VIENNA SYMPHONIC LIBRARY

Vienna Instruments
Brass I
Mapping Documentation

Trumpet in C
Horn
Tenor Trombone
Tuba

Trumpet ensemble (3 players)
Horn ensemble (4 players)
Trombone ensemble (3 players)

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Introduction

Welcome to the Vienna Symphonic Library's Brass I. This document contains the mapping information for this Vienna Instruments Collection. You will find in it a comprehensive survey of the articulations/Patches for the Collection's Standard and Extended contents, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary.

Major and minor runs are always mapped to the keys of their scale, as are **arpeggios** to the keys of the broken chord played. **Grace notes** and **mordents** are mapped to their target note, i.e., the note the articulation ends with. Due to their nature, all **upward and downward articulations** (e.g., fixed glissandos and octave runs) have different mapping ranges – the upward movements ending the involved interval below the Patch's upper mapping range, while downward movements end the interval above its lower mapping range. (Please note that not all of the articulations mentioned above may be contained in your Collection.)

Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

A/B switching normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo. However, some bass instruments go below that range so that the A/B keys have to be adapted accordingly.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

Speed controller switches naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller settings in the **Map Control** tab of the *Vienna Instruments* player's Advanced View, and save the result in your Custom Matrix folder.

Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes (VI: 1–12; VI PRO: 1–127) instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes. Vienna Instruments PRO also allows you to define a MIDI Control for Preset keyswitching.

Library updates

If you purchased your Instrument Collection via download or on the *Vienna Hard Drive*, all previous library updates will already be included; if you own a DVD Collection, you can download the updates from your personal User Area. A general description of *Vienna Instruments PRO 2* Matrices and Presets included in these updates can be found in the Appendix "Vienna Instruments PRO 2 Matrices and Presets" on page 247.

Articulations

Instrument/group	Level 1 (Standard) content	Level 2 (Extended) content
52 Trumpet-C		
01 SHORT + LONG NOTES	Staccato Portato short Sustained with light and without vibrato	Portato medium, normal, marcato, and with soft attack Portato long, with light and strong vibrato, normal and marcato; without vibrato, normal, marcato, and with soft attack Sustained, with strong and progressive vibrato
02 DYNAMICS	Crescendo-diminuendo with vibrato, 4 and 8 sec. Fortepiano, sforzato	Light crescendo and diminuendo without vibrato, 1.5, 2, 3, 4, and 6 sec. Medium crescendo and diminuendo with and without vibrato, 1.5 (no vib.), 2, 3, 4, and 6 sec. Strong crescendo and diminuendo with vibrato, 3 and 6 sec.; without vibrato, 2, 3, 4, and 6 sec. Crescendo-diminuendo without vibrato, 4, 6, and 8 sec. Sforzatissimo
03 FLATTER + TRILLS	Flutter tonguing, normal and crescendo Trills, minor and major 2nd, fast	Trills, minor and major 2nd, slow and accelerando
10 PERF INTERVAL	Legato without vibrato	Legato without vibrato, sustain crossfading Legato with vibrato, normal and with sustain crossfading Marcato
11 PERF INTERVAL FAST	Legato	Marcato
12 PERF TRILL		Trills, legato, minor to major 2nd
13 PERF REPETITION	Legato slow Portato Staccato slow	Legato fast Staccato fast Dynamics for all repetitions
14 FAST REPETITION		Staccato, 9 repetitions, 140–170, 190, and 210 BPM Normal and dynamics
15 UPBEAT REPETITION		1 upbeat, 90–140, 160, and 180 BPM 2 and 3 upbeats, 90–140, 160, 180, and 200 BPM
16 GRACE NOTES		Grace notes, minor and major 2nd, up and down
17 SCALE RUNS		Octave runs, legato Major, C to B key, up and down
18 ARPEGGIOS		Arpeggios, staccato Diminished, major and minor from C to B key Up and down, 2 speeds for all
19 MORDENTS		Mordents, legato, up and down 6 variations each

Instrument/group	Level 1 (Standard) content	Level 2 (Extended) content
52 Trumpet-C mute		
01 SHORT + LONG NOTES	Staccato Portato short Sustained with and without vibrato	Portato medium Portato long with vibrato Sustained with progressive vibrato
02 DYNAMICS	Crescendo-diminuendo with vibrato, 2 and 5 sec. Fortepiano and sforzato without vibrato	Medium crescendo and diminuendo with vibrato, 2, 3, and 4 sec. Medium crescendo and diminuendo without vibrato, 2, 3, 4, and 6 sec. Strong crescendo and diminuendo without vibrato, 2, 3, 4, and 6 sec. pfp with vibrato, 9 sec.; without vibrato, 2, 3, 4, and 5 sec. Fortepiano, sforzato, and sforzatissimo with vibrato; sforzatissimo without vibrato
03 FLATTER + TRILLS	Flutter tonguing normal and crescendo Trills normal, minor and major 2nd	Trills dynamics, minor and major 2nd
10 PERF INTERVAL		Legato, without and with vibrato Marcato
11 PERF INTERVAL FAST		Legato Marcato
12 PERF TRILL		Trills, legato, minor to major 2nd
13 PERF REPETITION		Legato Portato slow and fast Staccato slow and fast Normal and dynamics
14 FAST REPETITION		Staccato, 9 repetitions, 140–170, and 190 BPM Normal and dynamics
15 UPBEAT REPETITION		1–3 upbeats, 90–140, 160, 180, and 200 BPM
54 Horn-Vienna		
01 SHORT + LONG NOTES	Staccato Portato short Sustained with and without vibrato	Portato short, soft attack Portato medium, normal and soft attack Portato long, with and without vibrato, marcato, and blared Sustained, blared
02 DYNAMICS	Crescendo-diminuendo without vibrato, 6 (var. 1) and 8 sec. Fortepiano, sforzato	Light crescendo and diminuendo without vibrato, 1, 1.5, 2, 3, 4, and 6 sec. Medium crescendo and diminuendo with vibrato, 4 and 6 sec.; without vibrato, 1, 1.5, 2, 3, 4, and 6 sec. Strong crescendo and diminuendo without vibrato, 2, 3, 4, and 6 sec. Crescendo-diminuendo without vibrato, 6 sec. (var. 2) Sforzatissimo
03 FLATTER + TRILLS	Flutter tonguing normal and crescendo Trills, minor and major 2nd	Lip trills
04 STOPPED		Staccato Portato medium and long Sustained Crescendo and diminuendo, 1, 1.5, 2, 3, 4, and 6 sec. Fortepiano, sforzato, and sforzatissimo
10 PERF INTERVAL	Legato without vibrato, normal and with sustain crossfading	Legato with vibrato, sustain crossfading Marcato

Instrument/group	Level 1 (Standard) content	Level 2 (Extended) content
11 PERF INTERVAL FAST	Legato	Marcato
12 PERF TRILL		Trills, legato, minor to major 2nd
13 PERF REPETITION	Legato medium Portato Staccato fast	Legato slow and fast Staccato slow
14 FAST REPETITION		Staccato, 9 repetitions, 150 to 190 BPM Normal and dynamics
15 UPBEAT REPETITION		1 upbeat, 90–140, 160, and 180 BPM 2 and 3 upbeats, 90–140, 160, 180, and 200 BPM
16 GRACE NOTES		Grace notes, minor and major 2nd, up and down
17 GLISSANDI		Performance glissandos, minor 3rd to octave, fast, up and down; slow, up Fixed glissandos, 4th to octave, slow, up and down; fast, up
56 Tenor trombone		
01 SHORT + LONG NOTES	Staccato Portato short Sustained with light and without vibrato	Portato short, soft attack Portato medium, normal and soft attack, and marcato Portato long with and without vibrato, soft attack, and marcato Sustained with progressive and strong vibrato
02 DYNAMICS	Crescendo-diminuendo without vibrato, 6 sec. Fortepiano, sforzato	Light crescendo and diminuendo with vibrato, 1.5, 2, 3, and 4 sec.; without vibrato, 1, 1.5, 2, 3, 4, and 6 sec. Medium crescendo and diminuendo with and without vibrato, 1.5 (no vib.), 2, 3, 4, and 6 sec. Strong crescendo and diminuendo with vibrato, 4 sec.; without vibrato, 2, 3, 4, and 6 sec. Sforzatissimo
03 FLATTER	Flutter tonguing, normal and crescendo	
10 PERF INTERVAL	Legato without vibrato	Legato without vibrato, sustain crossfading Legato with vibrato, normal and with sustain crossfading Marcato
11 PERF INTERVAL FAST	Legato	Marcato
12 PERF TRILL		Trills, legato, minor 2nd to major 3rd
13 PERF REPETITION	Legato Portato Staccato fast	Staccato slow Dynamics for all repetitions
14 FAST REPETITION		Staccato, 9 repetitions, 150 to 190 BPM
		Normal and dynamics
15 UPBEAT REPETITION		1 and 2 upbeats, 80–140, 160, 180, 200, and 220 BPM 3 upbeats, 80–140, 160, and 180 BPM
16 GRACE NOTES		Grace notes, minor and major 2nd, up and down

Instrument/group	Level 1 (Standard) content	Level 2 (Extended) content
17 GLISSANDI		Performance glissandos, fast and slow, minor 2nd to diminished 5th Fixed glissandos, fast, minor 2nd to diminished 5th, up and down Fixed glissandos, slow, minor 3rd to diminished 5th, up and down
18 ARPEGGIOS		Arpeggios, staccato Diminished, major and minor from C to B key Up and down, 2 speeds for all
56 Tenor trombone - mute A		
01 SHORT + LONG NOTES	Staccato Portato short Sustained with progressive and without vibrato	Portato medium Portato long with vibrato
02 DYNAMICS	Crescendo-diminuendo without vibrato, 2 and 4 sec. Fortepiano, sforzato	Crescendo and diminuendo with and without vibrato, 1.5, 2, 3, 4, and 6 (no vib.) sec. Crescendo-diminuendo without vibrato, 3 sec. Sforzatissimo
03 FLATTER	Flutter tonguing	
10 PERF INTERVAL		Legato, marcato
11 PERF REPETITION		Legato Portato Staccato Normal and dynamics
12 FAST REPETITION		Staccato, 9 repetitions, 140–190 BPM Normal and dynamics
13 UPBEAT REPETITION		1 upbeat, 90–140 BPM 2 and 3 upbeats, 90–140, 160, and 180 BPM
56 Tenor trombone - mute B		
01 SHORT + LONG NOTES	Staccato Portato short Sustained with progressive and without vibrato	Portato medium
02 DYNAMICS	Crescendo-diminuendo without vibrato, 2 and 4 sec. Fortepiano, sforzato	Crescendo and diminuendo with and without vibrato, 1.5, 2, 3, and 4 sec. Crescendo-diminuendo without vibrato, 3 sec. Sforzatissimo
03 FLATTER	Flutter tonguing, normal and crescendo	
10 PERF INTERVAL		Legato Marcato
11 PERF REPETITION	Legato Portato Staccato	Dynamics for all repetitions
12 FAST REPETITION		Staccato, 9 repetitions, 140–190 BPM Normal and dynamics
13 UPBEAT REPETITION		1–3 upbeats, 90–140, 160, and 180 BPM

Instrument/group	Level 1 (Standard) content	Level 2 (Extended) content
59 Tuba		
01 SHORT + LONG NOTES	Staccato Portato medium Sustained with vibrato var. 1, and without vibrato	Portato medium, soft and hard attack Portato long with light and strong vibrato; without vibrato, soft and hard attack Sustained with vibrato, var. 2
02 DYNAMICS	Crescendo-diminuendo without vibrato, 4 sec. Fortepiano, sforzato	Light crescendo and diminuendo without vibrato, 1, 1.5, 2, 3, and 4 sec. Medium crescendo and diminuendo with and without vibrato, 2, 3, 4, and 6 sec. Strong crescendo and diminuendo without vibrato, 2, 3, 4, and 6 sec. Sforzatissimo
03 FLATTER + TRILLS	Flutter tonguing normal and crescendo Trills, minor and major 2nd	Trills dynamics
04 MUTE BASIC		Staccato Portato medium and long Sustained Crescendo and diminuendo, 2, 3, and 4 sec. Sforzato Flutter tonguing, normal and crescendo
10 PERF INTERVAL	Legato, without vibrato	Legato, without and with vibrato, sustain crossfading
11 PERF INTERVAL FAST	Legato	
12 PERF REPETITION	Legato Portato slow Staccato slow	Portato fast Staccato fast Legato dynamics Portato and staccato crescendo
13 FAST REPETITION		Staccato, 9 repetitions, 140 to 190 BPM Normal and crescendo
14 UPBEAT REPETITION		1–2 upbeats, 80–140 BPM 3 upbeats, 80–140, and 160 BPM
15 GRACE NOTES		Grace notes, minor and major 2nd, up and down
63 Trumpets - a3		
01 SHORT + LONG NOTES	Staccato Portato short Sustained with and without vibrato	Portato medium and long Sustained marcato, tuning in, rips, and falls
02 DYNAMICS	Crescendo-diminuendo, 2 and 4 sec. Fortepiano, sforzato	Medium crescendo and diminuendo, 1.5, 2, 3, 4, and 6 sec. Strong crescendo and diminuendo, 2, 3, 4, and 6 sec. Crescendo-diminuendo, 3 and 6 sec. Sforzatissimo
03 FLATTER + TRILLS	Flutter tonguing normal and crescendo Trills normal, minor and major 2nd	Trills dynamics, minor and major 2nd
10 PERF INTERVAL	Legato, without vibrato	Legato, with vibrato Legato, tuning attack Marcato
11 PERF INTERVAL FAST	Legato	Marcato
12 PERF TRILL		Trills, legato, minor to major 2nd
13 PERF REPETITION	Legato slow Portato fast Staccato fast	Legato fast Portato slow Staccato slow Dynamics for all repetitions

Instrument/group	Level 1 (Standard) content	Level 2 (Extended) content
14 PERF UPBEAT REPETITION		1 and 2 upbeats Slow, medium, and fast Normal and dynamics
15 FAST REPETITION		Staccato, 9 repetitions, 150 to 190 BPM Normal and dynamics
16 UPBEAT REPETITION		1 upbeat, 80–140 BPM 2–3 upbeats, 80–140, 160, and 180 BPM
17 SCALE RUNS		Octave runs, legato Major and minor, C to B key, chromatic and whole tone Up and down
18 ARPEGGIOS		Arpeggios, staccato Diminished, major and minor from C to B key Up and down, 2 speeds for all
19 FALL RELEASE		Sustained with and without vibrato; marcato; tuning attack; rips Legato interval performance without and with vibrato; tuning attack Marcato interval performance
63 Trumpets - a3 mute		
01 SHORT + LONG NOTES	Staccato Portato short Sustained	Portato medium
02 DYNAMICS	Crescendo-diminuendo, 2 and 4 sec. Fortepiano, sforzato	Strong crescendo and diminuendo, 2, 3, 4, and 6 sec. Crescendo-diminuendo, 3 and 6 sec. Sforzatissimo
03 FLATTER	Flutter tonguing normal and crescendo	
10 PERF INTERVAL		Legato Marcato
11 PERF REPETITION		Legato Portato Staccato slow and fast Normal and dynamics
12 FAST REPETITION		Staccato, 9 repetitions, 140 to 190 BPM Normal and dynamics
13 UPBEAT REPETITIONS		1–3 upbeats, 90–140, 160, 180, and 200 BPM
64 Horns - a4		
01 SHORT + LONG NOTES	Staccato Portato short Sustained, normal and marcato	Portato medium and long Sustained, blared
02 DYNAMICS	Crescendo-diminuendo, 4 and 6 sec. Fortepiano, sforzato	Medium crescendo and diminuendo, 1.5, 2, 3, 4, and 6 sec. Strong crescendo and diminuendo, 3, 4, and 6 sec. Sforzatissimo
03 FLATTER	Flutter tonguing normal and crescendo	
10 PERF INTERVAL	Legato	Legato with sustain crossfading Marcato
11 PERF INTERVAL FAST	Legato	Marcato
12 PERF TRILL		Trills, legato, minor to major 2nd

Instrument/group	Level 1 (Standard) content	Level 2 (Extended) content
13 PERF REPETITION	Legato slow Portato slow Staccato slow	Legato fast Portato fast Staccato fast Dynamics for all repetitions
14 PERF UPBEAT REPETITION		1 and 2 upbeats, slow and fast, normal and dynamics
15 FAST REPETITION		Staccato, 9 repetitions, 150 to 190 BPM Normal and dynamics
16 UPBEAT REPETITION		1 upbeat, 80–130 BPM 2–3 upbeats, 80–140, 160, and 180 BPM
17 ARPEGGIOS		Arpeggios, staccato Diminished, major and minor from C to B key Up and down, 2 speeds for all
18 GLISSANDI		Performance glissandos, minor 3rd to octave Fixed glissandos, 4th to octave, up and down
64 Horns - a4 stopped		
01 SHORT + LONG NOTES		Staccato Sustained
02 DYNAMICS		Medium crescendo and diminuendo, 1.5 and 2 sec. Strong crescendo and diminuendo, 3 and 4 sec. Fortepiano, sforzato, sforzatissimo
10 PERF INTERVAL		Legato, legato with sustain crossfading
11 PERF REPETITION		Legato Portato Staccato Normal and dynamics
12 FAST REPETITION		Staccato, 9 repetitions, 140 to 190 BPM Normal and dynamics
13 UPBEAT REPETITION		1–3 upbeats, 90–140 BPM
66 Trombones - a3		
01 SHORT + LONG NOTES	Staccato short Portato short Sustained, normal and marcato	Staccato medium Portato medium and long
02 DYNAMICS	Crescendo-diminuendo, 4 and 6 sec. Fortepiano, sforzato	Medium crescendo and diminuendo, 1.5, 2, 3, 4, and 6 sec. Strong crescendo and diminuendo, 2, 3, 4, and 6 sec. Crescendo-diminuendo, 8 and 10 sec. Sforzatissimo
03 FLATTER	Flutter tonguing normal and crescendo	
04 CLUSTER		Staccato and sustained Dynamics, 1.5 and 4 sec., sforzato Repetition performances, legato, normal and dynamics
10 PERF INTERVAL	Legato	Legato with sustain crossfading Marcato
11 PERF INTERVAL FAST	Legato	Marcato
12 PERF TRILL		Trills, legato, minor to major 2nd

Instrument/group	Level 1 (Standard) content	Level 2 (Extended) content
13 PERF REPETITION	Legato slow Portato slow Staccato slow	Legato fast Portato fast Staccato fast Dynamics for all repetitions
14 PERF UPBEAT REPETITION		1 and 2 upbeats, slow, medium, and fast Normal and dynamics
15 FAST REPETITION		Staccato, 9 repetitions, 140 to 180 BPM Normal and dynamics
16 UPBEAT REPETITION		1 upbeat, 80–140 BPM 2–3 upbeats, 80–140, 160, and 180 BPM
17 ARPEGGIOS		Arpeggios, staccato Diminished, major and minor from C to B key Up and down, 2 speeds for all
18 GLISSANDI		Performance glissandos, minor 2nd to diminished 5th Fixed glissandos, minor 2nd to diminished 5th, up and down
66 Trombones - a3 mute		
01 SHORT + LONG NOTES	Staccato Portato short Sustained	Portato medium
02 DYNAMICS	Crescendo-diminuendo, 2 and 4 sec. Fortepiano, sforzato	Strong crescendo and diminuendo, 2, 3, 4, and 6 sec. Crescendo-diminuendo, 3 and 6 sec. Sforzatissimo
03 FLATTER	Flutter tonguing normal and crescendo	
10 PERF INTERVAL		Legato Marcato
11 PERF REPETITION		Legato Portato Staccato slow and fast Normal and dynamics
12 FAST REPETITION		Staccato, 9 repetitions, 140 to 190 BPM
13 UPBEAT REPETITION		1 upbeat, 90–150 BPM 2 and 3 upbeats, 90–140, 160, and 180 BPM

Abbreviations

Instruments

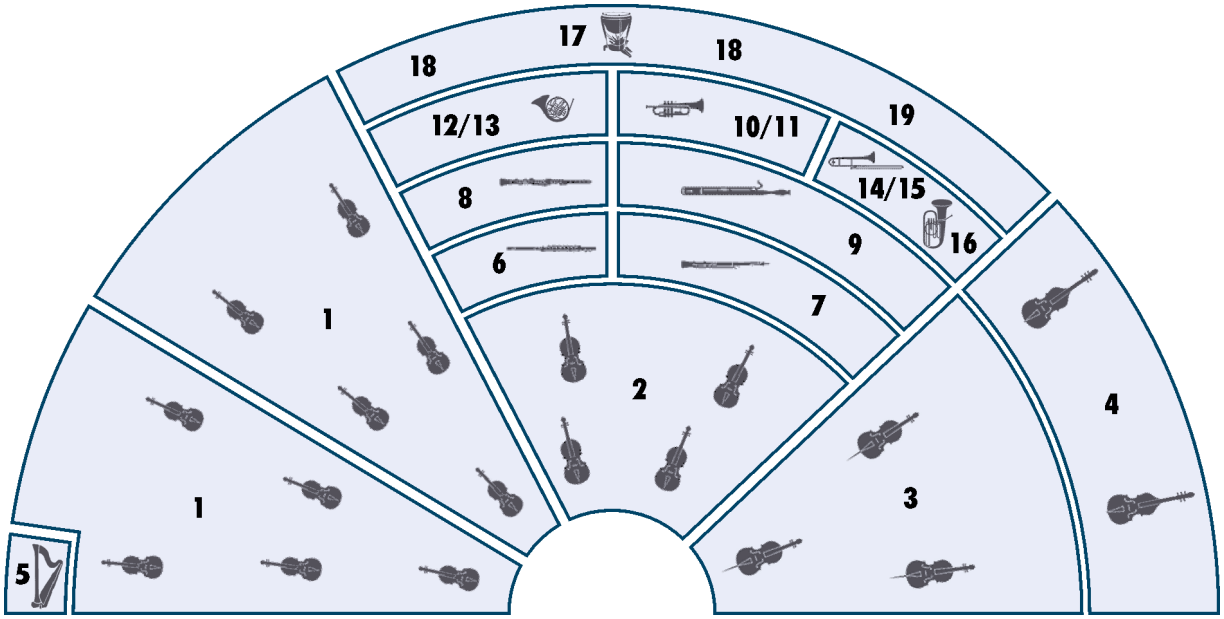
Abbreviation	English	German
TrC	Trumpet in C	Trompete in C
Tr-3	Trumpet ensemble (3 players)	
HO	French Horn	Horn
HO-4	Horn ensemble (4 players)	
TTB	Tenor trombone	Tenorposaune
TB-3	Trombone ensemble (3 players)	
TU	Tuba	Tuba

Articulations and other abbreviations

Abbreviation	Meaning
+	faster articulation (runs and arpeggios)
150, 160, …	150, 160, … BPM (beats per minute)
1s, 2s, …	tone length 1 sec., 2 sec., …
acc	accelerando
all	combination of all Patches of a category
arp	arpeggio
blare	“blared” tones (horn)
cre	crescendo
dim	diminuendo
dm	diminished (arpeggios)
dyn	dynamics (crescendo and diminuendo)
dyn5, dyn9	dynamics, 5/9 repetitions
fa	fast
faT	fast triplets
fA	fast attack
fA_auto	attack automation (normal/fast attack)
fast-rep	fast repetitions
flatter	flutter tonguing
fx	effect sound
gliss	glissando
hA	hard attack
leg	legato
li	light
lo	long
ma	major
marc	marcato
me	medium
mi	minor
mord	mordent
mu	muted
muA, muB	muted, variation A/B
nA	normal attack
noVib	without vibrato
perf-rep	repetition performance
por	portato
run	octave run
sA	soft attack
sl	slow
sta, stac	staccato
sto	stopped (horns)
str	strong
sus	sustained
T	triplets
tune	“tuning in” articulation
UB	upbeat
UB-a1, -a2	1, 2 upbeats
v1, v2 …	1st, 2nd, … variation
Vib	with (medium) vibrato
Vib-progr	progressive vibrato
XF	cell crossfade Matrix

The orchestra

There are several ways of setting up an orchestra, depending on the era of the piece played, the type of the piece and the instruments it requires, and even on the preference of the conductor. The figure below shows one of the more common setups, which can be taken as a guideline for mixing a composition, properly positioning the instruments in the stereo field and adding reverb according to the size of the concert hall you want your piece to be played in.



1 1st and 2nd violin
2 Viola
3 Cello
4 Double bass
5 Harp

6 Concert flute, piccolo
7 Oboe, English horn
8 Clarinet, bass clarinet
9 Bassoon, contrabassoon
10/11 Trumpet
12/13 Horn
14/15 Trombone
16 Tuba
17 Timpani
18 Drums, cymbals
19 other percussion instruments

Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

52 Trumpet-C

Description

The trumpet is a brass wind instrument with a cup shaped mouthpiece. Along with the trumpet in Bb, the trumpet in C is most commonly used today.

In orchestral works, between two and four trumpets are usually called for today.

Range and notation

The trumpet in C has a standard range from F#3–C6 (in jazz up to F6 and higher).

Music for modern trumpets is written in treble clef. The trumpet in C is a non-transposing instrument, the sound is as written.

Sound characteristics

Metallic, bright (but also dark in the lower register), intense, heroic, brilliant, powerful and stately.

In its low register the trumpet is well-suited as a metallic, dark, precise and agile middle voice in the orchestra and as such offers an effective contrast to the soft horns in the same register.

In the middle register the instrument's sound comes into its own: brilliant, full, rounded, magnificent. A metallic brilliance that pervades the entire orchestra and cannot be achieved by any other instrument.

The highest notes sound bright, shrill, penetrating and vivid.

Combination with other instruments

The trumpet blends well with other brass instruments. In chords the trumpet and the trombone produce the typical brass sound.

In combination with the woodwinds and strings dynamic levels must be balanced carefully to ensure that the trumpet doesn't overrule the other instruments. Trumpets and clarinets in unison produce a clearer, brighter sound than any other combination.

Patches

01 SHORT + LONG NOTES — Range: E3–C#6

Single notes

Level 1: Staccato
Portato short
Sustained with light and without vibrato

Level 2: Portato medium, normal, marcato, and with soft attack
Portato long, with light and strong vibrato, normal and marcato; without vibrato, normal, marcato, and with soft attack
Sustained, with strong and progressive vibrato

01 TrC_staccato — Samples: 282 — RAM: 17 MB — Level 1

Staccato
5 velocity layers: 0–28 pp; 29–55 p; 56–88 mf; 89–108 f; 109–127 ff
4 Alternations

02 TrC_portato_short — Samples: 304 — RAM: 19 MB — Level 1

Portato, short
5 velocity layers: 0–28 p; 29–55 mp; 56–88 mf; 89–108 f; 109–127 ff
4 Alternations

03 TrC_portato_medium — Samples: 304 — RAM: 19 MB — Level 2

Portato, medium
5 velocity layers: 0–28 pp; 29–55 p; 56–88 mf; 89–108 f; 109–127 ff
4 Alternations

04 TrC_portato_medium_marc — Samples: 248 — RAM: 15 MB — Level 2

Portato, medium, marcato
4 velocity layers: 0–55 mp; 56–88 mf; 89–108 f; 109–127 ff
4 Alternations

05 TrC_portato_medium_soft — Samples: 242 — RAM: 15 MB — Level 2

Portato, medium, soft
4 velocity layers: 0–55 pp; 56–88 mp; 89–108 mf; 109–127 f
4 Alternations

06 TrC_portato_long-norm_Vib-light — Samples: 245 — RAM: 15 MB — Level 2

Portato, long, normal, with light vibrato
5 velocity layers: 0–28 p; 29–55 mp; 56–88 mf; 89–108 f; 109–127 ff
Release samples
2 Alternations

07 TrC_portato_long-marc_Vib-light — Samples: 177 — RAM: 11 MB — Level 2

Portato, long, marcato, with light vibrato
3 velocity layers: 0–55 mp; 56–108 mf; 109–127 f
Release samples
2 Alternations

08 TrC_portato_long-norm_Vib-strong **Samples: 177** **RAM: 11 MB** **Level 2**

Portato, long, normal, with strong vibrato
3 velocity layers: 0–55 mp; 56–108 mf; 109–127 f
Release samples
2 Alternations

09 TrC_portato_long-marc_Vib-strong **Samples: 177** **RAM: 11 MB** **Level 2**

Portato, long, marcato, with strong vibrato
3 velocity layers: 0–88 mf; 89–108 f; 109–127 ff
Release samples
2 Alternations

10 TrC_portato_long-norm_noVib **Samples: 245** **RAM: 15 MB** **Level 2**

Portato, long, normal, without vibrato
5 velocity layers: 0–28 pp; 29–55 p; 56–88 mf; 89–108 f; 109–127 ff
Release samples
2 Alternations

11 TrC_portato_long-marc_noVib **Samples: 217** **RAM: 13 MB** **Level 2**

Portato, long, marcato, without vibrato
4 velocity layers: 0–55 p; 56–88 mf; 89–108 f; 109–127 ff
Release samples
2 Alternations

12 TrC_portato_long-soft_noVib **Samples: 214** **RAM: 13 MB** **Level 2**

Portato, long, soft, without vibrato
4 velocity layers: 0–55 pp; 56–88 p; 89–108 mf; 109–127 f
Release samples
2 Alternations

21 TrC_sus_Vib-light **Samples: 244** **RAM: 15 MB** **Level 1**

Sustained, with light vibrato
5 velocity layers: 0–28 pp; 29–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples

22 TrC_sus_Vib-strong **Samples: 175** **RAM: 10 MB** **Level 2**

Sustained, with strong vibrato
3 velocity layers: 0–55 mp; 56–108 mf; 109–127 f
Release samples

23 TrC_sus_Vib-progr **Range: E3–D6** **Samples: 214** **RAM: 13 MB** **Level 2**

Sustained, progressive vibrato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples

24 TrC_sus_noVib **Range: E3–D6** **Samples: 270** **RAM: 16 MB** **Level 1**

Sustained, without vibrato
6 velocity layers: 0–28 pp; 29–55 p; 56–70 mp; 71–88 mf; 89–108 f; 109–127 ff
Release samples

02 DYNAMICS Range: E3–C#6

Dynamics

Level 1: Crescendo-diminuendo with vibrato, 4 and 8 sec.
Fortepiano, sforzato

Level 2: Light crescendo and diminuendo without vibrato, 1.5, 2, 3, 4, and 6 sec.
Medium crescendo and diminuendo with and without vibrato, 1.5 (no vib.), 2, 3, 4, and 6 sec.
Strong crescendo and diminuendo with vibrato, 3 and 6 sec.; without vibrato, 2, 3, 4, and 6 sec.
Crescendo-diminuendo without vibrato, 4, 6, and 8 sec.
Sforzatissimo

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01 TrC_dyn-li_noVib_1'5s **Samples: 186** **RAM: 11 MB** **Level 2**

Light crescendo and diminuendo, without vibrato, 1.5 sec.
3 velocity layers: 0–55 p-mp/mp-p; 56–108 mp-mf/mf-mp; 109–127 mf-f/f-mf
AB switch: crescendo/diminuendo

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02 TrC_dyn-li_noVib_2s **Samples: 186** **RAM: 11 MB** **Level 2**

Light crescendo and diminuendo, without vibrato, 2 sec.
3 velocity layers: 0–55 p-mp/mp-p; 56–108 mp-mf/mf-mp; 109–127 mf-f/f-mf
AB switch: crescendo/diminuendo

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03 TrC_dyn-li_noVib_3s **Samples: 180** **RAM: 11 MB** **Level 2**

Light crescendo and diminuendo, without vibrato, 3 sec.
3 velocity layers: 0–55 p-mp/mp-p; 56–108 mp-mf/mf-mp; 109–127 mf-f/f-mf
AB switch: crescendo/diminuendo

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04 TrC_dyn-li_noVib_4s **Samples: 180** **RAM: 11 MB** **Level 2**

Light crescendo and diminuendo, without vibrato, 4 sec.
3 velocity layers: 0–55 p-mp/mf-p; 56–108 mp-mf/f-mf; 109–127 mf-f/ff-f
AB switch: crescendo/diminuendo

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05 TrC_dyn-li_noVib_6s **Samples: 180** **RAM: 11 MB** **Level 2**

Light crescendo and diminuendo, without vibrato, 6 sec.
3 velocity layers: 0–55 p-mp/mf-p; 56–108 mp-mf/f-mf; 109–127 mf-f/ff-f
AB switch: crescendo/diminuendo

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11 TrC_dyn-me_Vib_2s **Samples: 118** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, with vibrato, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/f-mf
AB switch: crescendo/diminuendo

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12 TrC_dyn-me_Vib_3s **Samples: 118** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, with vibrato, 3 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-f
AB switch: crescendo/diminuendo

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13 TrC_dyn-me_Vib_4s **Samples: 118** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, with vibrato, 4 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-f
AB switch: crescendo/diminuendo

14 TrC_dyn-me_Vib_6s **Samples: 118** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, with vibrato, 6 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

21 TrC_dyn-me_noVib_1'5s **Samples: 118** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, without vibrato, 1.5 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/f-mf
AB switch: crescendo/diminuendo

22 TrC_dyn-me_noVib_2s **Samples: 118** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, without vibrato, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/f-mf
AB switch: crescendo/diminuendo

23 TrC_dyn-me_noVib_3s **Samples: 118** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, without vibrato, 3 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/f-mf
AB switch: crescendo/diminuendo

24 TrC_dyn-me_noVib_4s **Samples: 121** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, without vibrato, 4 sec.
2 velocity layers: 0–88 p-mf/mf-pp; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

25 TrC_dyn-me_noVib_6s **Samples: 121** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, without vibrato, 6 sec.
2 velocity layers: 0–88 p-mf/mf-pp; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

31 TrC_dyn-str_Vib_3s **Samples: 56** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, with vibrato, 3 sec.
1 velocity layer: 0–127 pp-ff/ff-pp
AB switch: crescendo/diminuendo

32 TrC_dyn-str_Vib_6s **Samples: 59** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, with vibrato, 6 sec.
1 velocity layer: 0–127 pp-ff/ff-pp
AB switch: crescendo/diminuendo

41 TrC_dyn-str_noVib_2s **Samples: 62** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, without vibrato, 2 sec.
1 velocity layer: 0–127 p-ff/ff-pp
AB switch: crescendo/diminuendo

42 TrC_dyn-str_noVib_3s **Samples: 62** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, without vibrato, 3 sec.
1 velocity layer: 0–127 p-ff/ff-pp
AB switch: crescendo/diminuendo

43 TrC_dyn-str_noVib_4s **Samples: 56** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, without vibrato, 4 sec.
1 velocity layer: 0–127 p-f/f-p
AB switch: crescendo/diminuendo

44 TrC_dyn-str_noVib_6s **Samples: 56** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, without vibrato, 6 sec.
1 velocity layer: 0–127 p-f/f-p
AB switch: crescendo/diminuendo

51 TrC_pfp_Vib_4s **Samples: 56** **RAM: 3 MB** **Level 1**

Crescendo-diminuendo with vibrato, 4 sec.
2 velocity layers: 0–88 mp; 89–127 f

52 TrC_pfp_Vib_8s **Samples: 28** **RAM: 1 MB** **Level 1**

Crescendo-diminuendo with vibrato, 8 sec.
1 velocity layer

53 TrC_pfp_noVib_4s **Samples: 56** **RAM: 3 MB** **Level 2**

Crescendo-diminuendo without vibrato, 4 sec.
2 velocity layers: 0–88 mp; 89–127 f

54 TrC_pfp_noVib_6s **Samples: 59** **RAM: 3 MB** **Level 2**

Crescendo-diminuendo without vibrato, 6 sec.
2 velocity layers: 0–88 mp; 89–127 f

55 TrC_pfp_noVib_8s **Samples: 28** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo without vibrato, 8 sec.
1 velocity layer

61 TrC_fp **Samples: 28** **RAM: 1 MB** **Level 1**

Fortepiano
1 velocity layer
2 Alternations

62 TrC_sfz **Samples: 28** **RAM: 1 MB** **Level 1**

Sforzato
1 velocity layer
2 Alternations

63 TrC_sffz **Samples: 28** **RAM: 1 MB** **Level 2**

Sforzatissimo
1 velocity layer
2 Alternations

03 FLATTER + TRILLS — Range: E3–C#6

Flutter tonguing and trills
Level 1: Flutter tonguing, normal and crescendo
Trills, minor and major 2nd, fast
Level 2: Trills, minor and major 2nd, slow and accelerando

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01 TrC_flatter — **Samples: 108** **RAM: 6 MB** **Level 1**

Flutter tonguing
2 velocity layers: 0–88 p; 89–127 f
Release samples

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02 TrC_flatter_cre — **Samples: 28** **RAM: 1 MB** **Level 1**

Flutter tonguing, crescendo
1 velocity layer

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11 TrC_trill-slow_1 — **Samples: 124** **RAM: 7 MB** **Level 2**

Trills, slow, minor 2nd
2 velocity layers: 0–88 p; 89–127 f
Release samples

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12 TrC_trill-slow_2 — **Samples: 124** **RAM: 7 MB** **Level 2**

Trills, slow, major 2nd
2 velocity layers: 0–88 p; 89–127 f
Release samples

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13 TrC_trill-fast_1 — **Samples: 124** **RAM: 7 MB** **Level 1**

Trills, fast, minor 2nd
2 velocity layers: 0–88 p; 89–127 f
Release samples

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14 TrC_trill-fast_2 — **Range: E3–G#5** **Samples: 104** **RAM: 6 MB** **Level 1**

Trills, fast, major 2nd
2 velocity layers: 0–88 p; 89–127 f
Release samples

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15 TrC_trill-acc_1 — **Samples: 124** **RAM: 7 MB** **Level 2**

Trills accelerando, minor 2nd
2 velocity layers: 0–88 p; 89–127 f
Release samples

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16 TrC_trill-acc_2 — **Range: E3–G#5** **Samples: 104** **RAM: 6 MB** **Level 2**

Trills accelerando, major 2nd
2 velocity layers: 0–88 p; 89–127 f
Release samples

10 PERF INTERVAL Range: E3–C6

Interval performances
Level 1: Legato without vibrato
Level 2: Legato without vibrato, sustain crossfading
Legato with vibrato, normal and with sustain crossfading
Marcato

01 TrC_perf-legato_noVib — Samples: 724 — RAM: 45 MB — Level 1

Legato without vibrato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 TrC_perf-legato_noVib_sus — Samples: 811 — RAM: 50 MB — Level 2

Legato without vibrato
Sustain crossfading
Monophonic
4 velocity layers: Legato: 0–88 p; 89–127 f
Sustained: 0–55 p; 56–88 mp; 89–108 f; 109–127 ff
Release samples

03 TrC_perf-legato_Vib — Range: F#3–C6 — Samples: 574 — RAM: 35 MB — Level 2

Legato, with vibrato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

04 TrC_perf-legato_Vib_sus — Range: F#3–C6 — Samples: 631 — RAM: 39 MB — Level 2

Legato, with vibrato
Sustain crossfading
Monophonic
3 velocity layers: Legato: 0–88 p; 89–127 f
Sustained: 0–55 p; 56–108 mf; 109–127 ff
Release samples

05 TrC_perf-marcato — Samples: 786 — RAM: 49 MB — Level 2

Marcato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

11 PERF INTERVAL FAST — Range: E3–C6

Fast interval performances
Level 1: Legato
Level 2: Marcato

01 TrC_perf-legato_fa — Samples: 840 RAM: 52 MB Level 1

Legato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 TrC_perf-marcato_fa — Samples: 902 RAM: 56 MB Level 2

Marcato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

12 PERF TRILL — Range: E3–C6

Multi interval performances
Level 2: Trills, legato, minor to major 2nd

01 TrC_perf-trill — Samples: 1372 RAM: 85 MB Level 2

Performance trills, legato, minor to major 2nd
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

13 PERF REPETITION — Range: E3–C#6

Repetition performances
Level 1: Legato slow
Portato
Staccato slow
Level 2: Legato fast
Staccato fast
Dynamics for all repetitions

01 TrC_perf-rep_leg-sl — Samples: 235 RAM: 14 MB Level 1

Legato, slow
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

02 TrC_perf-rep_leg-fa — Samples: 235 RAM: 14 MB Level 2

Legato, fast
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

03 TrC_perf-rep_por — Samples: 423 RAM: 26 MB Level 1

Portato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

04 TrC_perf-rep_sta-sl **Samples: 423** **RAM: 26 MB** **Level 1**

Staccato, slow
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

05 TrC_perf-rep_sta-fa **Samples: 405** **RAM: 25 MB** **Level 2**

Staccato, fast
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

21 TrC_perf-rep_dyn5_leg-sl **Samples: 150** **RAM: 9 MB** **Level 2**

Legato dynamics, slow, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

22 TrC_perf-rep_dyn5_leg-fa **Samples: 150** **RAM: 9 MB** **Level 2**

Legato dynamics, fast, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

23 TrC_perf-rep_dyn9_por **Samples: 270** **RAM: 16 MB** **Level 2**

Portato dynamics, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

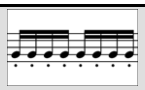
24 TrC_perf-rep_dyn9_sta-sl **Samples: 270** **RAM: 16 MB** **Level 2**

Staccato dynamics, slow, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

25 TrC_perf-rep_dyn9_sta-fa **Range: F#3–C#6** **Samples: 234** **RAM: 14 MB** **Level 2**

Staccato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

14 FAST REPETITION Range: F#3–C#6



Fast repetitions
Level 2: Staccato, 9 repetitions, 140–170, 190, and 210 BPM
Normal and dynamics

01 TrC_fast-rep_140 (150/160/170/190/210) **Samples: 168** **RAM: 10 MB** **Level 2**

Staccato repetitions, 140–170, 190, and 210 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

11 TrC_fast-rep_140_dyn (150/160/170/190/210) **Samples: 50** **RAM: 3 MB** **Level 2**

Staccato repetitions, dynamics, 140–170, 190, and 210 BPM
1 velocity layer
AB switch: crescendo/diminuendo

15 UPBEAT REPETITION

Upbeat repetitions
Level 2: 1 upbeat, 90–140, 160, and 180 BPM
2 and 3 upbeats, 90–140, 160, 180, and 200 BPM

15 UPBEAT REPETITION/A Single Upbeat Range: E3–C#6

01 TrC_UB-a1_90 (100/110/120/130/140/160/180) **Samples: 90** **RAM: 5 MB** **Level 2**

1 upbeat, 90–140, 160, and 180 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

15 UPBEAT REPETITION/B Double Upbeats Range: E3–C#6

01 TrC_UB-a2_90 (100/110/120/130/140/160/180/200) **Samples: 90** **RAM: 5 MB** **Level 2**

2 upbeats, 90–140, 160, 180, and 200 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

15 UPBEAT REPETITION/C Triple Upbeats Range: E3–C#6

01 TrC_UB-a3_90 (100/110/120/130/140/160/180/200) **Samples: 90** **RAM: 5 MB** **Level 2**

3 upbeats, 90–140, 160, 180, and 200 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

16 GRACE NOTES Range: E3–C#6

Phrases
Level 2: Grace notes
Minor and major 2nd
Up and down
Mapped to target note

01 TrC_grace-1 **Samples: 184** **RAM: 11 MB** **Level 2**

Grace notes, minor 2nd
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: up/down

02 TrC_grace-2 **Samples: 182** **RAM: 11 MB** **Level 2**

Grace notes, major 2nd
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: up/down

17 SCALE RUNS

Phrases
Level 2: Octave runs, legato
Major, C to B key
Up and down

01 TrC_run-leg_C-ma (through to B-ma) **Samples: 20** **RAM: 1 MB** **Level 2**

Octave runs, legato, 32nds at 120 BPM
C to B major
1 velocity layer: 0–127 f
AB switch: up/down

18 ARPEGGIOS

Phrases
Level 2: Arpeggios, staccato
Diminished, major and minor from C to B key
Up and down
2 speeds for all

18 ARPEGGIOS/Staccato diminished **Range: E3–D6**

01 TrC_arp-sta_dm **Samples: 64** **RAM: 4 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
Diminished
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS/Staccato diminished fast **Range: E3–D6**

01 TrC_arp-sta+_dm **Samples: 64** **RAM: 4 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
Diminished
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS/Staccato major

01 TrC_arp-sta_C-ma (through to B-ma) **Samples: 24** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
C to B major
Mapping (according to key, here for C major): C – base, E – 1st inversion, G – 2nd inversion
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS/Staccato major fast

01 TrC_arp-sta+_C-ma (through to B-ma) **Samples: 24** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
C to B major
Mapping (according to key, here for C major): C – base, E – 1st inversion, G – 2nd inversion
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS/Staccato minor

01 TrC_arp-sta_C-mi (through to B-mi) **Samples: 24** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
C to B minor
Mapping (according to key, here for C minor): C – base, D#/Eb – 1st inversion, G – 2nd inversion
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

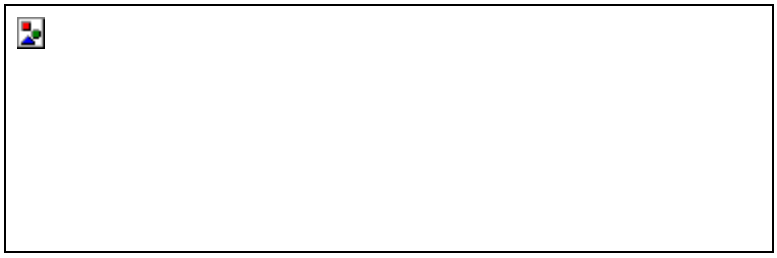
18 ARPEGGIOS/Staccato minor fast

01 TrC_arp-sta_C-mi+ (through to B-mi) **Samples: 24** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
C to B minor
Mapping (according to key, here for C minor): C – base, D#/Eb – 1st inversion, G – 2nd inversion
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

19 MORDENTS

Phrases
Level 2: Mordents, legato
Up and down
6 variations each
The samples are mapped to the target note



01 TrC_mord-leg_v1 **Range: A3–A#5** **Samples: 44** **RAM: 2 MB** **Level 2**

Single mordent, minor 2nd
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

02 TrC_mord-leg_v2 **Range: A3–B5** **Samples: 44** **RAM: 2 MB** **Level 2**

Single mordent, major 2nd
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

03 TrC_mord-leg_v3 **Range: A3–B5** **Samples: 44** **RAM: 2 MB** **Level 2**

Minor 2nd - minor 2nd
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

04 TrC_mord-leg_v4 **Range: A3–C6** **Samples: 44** **RAM: 2 MB** **Level 2**

Minor 2nd - major 2nd
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

05 TrC_mord-leg_v5 **Range: A3–C6** **Samples: 44** **RAM: 2 MB** **Level 2**

Major 2nd - minor 2nd
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

06 TrC_mord-leg_v6 **Range: A3–C#6** **Samples: 44** **RAM: 2 MB** **Level 2**

Major 2nd - major 2nd
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

98 RESOURCES

Resources
Level 1: Performance speed variations: Legato, slow
Level 2: Isolated dynamics repetitions: Legato slow and fast, portato, staccato
Single layer long notes

98 RESOURCES/01 Perf Rep dyn **Range: E3–C#6**

01 TrC_rep_cre5_leg-sl-1 (2/3/4/5) **Samples: 15** **RAM: 1 MB** **Level 2**

Extracted repetitions: Legato, slow, crescendo, 1st to 5th note
1 velocity layer

01 TrC_rep_dim5_leg-sl-1 (2/3/4/5) **Samples: 15** **RAM: 1 MB** **Level 2**

Extracted repetitions: Legato, slow, diminuendo, 1st to 5th note
1 velocity layer

02 TrC_rep_cre5_leg-fa-1 (2/3/4/5) **Samples: 15** **RAM: 1 MB** **Level 2**

Extracted repetitions: Legato, fast, crescendo, 1st to 5th note
1 velocity layer

02 TrC_rep_dim5_leg-fa-1 (2/3/4/5) **Samples: 15** **RAM: 1 MB** **Level 2**

Extracted repetitions: Legato, fast, diminuendo, 1st to 5th note
1 velocity layer

03 TrC_rep_cre9_por-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**

Extracted repetitions: Portato, crescendo, 1st to 9th note
1 velocity layer

03 TrC_rep_dim9_por-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**

Extracted repetitions: Portato, diminuendo, 1st to 9th note
1 velocity layer

04 TrC_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**

Extracted repetitions: Staccato, crescendo, 1st to 9th note
1 velocity layer

04 TrC_rep_dim9_sta-1 (2/3/4/5) **Samples: 15** **RAM: 1 MB** **Level 2**

Extracted repetitions: Staccato, diminuendo, 1st to 9th note
1 velocity layer

98 RESOURCES/02 Long Notes - Single Layer Range: E3–D6

01 TrC_sus_pp_noVib **Samples: 62** **RAM: 3 MB** **Level 2**

Sustained, pianissimo, without vibrato
1 velocity layer
Release samples

02 TrC_sus_p_noVib **Samples: 62** **RAM: 3 MB** **Level 2**

Sustained, piano, without vibrato
1 velocity layer
Release samples

03 TrC_sus_mp_noVib **Samples: 62** **RAM: 3 MB** **Level 2**

Sustained, mezzopiano, without vibrato
1 velocity layer
Release samples

04 TrC_sus_mf_noVib **Samples: 62** **RAM: 3 MB** **Level 2**

Sustained, mezzoforte, without vibrato
1 velocity layer
Release samples

05 TrC_sus_f_noVib **Samples: 62** **RAM: 3 MB** **Level 2**

Sustained, forte, without vibrato
1 velocity layer
Release samples

06 TrC_sus_ff_noVib **Samples: 62** **RAM: 3 MB** **Level 2**

Sustained, fortissimo, without vibrato
1 velocity layer
Release samples

98 RESOURCES/03 Perf Speed variation

01 TrC_perf-leg_slow **Range: E3–C6** **Samples: 755** **RAM: 47 MB** **Level 1**

Legato, slow
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 TrC Articulation Combi — Samples: 1511 RAM: 94 MB — Level 1

Single note articulations
Staccato, portato short, sustained with light and without vibrato, crescendo-diminuendo with vibrato 4 and 8 sec., fortepiano and sforzato, flutter tonguing normal and crescendo, fast trills half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
V1	stac	sus light vib.	pfp vib. 4s.	fp	flutter	trill fast half
V2	port. short	sus no vib.	pfp vib. 8s.	sfz	flutter cres.	trill fast whole

L1 TrC Perf-Legato Speed — Samples: 991 RAM: 61 MB — Level 1

Interval performances
Legato slow, normal without vibrato, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal	fast

L1 TrC Perf-Repetitions Combi — Samples: 1081 RAM: 67 MB — Level 1

Repetition performances
Legato slow
Portato
Staccato slow

Matrix switches: Vertical: Modwheel, 3 zones

	repetitions
V1	legato slow
V2	portato
V3	staccato slow

Matrix - LEVEL 2 A - Advanced

01 TrC Perf-Universal — Samples: 1889 RAM: 118 MB — Level 2

Interval performances
Legato slow, normal, and fast
Marcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones Vertical: Modwheel, 2 zones

	H1	H2	H3
legato	slow	normal	fast
marcato	normal	normal	fast

02 TrC Perf-Trill Speed

Samples: 1523 RAM: 95 MB **Level 2**

Multi interval performances
Legato and trills
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

03 TrC Short+Long notes

Samples: 1902 RAM: 118 MB **Level 2**

Single notes
Staccato, portato short and medium, portato long with light, strong, and without vibrato
Sustained with light, strong, progressive, and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1
V1	staccato	port. short	port.med.	port.long light vib.	sus. light vib.
V2	%	%	%	port.long strong vib.	sus. strong vib.
V3	%	%	%	port.long light vib.	sus. prog. vib.
V4	%	%	%	port.long no vib.	sus. no vib.

Matrix - LEVEL 2 B - Standard

11 TrC Perf-Legato Speed

Samples: 991 RAM: 61 MB **Level 2**

Interval performances
Legato slow, normal without vibrato, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal	fast

12 TrC Perf-Marcato Speed

Samples: 786 RAM: 49 MB **Level 2**

Interval performances
Marcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
marcato	normal	fast

13 TrC Short notes

Samples: 1371 RAM: 85 MB **Level 2**

Single notes
Staccato, portato short and medium, and portato long with light, strong, and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	staccato	port. short	port. medium	port.long light vib.	port.long strong vib.	port.long no vib.

14 TrC Long notes - All

Samples: 624 RAM: 39 MB Level 2

Single notes
Sustained with light, strong, progressive, and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
sustained	light vibrato	strong vibrato	prog. vibrato	no vibrato

15 TrC Dynamics - Small

Samples: 379 RAM: 23 MB Level 2

Dynamics
Medium crescendo and diminuendo with vibrato, 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.med. vib.	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

16 TrC Dynamics - Large

Samples: 1323 RAM: 82 MB Level 2

Dynamics
Medium crescendo and diminuendo with and without vibrato, 2, 3, 4, and 6 sec.
Strong crescendo and diminuendo without vibrato, 2, 3, 4, and 6 sec.
Crescendo-diminuendo without vibrato 4, 6, and 8 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 5 zones

	C1	C#1	D1	D#1
dyn.med. vib.	2 sec.	3 sec.	4 sec.	6 sec.
dyn.med. no vib.	2 sec.	3 sec.	4 sec.	6 sec.
dyn.str. no vib.	2 sec.	3 sec.	4 sec.	6 sec.
pfp no vib.	4 sec.	6 sec.	8 sec.	8 sec.
fp/sfz/sffz	fp	sfz	sffz	sffz

17 TrC Flatter

Samples: 136 RAM: 8 MB Level 2

Flutter tonguing
Normal, crescendo, and normal/crescendo with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal	crescendo	Cell XF

18 TrC Trills - slow

Samples: 248 RAM: 15 MB Level 2

Trills, slow: Half and whole tone

Matrix switches: Vertical: Modwheel, 2 zones

	trills slow
V1	half tone
V2	whole tone

19 TrC Trills - fast

Samples: 228 RAM: 14 MB Level 2

Trills, fast: Half and whole tone

Matrix switches: Vertical: Modwheel, 2 zones

	trills fast
V1	half tone
V2	whole tone

20 TrC Trills - accelerando

Samples: 228 RAM: 14 MB Level 2

Trills, accelerando: Half and whole tone

Matrix switches: Vertical: Modwheel, 2 zones

	trills accel.
V1	half tone
V2	whole tone

21 TrC Trills - All

Samples: 704 RAM: 44 MB Level 2

Trills slow, fast, and accelerando
Half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 2 zones

	C1	C#1	D1
half tone	slow	fast	accelerando
whole tone	slow	fast	accelerando

Matrix - LEVEL 2 C - Repetitions

31 TrC Perf-Repetitions - Combi

Samples: 1721 RAM: 107 MB Level 2

Repetition performances
Slow and fast legato, portato, slow and fast staccato

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	legato slow	legato fast	portato	staccato slow	staccato fast

32 TrC Perf-Repetitions - Speed

Samples: 1486 RAM: 92 MB Level 2

Repetition performances
Slow legato, portato, slow and fast staccato
Speed controller

Matrix switches: Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato slow	portato	staccato slow	staccato fast

33 TrC Fast-Repetitions

Samples: 654 RAM: 40 MB Level 2

Fast repetitions: Staccato, 140–170, 190, and 210 BPM

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	140	150	160	170	190	210

34 TrC Upbeats a1 — Samples: 711 RAM: 44 MB Level 2

Repetitions: 1 upbeat, 90–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G1

	C1	C#1	D1	D#1	E1	F1	F#1	G1
speed/BPM	90	100	110	120	130	140	160	180

35 TrC Upbeats a2 — Samples: 798 RAM: 49 MB Level 2

Repetitions: 2 upbeats, 90–140, 160, 180, and 200 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

36 TrC Upbeats a3 — Samples: 792 RAM: 49 MB Level 2

Repetitions: 3 upbeats, 90–140, 160, 180, and 200 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

37 TrC Upbeats all — Samples: 2301 RAM: 143 MB Level 2

Repetitions: 1–3 upbeats, 90–140, 160, 180, and 200 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
1 upbeat	90	100	110	120	130	140	160	180	180
2 upbeats	90	100	110	120	130	140	160	180	200
3 upbeats	90	100	110	120	130	140	160	180	200

Matrix - LEVEL 2 D - Scale+Phrase

41 TrC Scale runs-legato - Major — Samples: 112 RAM: 7 MB Level 2

Octave runs, legato, 32nds at 120 BPM, C to B major
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
legato maj.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

51 TrC Arpeggios-staccato - Major — Samples: 128 RAM: 8 MB Level 2

Arpeggios, staccato, 16ths at 120 BPM, C to B major
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

52 TrC Arpeggios-staccato - Major+

Samples: 128 **RAM: 8 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM, C to B major
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj. fast	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

53 TrC Arpeggios-staccato - Minor

Samples: 124 **RAM: 7 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM, C to B minor
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

54 TrC Arpeggios-staccato - Minor+

Samples: 124 **RAM: 7 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM, C to B minor
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min. fast	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

55 TrC Arpeggios-staccato - All

Samples: 316 **RAM: 19 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM, C to B major and minor, diminished
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
minor	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
diminished	%	%	%	%	%	%	%	%	%	%	%	%

56 TrC Arpeggios-staccato - All+

Samples: 316 **RAM: 19 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM, C to B major and minor, diminished
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
minor	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
diminished	%	%	%	%	%	%	%	%	%	%	%	%

61 TrC Mordents-legato

Samples: 264 **RAM: 16 MB** **Level 2**

Mordents, legato, var. 1 to 6
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
variation	mord. min.2nd	mord. maj.2nd	min.2nd - min.2nd	min.2nd - maj.2nd	maj.2nd - min.2nd	maj.2nd - maj.2nd

62 TrC Grace notes - All

Samples: 304 **RAM: 19 MB** **Level 2**

Grace notes, minor and major 2nd
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
interval	min. 2nd	maj. 2nd

Matrix - LEVEL 2 E - Keyswitch Vel

71 TrC Legato slow - cre5

Samples: 75 **RAM: 4 MB** **Level 2**

Slow legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 TrC Legato fast - cre5

Samples: 75 **RAM: 4 MB** **Level 2**

Fast legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

73 TrC Portato - cre9

Samples: 135 **RAM: 8 MB** **Level 2**

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 TrC Staccato - cre9

Samples: 135 **RAM: 8 MB** **Level 2**

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

75 TrC Combi - cre5

Samples: 150 **RAM: 9 MB** **Level 2**

Slow and fast legato: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

76 TrC Combi - cre9

Samples: 270 RAM: 16 MB Level 2

Portato and staccato: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

77 TrC Legato slow - dim5

Samples: 75 RAM: 4 MB Level 2

Slow legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

78 TrC Legato fast - dim5

Samples: 75 RAM: 4 MB Level 2

Fast legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

79 TrC Portato - dim9

Samples: 135 RAM: 8 MB Level 2

Portato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

80 TrC Staccato - dim9

Samples: 135 RAM: 8 MB Level 2

Staccato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

81 TrC Combi - dim5

Samples: 150 RAM: 9 MB Level 2

Slow and fast legato: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

82 TrC Combi - dim9

Samples: 270 RAM: 16 MB Level 2

Portato and staccato: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

TrC VSL Preset Level 1

Samples: 3428 RAM: 214 MB Level 1

L1 TrC Perf-Legato Speed
L1 TrC Articulation Combi
L1 TrC Perf-Repetitions Combi
Preset keyswitches: C2–D2

TrC VSL Preset Level 2

Samples: 6004 RAM: 375 MB Level 2

01 TrC Perf-Universal
02 TrC Perf-Trill Speed
L1 TrC Articulation Combi
31 TrC Perf-Repetitions - Combi
76 TrC Combi - cre9
Preset keyswitches: C2–E2

52 Trumpet-C mute

Patches

01 SHORT + LONG NOTES — Range: E3–C#6

Single notes
Level 1: Staccato
Portato short
Sustained with and without vibrato
Level 2: Portato medium
Portato long with vibrato
Sustained with progressive vibrato

01 TrC-mu_staccato — **Samples: 186** **RAM: 11 MB** **Level 1**
Staccato
3 velocity layers: 0–55 p; 56–108 f; 109–127 f
4 Alternations

02 TrC-mu_portato_short — **Samples: 168** **RAM: 10 MB** **Level 1**
Portato, short
3 velocity layers: 0–55 p; 56–108 f; 109–127 f
4 Alternations

03 TrC-mu_portato_medium — **Samples: 192** **RAM: 12 MB** **Level 2**
Portato, medium
3 velocity layers: 0–55 p; 56–108 f; 109–127 f
4 Alternations

04 TrC-mu_portato_long_Vib — **Samples: 96** **RAM: 6 MB** **Level 2**
Portato, long, with vibrato
3 velocity layers: 0–55 p; 56–108 f; 109–127 f
Release samples

11 TrC-mu_sus_Vib — **Samples: 141** **RAM: 8 MB** **Level 1**
Sustained, with vibrato
3 velocity layers: 0–55 p; 56–108 f; 109–127 f
Release samples

12 TrC-mu_sus_Vib-progr — **Samples: 96** **RAM: 6 MB** **Level 2**
Sustained, progressive vibrato
3 velocity layers: 0–55 p; 56–108 f; 109–127 f
Release samples

13 TrC-mu_sus_noVib — **Samples: 96** **RAM: 6 MB** **Level 1**
Sustained, without vibrato
3 velocity layers: 0–55 p; 56–108 f; 109–127 f
Release samples

02 DYNAMICS Range: E3–C#6

Dynamics

Level 1: crescendo-diminuendo with vibrato, 2 and 5 sec.
Fortepiano and sforzato without vibrato

Level 2: Medium crescendo and diminuendo with vibrato, 2, 3, and 4 sec.
Medium crescendo and diminuendo without vibrato, 2, 3, 4, and 6 sec.
Strong crescendo and diminuendo without vibrato, 2, 3, 4, and 6 sec.
pfp with vibrato, 9 sec.; without vibrato, 2, 3, 4, and 5 sec.
Fortepiano, sforzato, and sforzatissimo with vibrato; sforzatissimo without vibrato

01 TrC-mu_dyn-me_Vib_2s — Samples: 64 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo with vibrato, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

02 TrC-mu_dyn-me_Vib_3s — Samples: 64 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo with vibrato, 3 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

03 TrC-mu_dyn-me_Vib_4s — Samples: 64 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo with vibrato, 4 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

11 TrC-mu_dyn-me_noVib_2s — Samples: 64 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo without vibrato, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

12 TrC-mu_dyn-me_noVib_3s — Samples: 64 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo without vibrato, 3 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

13 TrC-mu_dyn-me_noVib_4s — Samples: 64 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo without vibrato, 4 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

14 TrC-mu_dyn-me_noVib_6s — Samples: 64 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo without vibrato, 6 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

21 TrC-mu_dyn-str_noVib_2s — Samples: 32 — RAM: 2 MB — Level 2

Strong crescendo and diminuendo without vibrato, 2 sec.
1 velocity layer
AB switch: crescendo/diminuendo

22 TrC-mu_dyn-str_noVib_3s **Samples: 32** **RAM: 2 MB** **Level 2**

Strong crescendo and diminuendo without vibrato, 3 sec.
1 velocity layer
AB switch: crescendo/diminuendo

23 TrC-mu_dyn-str_noVib_4s **Samples: 32** **RAM: 2 MB** **Level 2**

Strong crescendo and diminuendo without vibrato, 4 sec.
1 velocity layer
AB switch: crescendo/diminuendo

24 TrC-mu_dyn-str_noVib_6s **Samples: 32** **RAM: 2 MB** **Level 2**

Strong crescendo and diminuendo without vibrato, 6 sec.
1 velocity layer
AB switch: crescendo/diminuendo

31 TrC-mu_pfp_Vib_2s **Samples: 32** **RAM: 2 MB** **Level 1**

Crescendo-diminuendo with vibrato, 2 sec.
2 velocity layers: 0–88 p; 89–127 mf

32 TrC-mu_pfp_Vib_5s **Samples: 32** **RAM: 2 MB** **Level 1**

Crescendo-diminuendo with vibrato, 5 sec.
2 velocity layers: 0–88 p; 89–127 mf

33 TrC-mu_pfp_Vib_9s **Samples: 16** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo with vibrato, 9 sec.
1 velocity layer

34 TrC-mu_pfp_noVib_2s **Samples: 32** **RAM: 2 MB** **Level 2**

Crescendo-diminuendo without vibrato, 2 sec.
2 velocity layers: 0–88 p; 89–127 mf

35 TrC-mu_pfp_noVib_3s **Samples: 32** **RAM: 2 MB** **Level 2**

Crescendo-diminuendo without vibrato, 3 sec.
2 velocity layers: 0–88 p; 89–127 mf

36 TrC-mu_pfp_noVib_4s **Samples: 32** **RAM: 2 MB** **Level 2**

Crescendo-diminuendo without vibrato, 4 sec.
2 velocity layers: 0–88 p; 89–127 mf

37 TrC-mu_pfp_noVib_5s **Samples: 32** **RAM: 2 MB** **Level 2**

Crescendo-diminuendo without vibrato, 5 sec.
2 velocity layers: 0–88 p; 89–127 mf

41 TrC-mu_fp_Vib **Samples: 31** **RAM: 1 MB** **Level 2**

Fortepiano, with vibrato
1 velocity layer
2 Alternations

42 TrC-mu_sfz_Vib **Samples: 31** **RAM: 1 MB** **Level 2**

Sforzato, with vibrato
1 velocity layer
2 Alternations

43 TrC-mu_sffz_Vib **Samples: 31** **RAM: 1 MB** **Level 2**

Sforzatissimo, with vibrato
1 velocity layer
2 Alternations

44 TrC-mu_fp_noVib **Samples: 31** **RAM: 1 MB** **Level 1**

Fortepiano, without vibrato
1 velocity layer
2 Alternations

45 TrC-mu_sfz_noVib **Samples: 31** **RAM: 1 MB** **Level 1**

Sforzato, without vibrato
1 velocity layer
2 Alternations

46 TrC-mu_sffz_noVib **Samples: 31** **RAM: 1 MB** **Level 2**

Sforzatissimo, without vibrato
1 velocity layer
2 Alternations

03 FLATTER + TRILLS **Range: E3–C#6**

Flutter tonguing and trills
Level 1: Flutter tonguing normal and crescendo
Trills normal, minor and major 2nd
Level 2: Trills dynamics, minor and major 2nd

01 TrC-mu_flatter **Samples: 62** **RAM: 3 MB** **Level 1**

Flutter tonguing
1 velocity layer: 0–127 f
Release samples

02 TrC-mu_flatter_cre **Samples: 31** **RAM: 1 MB** **Level 1**

Flutter tonguing, crescendo
1 velocity layer

11 TrC-mu_trill_1 **Range: E3–B6** **Samples: 60** **RAM: 3 MB** **Level 1**

Trills, minor 2nd
2 velocity layers: 0–88 p; 89–127 f
Release samples

12 TrC-mu_trill_2 **Range: E3–B6** **Samples: 60** **RAM: 3 MB** **Level 1**

Trills, major 2nd
2 velocity layers: 0–88 p; 89–127 f
Release samples

13 TrC-mu_trill_1_dyn **Range: E3–B6** **Samples: 30** **RAM: 1 MB** **Level 2**

Trills, crescendo and diminuendo, minor 2nd
1 velocity layer
AB switch: crescendo/diminuendo

14 TrC-mu_trill_2_dyn **Range: E3–B6** **Samples: 30** **RAM: 1 MB** **Level 2**

Trills, crescendo and diminuendo, major 2nd
1 velocity layer
AB switch: crescendo/diminuendo

10 PERF INTERVAL

Range: E3–C6

Interval performances
Level 2: Legato, without and with vibrato
Marcato

01 TrC-mu_perf-legato_noVib **Samples: 700** **RAM: 43 MB** **Level 2**

Legato, without vibrato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 TrC-mu_perf-legato_Vib **Samples: 378** **RAM: 23 MB** **Level 2**

Legato, with vibrato
Monophonic
1 velocity layer: 0–127 mf
Release samples

03 TrC-mu_perf-marcato_noVib **Samples: 700** **RAM: 43 MB** **Level 2**

Marcato, without vibrato
Monophonic
2 velocity layers: 0–88 mp; 89–127 f
Release samples

11 PERF INTERVAL FAST

Range: E3–C6

Fast interval performances
Level 2: Legato
Marcato

01 TrC-mu_perf-legato_fa **Samples: 686** **RAM: 42 MB** **Level 2**

Legato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 TrC-mu_perf-marcato_fa **Samples: 684** **RAM: 42 MB** **Level 2**

Marcato, fast
Monophonic
2 velocity layers: 0–88 mp; 89–127 f
Release samples

12 PERF TRILL **Range: E3–C6**

Multi interval performances
Level 2: Trills, legato, minor to major 2nd

01 TrC-mu_perf-trill **Samples: 1224** **RAM: 76 MB** **Level 2**

Performance trills, legato, minor to major 2nd
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

13 PERF REPETITION **Range: F#3–C#6**

Repetition performances
Level 2: Legato
Portato slow and fast
Staccato slow and fast
Normal and dynamics

01 TrC-mu_perf-rep_leg **Samples: 140** **RAM: 8 MB** **Level 2**

Legato
2 velocity layers: 0–88 p; 89–127 f

02 TrC-mu_perf-rep_por-sl **Range: E3–C#6** **Samples: 288** **RAM: 18 MB** **Level 2**

Portato, slow
2 velocity layers: 0–88 p; 89–127 f

03 TrC-mu_perf-rep_por-fa **Range: E3–C#6** **Samples: 288** **RAM: 18 MB** **Level 2**

Portato, fast
2 velocity layers: 0–88 p; 89–127 f

04 TrC-mu_perf-rep_sta-sl **Samples: 252** **RAM: 15 MB** **Level 2**

Staccato, slow
2 velocity layers: 0–88 p; 89–127 f

05 TrC-mu_perf-rep_sta-fa **Range: E3–C#6** **Samples: 288** **RAM: 18 MB** **Level 2**

Staccato, fast
2 velocity layers: 0–88 p; 89–127 f

21 TrC-mu_perf-rep_dyn5_leg **Samples: 140** **RAM: 8 MB** **Level 2**

Legato dynamics, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

22 TrC-mu_perf-rep_dyn9_por-sl **Range: E3–C#6** **Samples: 288** **RAM: 18 MB** **Level 2**

Portato dynamics, slow, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

23 TrC-mu_perf-rep_dyn9_por-fa **Range: E3–C#6** **Samples: 288** **RAM: 18 MB** **Level 2**

Portato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

24 TrC-mu_perf-rep_dyn9_sta-sl **Samples: 252** **RAM: 15 MB** **Level 2**

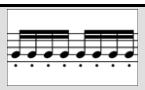
Staccato dynamics, slow, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

25 TrC-mu_perf-rep_dyn9_sta-fa **Range: E3–C#6** **Samples: 288** **RAM: 18 MB** **Level 2**

Staccato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

14 FAST REPETITION

Range: E3–C#6



Fast repetitions
Level 2: Staccato, 9 repetitions, 140–170, and 190 BPM
Normal and dynamics

01 TrC-mu_fast-rep_140 (150/160/170/190) **Samples: 64** **RAM: 4 MB** **Level 2**

Staccato repetitions, 140–170, and 190 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

11 TrC-mu_fast-rep_140_dyn (150/160/170/190) **Samples: 32** **RAM: 2 MB** **Level 2**

Staccato repetitions, dynamics, 140–170, and 190 BPM
1 velocity layer
AB switch: crescendo/diminuendo

15 UPBEAT REPETITION

Upbeat repetitions
Level 2: 1–3 upbeats, 90–140, 160, 180, and 200 BPM

15 UPBEAT REPETITION/A Single Upbeat Range: E3–C#6

01 TrC-mu_UB-a1_90 (100/110/120/130/140/160/180/200) **Samples: 32** **RAM: 2 MB** **Level 2**
1 upbeat, 90–140, 160, 180, and 200 BPM
2 velocity layers: 0–88 p; 89–127 f

15 UPBEAT REPETITION/B Double Upbeats Range: E3–C#6

01 TrC-mu_UB-a2_90 (100/110/120/130/140/160/180/200) **Samples: 32** **RAM: 2 MB** **Level 2**
2 upbeats, 90–140, 160, 180, and 200 BPM
2 velocity layers: 0–88 p; 89–127 f

15 UPBEAT REPETITION/C Triple Upbeats Range: E3–C#6

01 TrC-mu_UB-a3_90 (100/110/120/130/140/160/180/200) **Samples: 32** **RAM: 2 MB** **Level 2**
3 upbeats, 90–140, 160, 180, and 200 BPM
2 velocity layers: 0–88 p; 89–127 f

98 RESOURCES

Resources
Level 2: Isolated dynamics repetitions: Legato, portato, and staccato
Single layer long notes

98 RESOURCES/01 Perf Rep dyn Range: F#3–C#6

01 TrC_mu_rep_cre5_leg-1 (2/3/4/5) **Samples: 14** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, crescendo, 1st to 5th note
1 velocity layer

01 TrC_mu_rep_dim5_leg-1 (2/3/4/5) **Samples: 14** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, diminuendo, 1st to 5th note
1 velocity layer

02 TrC_mu_rep_cre9_por-1 (2/3/4/5/6/7/8/9) **Range: E3–C#6** **Samples: 16** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, crescendo, 1st to 9th note
1 velocity layer

02 TrC_mu_rep_dim9_por-1 (2/3/4/5/6/7/8/9) **Range: E3–C#6** **Samples: 16** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, diminuendo, 1st to 9th note
1 velocity layer

03 TrC_mu_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 14** **RAM: 1 MB** **Level 2**

Extracted repetitions: Staccato, crescendo, 1st to 9th note
1 velocity layer

03 TrC_mu_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 14** **RAM: 1 MB** **Level 2**

Extracted repetitions: Staccato, diminuendo, 1st to 9th note
1 velocity layer

98 RESOURCES/02 Long Notes - Single Layer Range: E3–C#6

01 TrC-mu_sus_p_noVib **Samples: 32** **RAM: 2 MB** **Level 2**

Sustained, piano, without vibrato
1 velocity layer
Release samples

02 TrC-mu_sus_mf_noVib **Samples: 32** **RAM: 2 MB** **Level 2**

Sustained, mezzoforte, without vibrato
1 velocity layer
Release samples

03 TrC-mu_sus_f_noVib **Samples: 32** **RAM: 2 MB** **Level 2**

Sustained, forte, without vibrato
1 velocity layer
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 TrC-mu Articulation Combi — Samples: 882 RAM: 55 MB Level 1

Single note articulations
Staccato, portato short, sustained with and without vibrato, crescendo-diminuendo with vibrato 2 and 5 sec., fortepiano and sforzato, flutter tonguing normal and crescendo, trills half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
V1	stac	sus vib.	pfp vib. 2s.	fp	flutter	trill half
V2	port. short	sus no vib.	pfp vib. 5s.	sfz	flutter cres.	trill whole

Matrix - LEVEL 2 A - Advanced

01 TrC-mu Perf-Universal — Samples: 1762 RAM: 110 MB Level 2

Interval performances
Legato and Marcato, normal without vibrato and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones Vertical: Modwheel, 2 zones

	H1	H2
legato	normal	fast
marcato	normal	fast

02 TrC-mu Perf-Trill Speed — Samples: 1452 RAM: 90 MB Level 2

Multi interval performances
Legato and trills
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

03 TrC-mu Short+Long notes — Samples: 783 RAM: 48 MB Level 2

Single notes
Staccato, portato short and medium, sustained with light, progressive, and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1
V1	staccato	port. short	port.med.	sus. vib.
V2	%	%	%	sus. prog. vib.
V3	%	%	%	sus. no vib.

Matrix - LEVEL 2 B - Standard

11 TrC-mu Perf-Legato Speed — Samples: 914 RAM: 57 MB Level 2

Interval performances
Legato normal without vibrato, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
legato	normal no vib.	fast

12 TrC-mu Perf-Marcato Speed — Samples: 912 RAM: 57 MB Level 2

Interval performances
Marcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
marcato	normal	fast

13 TrC-mu Short notes — Samples: 642 RAM: 40 MB Level 2

Single notes
Staccato, portato short, portato medium, portato long with vibrato

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	staccato	port. short	port.medium	port.long vib.

14 TrC-mu Long notes - All — Samples: 237 RAM: 14 MB Level 2

Single notes
Sustained with normal, progressive, and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
sustained	vibrato	progr. vibrato	no vibrato

15 TrC-mu Dynamics - Small — Samples: 285 RAM: 17 MB Level 2

Dynamics
Medium crescendo and diminuendo with vibrato, 2, 3, and 4 sec.
Fortepiano, sforzato, and sforzatissimo without vibrato

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.med. vib.	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

16 TrC-mu Dynamics - Large
Samples: 669 RAM: 41 MB Level 2

Dynamics
Medium crescendo and diminuendo with and without vibrato, 2, 3, and 4 sec.
Strong crescendo and diminuendo without vibrato, 2, 3, and 4 sec.
Crescendo-diminuendo without vibrato 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo without vibrato

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 5 zones

	C1	C#1	D1
dyn.med. vib.	2 sec.	3 sec.	4 sec.
dyn.med. no vib.	2 sec.	3 sec.	4 sec.
dyn.str. no vib.	2 sec.	3 sec.	4 sec.
pfp no vib.	2 sec.	3 sec.	4 sec.
fp/sfz/sffz	fp	sfz	sffz

17 TrC-mu Flatter
Samples: 93 RAM: 5 MB Level 2

Flutter tonguing
Normal, crescendo, and normal/crescendo with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal	crescendo	Cell XF

18 TrC-mu Trills
Samples: 180 RAM: 11 MB Level 2

Trills, minor and major 2nd
Normal and dynamics

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
min. 2nd	normal	dynamics
maj. 2nd	normal	dynamics

Matrix - LEVEL 2 C - Repetitions

31 TrC-mu Perf-Repetitions - Combi
Samples: 968 RAM: 60 MB Level 2

Repetition performances
Legato, portato slow and fast, and staccato slow

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	legato	portato slow	portato fast	staccato slow

32 TrC-mu Perf-Repetitions - Speed
Samples: 716 RAM: 44 MB Level 2

Repetition performances
Legato, portato fast, and staccato fast
Speed controller

Matrix switches: Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato	portato fast	portato fast	staccato fast

33 TrC-mu Fast-Repetitions
Samples: 192 **RAM: 12 MB** **Level 2**

Fast repetitions: Staccato, 140–170, and 190 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	140	150	160	170	190

34 TrC-mu Upbeats a1
Samples: 288 **RAM: 18 MB** **Level 2**

Repetitions: 1 upbeat, 90–140, 160, 180, and 200 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

35 TrC-mu Upbeats a2
Samples: 288 **RAM: 18 MB** **Level 2**

Repetitions: 2 upbeats, 90–140, 160, 180, and 200 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

36 TrC-mu Upbeats a3
Samples: 288 **RAM: 18 MB** **Level 2**

Repetitions: 3 upbeats, 90–140, 160, 180, and 200 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

37 TrC-mu Upbeats all
Samples: 864 **RAM: 54 MB** **Level 2**

Repetitions: 1–3 upbeats, 90–140, 160, 180, and 200 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
1 upbeat	90	100	110	120	130	140	160	180	200
2 upbeats	90	100	110	120	130	140	160	180	200
3 upbeats	90	100	110	120	130	140	160	180	200

Matrix - LEVEL 2 E - Keyswitch Vel

71 TrC-mu Legato - cre5
Samples: 70 **RAM: 4 MB** **Level 2**

Legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 TrC-mu Portato - cre9
Samples: 144 **RAM: 9 MB** **Level 2**

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

73 TrC-mu Staccato - cre9

Samples: 126 **RAM: 7 MB** **Level 2**

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 TrC-mu Combi - cre9

Samples: 270 **RAM: 16 MB** **Level 2**

Portato and staccato: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

75 TrC-mu Legato - dim5

Samples: 70 **RAM: 4 MB** **Level 2**

Legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

76 TrC-mu Portato - dim9

Samples: 144 **RAM: 9 MB** **Level 2**

Portato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

77 TrC-mu Staccato - dim9

Samples: 126 **RAM: 7 MB** **Level 2**

Staccato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

78 TrC-mu Combi - dim9

Samples: 270 **RAM: 16 MB** **Level 2**

Portato and staccato: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

TrC-mu VSL Preset Level 1 **Samples: 882** **RAM: 55 MB** **Level 1**

L1 TrC-mu Articulation Combi

TrC-mu VSL Preset Level 2 **Samples: 4538** **RAM: 283 MB** **Level 2**

01 TrC-mu Perf-Universal
02 TrC-mu Perf-Trill Speed
L1 TrC-mu Articulation Combi
31 TrC-mu Perf-Repetitions - Combi
74 TrC-mu Combi - cre9
Preset keyswitches: C2–E2

54 Horn-Vienna

Description

The French horn in F is a brass wind instrument with a funnel-shaped mouthpiece.

In the 19th century it became the most important wind instrument in the Romantic orchestra. The brass section of the modern orchestra usually uses four horns, especially large sections may even have six or eight horns.

Range and notation

The horn in F has a range from B1–F5.

It is notated in F; in bass clef and treble clef it is written a fifth higher than it sounds.

Sound characteristics

Full, warm, velvety, clear, bright, intense, heroic, distant, mellow, metallic, powerful, expressive, resounding, sonorous.

Low notes are most effective played *piano*, when forced they take on a slightly rough tone. Ideal for the performance of thematic tasks.

The notes in the middle register sound mellow, full and resounding.

The high notes are soft as velvet, bright and very intense, brilliant. This characteristic horn sound develops best around C5.

Combination with other instruments

The horn blends with all the instrument groups in the orchestra better than any other instrument.

Played together with other brass instruments the horn loses its mellow euphony, for cup and funnel-shaped mouthpieces mutually cancel out their characteristic sounds.

Of the woodwinds, the clarinet and bassoon blend very well with the horn.

Strings combined with horns blend into a homogeneous overall sound.

Patches

01 SHORT + LONG NOTES — Range: A#1–F5

Single notes

Level 1: Staccato
Portato short
Sustained with and without vibrato

Level 2: Portato short, soft attack
Portato medium, normal and soft attack
Portato long, with and without vibrato, marcato, and blared
Sustained, blared

01 HO1_staccato — **Samples: 438** **RAM: 27 MB** **Level 1**

Staccato
5 velocity layers: 0–28 pp; 29–55 p; 56–88 mp; 89–108 mf; 109–127 f
4 Alternations

02 HO1_portato_short **Samples: 332** **RAM: 20 MB** **Level 1**

Portato, short
4 velocity layers: 0–55 mp; 56–88 mf; 89–108 f; 109–127 ff
4 Alternations

03 HO1_portato_short_soft **Samples: 318** **RAM: 19 MB** **Level 2**

Portato, short, soft attack
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
4 Alternations

04 HO1_portato_medium **Samples: 454** **RAM: 28 MB** **Level 2**

Portato, medium
6 velocity layers: 0–28 pp; 29–55 p; 56–88 mp; 89–108 mf; 109–118 f; 119–127 ff
4 Alternations

05 HO1_portato_medium_soft **Samples: 472** **RAM: 29 MB** **Level 2**

Portato, medium, soft attack
6 velocity layers: 0–28 pp; 29–55 p; 56–88 mp; 89–108 mf; 109–118 f; 119–127 ff
4 Alternations

06 HO1_portato_long_Vib **Range: G2–F5** **Samples: 225** **RAM: 14 MB** **Level 2**

Portato, long, with vibrato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples
2 Alternations

07 HO1_portato_long_noVib **Samples: 388** **RAM: 24 MB** **Level 2**

Portato, long, without vibrato
6 velocity layers: 0–28 pp; 29–55 p; 56–70 mp; 71–88 mf; 89–108 f; 109–127 ff
Release samples
2 Alternations

08 HO1_portato_long_marc **Samples: 316** **RAM: 19 MB** **Level 2**

Portato, long, marcato
4 velocity layers: 0–55 mp; 56–88 mf; 89–108 f; 109–127 ff
Release samples
2 Alternations

09 HO1_portato_long_blare **Range: D2–F5** **Samples: 80** **RAM: 5 MB** **Level 2**

Portato, long, blared
Please note that due to an oversight the Patch description in the software's Central Info Screen says "blurred" instead of "blared".
1 velocity layer: 0–127 fff
Release samples
2 Alternations

21 HO1_sus_Vib **Range: G2–D5** **Samples: 219** **RAM: 13 MB** **Level 1**

Sustained, with vibrato
4 velocity layers: 0–55 pp; 56–88 mp; 89–108 mf; 109–127 f
Release samples

22 HO1_sus_noVib **Samples: 384** **RAM: 24 MB** **Level 1**

Sustained, without vibrato
6 velocity layers: 0–28 pp; 29–55 p; 56–70 mp; 71–88 mf; 89–108 f; 109–127 ff
Release samples

23 HO1_sus_blare **Range: D2–F5** **Samples: 117** **RAM: 7 MB** **Level 2**

Sustained, blared
2 velocity layers: 0–108 f; 109–127 ff
Release samples
2 Alternations

02 DYNAMICS Range: G2–D5

Dynamics
Level 1: Fortepiano, sforzato
Crescendo-diminuendo without vibrato, 6 (var. 1) and 8 sec.
Level 2: Light crescendo and diminuendo without vibrato, 1, 1.5, 2, 3, 4, and 6 sec.
Medium crescendo and diminuendo with vibrato, 4 and 6 sec.; without vibrato, 1, 1.5, 2, 3, 4, and 6 sec.
Strong crescendo and diminuendo without vibrato, 2, 3, 4, and 6 sec.
Crescendo-diminuendo without vibrato, 6 sec. (var. 2)
Sforzatissimo

01 HO1_dyn-li_noVib_1s **Samples: 200** **RAM: 12 MB** **Level 2**

Light crescendo and diminuendo, without vibrato, 1 sec.
4 velocity layers: 0–55 pp-p/p-pp; 56–88 p-mf/mp-p; 89–108 mf-f/mf-mp; 109–127 f-ff/ff-f
AB switch: crescendo/diminuendo

02 HO1_dyn-li_noVib_1'5s **Samples: 200** **RAM: 12 MB** **Level 2**

Light crescendo and diminuendo, without vibrato, 1.5 sec.
4 velocity layers: 0–55 pp-p/p-pp; 56–88 p-mf/mp-p; 89–108 mf-f/mf-mp; 109–127 f-ff/ff-f
AB switch: crescendo/diminuendo

03 HO1_dyn-li_noVib_2s **Samples: 199** **RAM: 12 MB** **Level 2**

Light crescendo and diminuendo, without vibrato, 2 sec.
4 velocity layers: 0–55 pp-p/p-pp; 56–88 p-mf/mp-p; 89–108 mf-f/mf-mp; 109–127 f-ff/ff-f
AB switch: crescendo/diminuendo

04 HO1_dyn-li_noVib_3s **Samples: 199** **RAM: 12 MB** **Level 2**

Light crescendo and diminuendo, without vibrato, 3 sec.
4 velocity layers: 0–55 pp-p/p-pp; 56–88 p-mf/mp-p; 89–108 mf-f/mf-mp; 109–127 f-ff/ff-f
AB switch: crescendo/diminuendo

05 HO1_dyn-li_noVib_4s **Samples: 174** **RAM: 10 MB** **Level 2**

Light crescendo and diminuendo, without vibrato, 4 sec.
4 velocity layers: Crescendo: 0–55 pp-p; 56–88 p-mf; 89–108 mf-f; 109–127 f-ff
Diminuendo: 0–55 mp-p; 56–108 f-mp; 109–127 ff-f
AB switch: crescendo/diminuendo

06 HO1_dyn-li_noVib_6s **Range: A#2–D5** **Samples: 175** **RAM: 10 MB** **Level 2**

Light crescendo and diminuendo, without vibrato, 6 sec.
4 velocity layers: Crescendo: 0–55 pp-p; 56–88 p-mf; 89–108 mf-f; 109–127 f-ff
Diminuendo: 0–55 mp-p; 56–108 f-mp; 109–127 ff-f
AB switch: crescendo/diminuendo

11 HO1_dyn-me_Vib_4s **Samples: 100** **RAM: 6 MB** **Level 2**

Medium crescendo and diminuendo, with vibrato, 4 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mp-f/ff-mf
AB switch: crescendo/diminuendo

12 HO1_dyn-me_Vib_6s **Range: G2–F5** **Samples: 60** **RAM: 3 MB** **Level 2**

Medium crescendo and diminuendo, with vibrato, 6 sec.
1 velocity layer: 0–127 p-f/f-p
AB switch: crescendo/diminuendo

21 HO1_dyn-me_noVib_1s **Samples: 100** **RAM: 6 MB** **Level 2**

Medium crescendo and diminuendo, without vibrato, 1 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

22 HO1_dyn-me_noVib_1'5s **Samples: 100** **RAM: 6 MB** **Level 2**

Medium crescendo and diminuendo, without vibrato, 1.5 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

23 HO1_dyn-me_noVib_2s **Samples: 100** **RAM: 6 MB** **Level 2**

Medium crescendo and diminuendo, without vibrato, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

24 HO1_dyn-me_noVib_3s **Samples: 100** **RAM: 6 MB** **Level 2**

Medium crescendo and diminuendo, without vibrato, 3 sec.
2 velocity layers: 0–88 pp-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

25 HO1_dyn-me_noVib_4s **Samples: 99** **RAM: 6 MB** **Level 2**

Medium crescendo and diminuendo, without vibrato, 4 sec.
2 velocity layers: 0–88 pp-mf/mf-pp; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

26 HO1_dyn-me_noVib_6s **Samples: 99** **RAM: 6 MB** **Level 2**

Medium crescendo and diminuendo, without vibrato, 6 sec.
2 velocity layers: 0–88 pp-mf/mf-pp; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

31 HO1_dyn-str_noVib_2s **Range: G2–F#5** **Samples: 61** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, without vibrato, 2 sec.
1 velocity layer: 0–127 pp-ff/f-p
AB switch: crescendo/diminuendo

32 HO1_dyn-str_noVib_3s **Range: G2–F#5** **Samples: 61** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, without vibrato, 3 sec.
1 velocity layer: 0–127 pp-ff/f-p
AB switch: crescendo/diminuendo

33 HO1_dyn-str_noVib_4s **Samples: 50** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, without vibrato, 4 sec.
1 velocity layer: 0–127 pp-ff/ff-pp
AB switch: crescendo/diminuendo

34 HO1_dyn-str_noVib_6s **Samples: 50** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, without vibrato, 6 sec.
1 velocity layer: 0–127 pp-ff/ff-pp
AB switch: crescendo/diminuendo

41 HO1_pfp_noVib_6s-v1 **Samples: 50** **RAM: 3 MB** **Level 1**

Crescendo-diminuendo without vibrato, 6 sec., var. 1
2 velocity layers: 0–88 p-mp; 89–127 mp-mf

42 HO1_pfp_noVib_6s-v2 **Samples: 25** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo without vibrato, 6 sec., var. 2
1 velocity layer

43 HO1_pfp_noVib_8s **Samples: 50** **RAM: 3 MB** **Level 1**

Crescendo-diminuendo without vibrato, 8 sec.
2 velocity layers: 0–88 p-mp; 89–127 mp-mf

51 HO1_fp **Samples: 25** **RAM: 1 MB** **Level 1**

Fortepiano
1 velocity layer
2 Alternations

52 HO1_sfz **Samples: 25** **RAM: 1 MB** **Level 1**

Sforzato
1 velocity layer
2 Alternations

53 HO1_sffz **Range: G2–F5** **Samples: 30** **RAM: 1 MB** **Level 2**

Sforzatissimo
1 velocity layer
2 Alternations

03 FLATTER + TRILLS — Range: G2–D5

Flutter tonguing and trills
Level 1: Flutter tonguing normal and crescendo
Trills, minor and major 2nd
Level 2: Lip trills

01 HO1_flatter — Samples: 50 — RAM: 3 MB — Level 1

Flutter tonguing
1 velocity layer: 0–127 ff
Release samples

02 HO1_flatter_cre — Samples: 25 — RAM: 1 MB — Level 1

Flutter tonguing, crescendo
1 velocity layer

11 HO1_trill_1 — Samples: 100 — RAM: 6 MB — Level 1

Trills, minor 2nd
2 velocity layers: 0–108 p; 109–127 ff
Release samples

12 HO1_trill_2 — Samples: 48 — RAM: 3 MB — Level 1

Trills, major 2nd
2 velocity layers: 0–108 mf; 109–127 f
Release samples

13 HO1_trill_lip — Range: G3–D5 — Samples: 52 — RAM: 3 MB — Level 2

Lip trills
2 velocity layers: 0–88 p; 89–127 f
Release samples

04 STOPPED — Range: G2–F5

Single notes, stopped
Level 2: Staccato
Portato medium and long
Sustained
Crescendo and diminuendo, 1, 1.5, 2, 3, 4, and 6 sec.
Fortepiano, sforzato, and sforzatissimo

01 HO1_sto_staccato — Samples: 180 — RAM: 11 MB — Level 2

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
4 Alternations

02 HO1_sto_portato_medium — Samples: 180 — RAM: 11 MB — Level 2

Portato, medium
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
4 Alternations

03 HO1_sto_portato_long **Samples: 180** **RAM: 11 MB** **Level 2**

Portato, long
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples
2 Alternations

04 HO1_sto_sus **Samples: 180** **RAM: 11 MB** **Level 2**

Sustained
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff
Release samples

11 HO1_sto_dyn_1s **Samples: 60** **RAM: 3 MB** **Level 2**

Crescendo and diminuendo, 1 sec.
1 velocity layer: 0–127 p-f/f-p
AB switch: crescendo/diminuendo

12 HO1_sto_dyn_1'5s **Samples: 60** **RAM: 3 MB** **Level 2**

Crescendo and diminuendo, 1.5 sec.
1 velocity layer: 0–127 p-f/f-p
AB switch: crescendo/diminuendo

13 HO1_sto_dyn_2s **Samples: 60** **RAM: 3 MB** **Level 2**

Crescendo and diminuendo, 2 sec.
1 velocity layer: 0–127 p-f/f-p
AB switch: crescendo/diminuendo

14 HO1_sto_dyn_3s **Samples: 60** **RAM: 3 MB** **Level 2**

Crescendo and diminuendo, 3 sec.
1 velocity layer: 0–127 p-f/f-p
AB switch: crescendo/diminuendo

15 HO1_sto_dyn_4s **Samples: 60** **RAM: 3 MB** **Level 2**

Crescendo and diminuendo, 4 sec.
1 velocity layer: 0–127 p-f/f-p
AB switch: crescendo/diminuendo

16 HO1_sto_dyn_6s **Samples: 60** **RAM: 3 MB** **Level 2**

Crescendo and diminuendo, 6 sec.
1 velocity layer: 0–127 p-f/f-p
AB switch: crescendo/diminuendo

17 HO1_sto_fp **Samples: 30** **RAM: 1 MB** **Level 2**

Fortepiano
1 velocity layer
2 Alternations

18 HO1_sto_sfz **Samples: 30** **RAM: 1 MB** **Level 2**

Sforzato
1 velocity layer
2 Alternations

19 HO1_sto_sffz **Samples: 30** **RAM: 1 MB** **Level 2**

Sforzatissimo
1 velocity layer
2 Alternations

10 PERF INTERVAL **Range: G2–F5**

Interval performances
Level 1: Legato without vibrato, normal and with sustain crossfading
Level 2: Legato with vibrato, sustain crossfading
Marcato

01 HO1_perf-legato_noVib **Samples: 1038** **RAM: 64 MB** **Level 1**

Legato, without vibrato
Monophonic
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

02 HO1_perf-legato_noVib_sus **Samples: 1038** **RAM: 64 MB** **Level 1**

Legato, without vibrato
Sustain crossfading
Monophonic
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

03 HO1_perf-legato_Vib_sus **Range: G2–D#5** **Samples: 1047** **RAM: 65 MB** **Level 2**

Legato, with vibrato
Sustain crossfading
Monophonic
4 velocity layers: Legato: 0–55 p; 56–108 mf; 109–127 f
Sustained: 0–55 pp; 56–88 mp; 89–108 mf; 109–127 f
Release samples

04 HO1_perf-marcato **Range: G2–E5** **Samples: 1125** **RAM: 70 MB** **Level 2**

Marcato
Monophonic
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

11 PERF INTERVAL FAST **Range: G2–F5**

Fast interval performances
Level 1: Legato
Level 2: Marcato

01 HO1_perf-legato_fa **Samples: 848** **RAM: 53 MB** **Level 1**

Legato, fast
Monophonic
2 velocity layers: 0–108 mf; 109–127 f
Release samples

02 HO1_perf-marcato_fa **Samples: 1100 RAM: 68 MB** **Level 2**

Marcato, fast
Monophonic
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

12 PERF TRILL Range: G2–E5

Multi interval performances
Level 2: Trills, legato, minor to major 2nd

01 HO1_perf-trill **Samples: 1291 RAM: 80 MB** **Level 2**

Performance trills, legato, minor to major 2nd
Monophonic
2 velocity layers: 0–88 mp; 89–127 f
Release samples

13 PERF REPETITION Range: C2–D5

Repetition performances
Level 1: Legato medium
Portato
Staccato fast
Level 2: Legato slow and fast
Staccato slow

01 HO1_perf-rep_leg-sl **Samples: 306 RAM: 19 MB** **Level 2**

Legato, slow
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

02 HO1_perf-rep_leg-me **Samples: 306 RAM: 19 MB** **Level 1**

Legato, medium
3 velocity layers: 0–55 p; 56–108 mp; 109–127 mf

03 HO1_perf-rep_leg-fa **Samples: 306 RAM: 19 MB** **Level 2**

Legato, fast
3 velocity layers: 0–55 p; 56–108 mp; 109–127 f

04 HO1_perf-rep_por **Samples: 459 RAM: 28 MB** **Level 1**

Portato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

05 HO1_perf-rep_sta-sl **Samples: 459 RAM: 28 MB** **Level 2**

Staccato, slow
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

06 HO1_perf-rep_sta-fa **Samples: 459 RAM: 28 MB** **Level 1**

Staccato, fast
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

21 HO1_perf-rep_dyn6_leg-sl **Samples: 204** **RAM: 12 MB** **Level 2**

Legato dynamics, slow, 6 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

22 HO1_perf-rep_dyn6_leg-me **Samples: 204** **RAM: 12 MB** **Level 2**

Legato dynamics, medium, 6 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

23 HO1_perf-rep_dyn6_leg-fa **Samples: 204** **RAM: 12 MB** **Level 2**

Legato dynamics, fast, 6 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

24 HO1_perf-rep_dyn9_por **Samples: 306** **RAM: 19 MB** **Level 2**

Portato dynamics, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

25 HO1_perf-rep_dyn9_sta-sl **Samples: 306** **RAM: 19 MB** **Level 2**

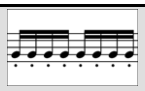
Staccato dynamics, slow, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

26 HO1_perf-rep_dyn9_sta-fa **Range: C2–F5** **Samples: 342** **RAM: 21 MB** **Level 2**

Staccato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

14 FAST REPETITION

Range: D2–D5



Fast repetitions
Level 2: Staccato, 9 repetitions, 150 to 190 BPM
Normal and dynamics

01 HO1_fast-rep_150 (160/170/180/190) **Samples: 192** **RAM: 12 MB** **Level 2**

Staccato repetitions, 150–190 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff
Release samples

11 HO1_fast-rep_150_dyn (160/170/180/190) **Samples: 64** **RAM: 4 MB** **Level 2**

Staccato repetitions, dynamics, 150–190 BPM
1 velocity layer
AB switch: crescendo/diminuendo

15 UPBEAT REPETITION

Upbeat repetitions
Level 2: 1 upbeat, 90–140, 160, and 180 BPM
2 and 3 upbeats, 90–140, 160, 180, and 200 BPM

15 UPBEAT REPETITION/A Single Upbeat Range: D2–D5

01 HO1_UB-a1_90 (100/110/120/130/140/160/180) **Samples: 96** **RAM: 6 MB** **Level 2**
1 upbeat, 90–140, 160, and 180 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

15 UPBEAT REPETITION/B Double Upbeats Range: D2–D5

01 HO1_UB-a2_90 (100/110/120/130/140/160/180/200) **Samples: 96** **RAM: 6 MB** **Level 2**
2 upbeats, 90–140, 160, 180, and 200 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

15 UPBEAT REPETITION/C Triple Upbeats Range: D2–D5

01 HO1_UB-a3_90 (100/110/120/130/140/160/180/200) **Samples: 96** **RAM: 6 MB** **Level 2**
3 upbeats, 90–140, 160, 180, and 200 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

16 GRACE NOTES Range: G2–E5

Phrases
Level 2: Grace notes
Minor and major 2nd
Up and down
Mapped to target note

01 HO1_grace-1 **Samples: 322** **RAM: 20 MB** **Level 2**
Grace notes, minor 2nd
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples
AB switch: up/down

02 HO1_grace-2 **Samples: 322** **RAM: 20 MB** **Level 2**
Grace notes, major 2nd
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples
AB switch: up/down

17 GLISSANDI

Interval performances/Phrases

Level 2: Performance glissandos, minor 3rd to octave, fast, up and down; slow, up
Fixed glissandos, 4th to octave, slow, up and down; fast, up
Please note that fixed glissandos have different tone ranges for up and down glissandos

01 HO1_perf-gliss_fa **Range: G3–F5** **Samples: 253** **RAM: 15 MB** **Level 2**

Interval performances: Glissando, fast, minor 3rd to octave
1 velocity layer: 0–127 f
Release samples

02 HO1_perf-gliss_sl-up **Range: G2–F5** **Samples: 850** **RAM: 53 MB** **Level 2**

Interval performances: Glissando, slow, up, minor 3rd to octave
2 velocity layers: 0–88 mf; 89–127 f
Release samples

11 HO1_gliss-sl-5 **Range: G3–F5** **Samples: 26** **RAM: 1 MB** **Level 2**

Glissando, slow, 4th
1 velocity layer
AB switch: up/down

12 HO1_gliss-sl-6 **Range: G3–F5** **Samples: 22** **RAM: 1 MB** **Level 2**

Glissando, slow, diminished 5th
1 velocity layer
AB switch: up/down

13 HO1_gliss-sl-7 **Range: G3–F#5** **Samples: 22** **RAM: 1 MB** **Level 2**

Glissando, slow, 5th
1 velocity layer
AB switch: up/down

14 HO1_gliss-sl-8 **Range: G3–F5** **Samples: 18** **RAM: 1 MB** **Level 2**

Glissando, slow, minor 6th
1 velocity layer
AB switch: up/down

15 HO1_gliss-sl-9 **Range: G3–F#5** **Samples: 18** **RAM: 1 MB** **Level 2**

Glissando, slow, major 6th
1 velocity layer
AB switch: up/down

16 HO1_gliss-sl-10 **Range: G3–G5** **Samples: 18** **RAM: 1 MB** **Level 2**

Glissando, slow, minor 7th
1 velocity layer
AB switch: up/down

17 HO1_gliss-sl-11 **Range: G3–F5** **Samples: 12** **RAM: 1 MB** **Level 2**

Glissando, slow, major 7th
1 velocity layer
AB switch: up/down

18 HO1_gliss-sl-12 **Range: G3–F#5** **Samples: 12** **RAM: 1 MB** **Level 2**

Glissando, slow, octave
1 velocity layer
AB switch: up/down

21 HO1_gliss-fa-5 **Range: G2–C5** **Samples: 50** **RAM: 3 MB** **Level 2**

Glissando, fast, up, 4th
2 velocity layers: 0–88 mf; 89–127 ff

22 HO1_gliss-fa-6 **Range: G2–B4** **Samples: 46** **RAM: 2 MB** **Level 2**

Glissando, fast, up, diminished 5th
2 velocity layers: 0–88 mf; 89–127 ff

23 HO1_gliss-fa-7 **Range: G2–A#4** **Samples: 42** **RAM: 2 MB** **Level 2**

Glissando, fast, up, 5th
2 velocity layers: 0–88 mf; 89–127 ff

24 HO1_gliss-fa-8 **Range: G2–G#4** **Samples: 42** **RAM: 2 MB** **Level 2**

Glissando, fast, up, minor 6th
2 velocity layers: 0–88 mf; 89–127 ff

25 HO1_gliss-fa-9 **Range: G2–A4** **Samples: 42** **RAM: 2 MB** **Level 2**

Glissando, fast, up, major 6th
2 velocity layers: 0–88 mf; 89–127 ff

26 HO1_gliss-fa-10 **Range: G2–G#4** **Samples: 42** **RAM: 2 MB** **Level 2**

Glissando, fast, up, minor 7th
2 velocity layers: 0–88 mf; 89–127 ff

27 HO1_gliss-fa-11 **Range: G2–F#4** **Samples: 36** **RAM: 2 MB** **Level 2**

Glissando, fast, up, major 7th
2 velocity layers: 0–88 mf; 89–127 ff

28 HO1_gliss-fa-12 **Range: G2–F4** **Samples: 36** **RAM: 2 MB** **Level 2**

Glissando, fast, up, octave
2 velocity layers: 0–88 mf; 89–127 ff

98 RESOURCES

Resources
Level 2: Isolated dynamics repetitions: Legato slow and fast, portato, and staccato
Single layer long notes

98 RESOURCES/01 Perf Rep dyn **Range: C2–D5**

01 HO1_rep_cre6_leg-sl-1 (2/3/4/5/6) **Samples: 17** **RAM: 1 MB** **Level 2**

Extracted repetitions: Legato, slow, crescendo, 1st to 6th note
1 velocity layer

01 HO1_rep_dim6_leg-sl-1 (2/3/4/5/6) **Samples: 17** **RAM: 1 MB** **Level 2**

Extracted repetitions: Legato, slow, diminuendo, 1st to 6th note
1 velocity layer

02 HO1_rep_cre6_leg-fa-1 (2/3/4/5/6) **Samples: 17** **RAM: 1 MB** **Level 2**

Extracted repetitions: Legato, fast, crescendo, 1st to 6th note
1 velocity layer

02 HO1_rep_dim6_leg-fa-1 (2/3/4/5/6) **Samples: 17** **RAM: 1 MB** **Level 2**

Extracted repetitions: Legato, fast, diminuendo, 1st to 6th note
1 velocity layer

03 HO1_rep_cre9_por-1 (2/3/4/5/6/7/8/9) **Samples: 17** **RAM: 1 MB** **Level 2**

Extracted repetitions: Portato, crescendo, 1st to 9th note
1 velocity layer

03 HO1_rep_dim9_por-1 (2/3/4/5/6/7/8/9) **Samples: 17** **RAM: 1 MB** **Level 2**

Extracted repetitions: Portato, diminuendo, 1st to 9th note
1 velocity layer

04 HO1_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 17** **RAM: 1 MB** **Level 2**

Extracted repetitions: Staccato, crescendo, 1st to 9th note
1 velocity layer

04 HO1_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 17** **RAM: 1 MB** **Level 2**

Extracted repetitions: Staccato, diminuendo, 1st to 9th note
1 velocity layer

98 RESOURCES/02 Long Notes - Single Layer Range: A#1–F5

01 HO1_sus_pp_noVib **Samples: 86** **RAM: 5 MB** **Level 2**

Sustained, pianissimo, without vibrato
1 velocity layer
Release samples

02 HO1_sus_p_noVib **Samples: 86** **RAM: 5 MB** **Level 2**

Sustained, piano, without vibrato
1 velocity layer
Release samples

03 HO1_sus_mp_noVib **Samples: 86** **RAM: 5 MB** **Level 2**

Sustained, mezzopiano, without vibrato
1 velocity layer
Release samples

04 HO1_sus_mf_noVib **Samples: 86** **RAM: 5 MB** **Level 2**

Sustained, mezzoforte, without vibrato
1 velocity layer
Release samples

05 HO1_sus_f_noVib **Samples: 86** **RAM: 5 MB** **Level 2**

Sustained, forte, without vibrato
1 velocity layer
Release samples

06 HO1_sus_ff_noVib **Samples: 86** **RAM: 5 MB** **Level 2**

Sustained, fortissimo, without vibrato
1 velocity layer
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 HO1 Articulation Combi — Samples: 1631 RAM: 101 MB — Level 1

Single note articulations
Staccato, portato short, sustained with and without vibrato, crescendo-diminuendo without vibrato 6 and 8 sec., fortepiano and sforzato, flutter tonguing normal and crescendo, trills half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
V1	stac	sus vib.	pfp no vib. 6s.	fp	flutter	trill half
V2	port. short	sus no vib.	pfp no vib. 8s.	sfz	flutter cres.	trill whole

L1 HO1 Perf-Legato Speed — Samples: 1266 RAM: 79 MB — Level 1

Interval performances
Legato with sustain crossfading, normal without vibrato, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	sus-XF	normal no vib.	fast

L1 HO1 Perf-Repetitions Combi — Samples: 1224 RAM: 76 MB — Level 1

Repetition performances
Legato medium
Portato
Staccato fast

Matrix switches: Vertical: Modwheel, 3 zones

	repetitions
V1	legato medium
V2	portato
V3	staccato fast

Matrix - LEVEL 2 A - Advanced

01 HO1 Perf-Universal — Samples: 2438 RAM: 152 MB — Level 2

Interval performances
Legato with sustain crossfading, normal without vibrato, and fast
Marcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones Vertical: Modwheel, 2 zones

	H1	H2	H3
legato	sus-XF	normal no vib.	fast
marcato	normal	normal	fast

02 HO1 Perf-Trill Speed
Samples: 1710 RAM: 106 MB **Level 2**

Multi interval performances
Legato without vibrato and trills
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato no vib.	trills

03 HO1 Short+Long notes
Samples: 2056 RAM: 128 MB **Level 2**

Single notes
Staccato, portato short and medium, portato long with and without vibrato
Sustained with and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	staccato	port. short	port.med.	port.long vib.	sus. vib.
V2	%	%	%	port.long no vib.	sus. no vib.

Matrix - LEVEL 2 B - Standard

11 HO1 Perf-Legato Speed
Samples: 1266 RAM: 79 MB **Level 2**

Interval performances
Legato with sustain crossfading, normal without vibrato, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	sus-XF	normal no vib.	fast

12 HO1 Perf-Marcato Speed
Samples: 1352 RAM: 84 MB **Level 2**

Interval performances
Marcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
marcato	normal	fast

13 HO1 Short notes
Samples: 2564 RAM: 160 MB **Level 2**

Single notes
Staccato, portato short and medium with normal and soft attack, and portato long without vibrato and marcato

Matrix switches: Horizontal: Keyswitches, C1–F#1

	C1	C#1	D1	D#1	E1	F1	F#1
V1	staccato	port.short norm.	port.short soft	port.med. norm.	port.med. soft	port.long no vib.	port.long marcato

14 HO1 Long notes - All
Samples: 562 RAM: 35 MB **Level 2**

Single notes
Sustained with and without vibrato, and blared

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
sustained	vibrato	no vibrato	blared

15 HO1 Dynamics - Small

Samples: 379 RAM: 23 MB Level 2

Dynamics
Medium crescendo and diminuendo without vibrato, 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.med. no vib.	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

16 HO1 Dynamics - Large

Samples: 1572 RAM: 98 MB Level 2

Dynamics
Light, medium, and strong crescendo and diminuendo without vibrato, 2, 3, 4, and 6 sec.
Crescendo-diminuendo without vibrato, 6 (2 variations) and 8 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 5 zones

	C1	C#1	D1	D#1
dyn.light no vib.	2 sec.	3 sec.	4 sec.	6 sec.
dyn.med. no vib.	2 sec.	3 sec.	4 sec.	6 sec.
dyn.str. no vib.	2 sec.	3 sec.	4 sec.	6 sec.
pfp no vib.	6 sec. v.1	6 sec. v.2	8 sec.	8 sec.
fp/sfz/sffz	fp	sfz	sffz	sffz

17 HO1 Flatter

Samples: 75 RAM: 4 MB Level 2

Flutter tonguing
Normal, crescendo, and normal/crescendo with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal	crescendo	Cell XF

18 HO1 Trills - All

Samples: 200 RAM: 12 MB Level 2

Trills normal, minor and major 2nd
Lip trills

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
V1	min 2nd	lip trills
V2	maj. 2nd	lip trills

19 HO1 Stopped Short+Long

Samples: 630 RAM: 39 MB Level 2

Single notes, stopped
Staccato, portato medium and long, sustained

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	staccato	port. medium	port. long	sustained

20 HO1 Stopped Dynamics — Samples: 330 RAM: 20 MB Level 2

Dynamics, stopped
Crescendo and diminuendo, 2, 3, 4, and 6 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1
Cres/dim	2 sec.	3 sec.	4 sec.	6 sec.
fp	%	%	%	%
sfz	%	%	%	%
sffz	%	%	%	%

Matrix - LEVEL 2 C - Repetitions

31 HO1 Perf-Repetitions - Combi — Samples: 1989 RAM: 124 MB Level 2

Repetition performances
Legato slow and medium, portato, and staccato slow and fast

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	legato slow	legato medium	portato	staccato slow	staccato fast

32 HO1 Perf-Repetitions - Speed — Samples: 1530 RAM: 95 MB Level 2

Repetition performances
Legato slow and medium, portato, and staccato fast
Speed controller

Matrix switches: Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato slow	legato medium	portato	staccato fast

33 HO1 Fast-Repetitions — Samples: 576 RAM: 36 MB Level 2

Fast repetitions: Staccato, 150–190 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	150	160	170	180	190

34 HO1 Upbeats a1 — Samples: 768 RAM: 48 MB Level 2

Repetitions: 1 upbeat, 90–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G1

	C1	C#1	D1	D#1	E1	F1	F#1	G1
speed/BPM	90	100	110	120	130	140	160	180

35 HO1 Upbeats a2 — Samples: 864 RAM: 54 MB Level 2

Repetitions: 2 upbeats, 90–140, 160, 180, and 200 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

36 HO1 Upbeats a3 — Samples: 864 RAM: 54 MB Level 2

Repetitions: 3 upbeats, 90–140, 160, 180, and 200 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

37 HO1 Upbeats all — Samples: 2496 RAM: 156 MB Level 2

Repetitions: 1–3 upbeats, 90–140, 160, 180, and 200 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
1 upbeat	90	100	110	120	130	140	160	180	180
2 upbeats	90	100	110	120	130	140	160	180	200
3 upbeats	90	100	110	120	130	140	160	180	200

Matrix - LEVEL 2 D - Scale+Phrase

41 HO1 Grace notes - All — Samples: 490 RAM: 30 MB Level 2

Grace notes, minor and major 2nd
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
interval	min. 2nd	maj. 2nd

Matrix - LEVEL 2 E - Keyswitch Vel

71 HO1 Legato slow - cre6 — Samples: 102 RAM: 6 MB Level 2

Slow legato notes: Crescendo, keyswitch velocity
Keyswitches control 6 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
velocity	1st	2nd	3rd	4th	5th	6th

72 HO1 Legato fast - cre6 — Samples: 102 RAM: 6 MB Level 2

Fast legato notes: Crescendo, keyswitch velocity
Keyswitches control 6 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
velocity	1st	2nd	3rd	4th	5th	6th

73 HO1 Portato - cre9 — Samples: 153 RAM: 9 MB Level 2

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 HO1 Staccato - cre9

Samples: 153 **RAM: 9 MB** **Level 2**

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

75 HO1 Combi - cre6

Samples: 204 **RAM: 12 MB** **Level 2**

Slow and fast legato: Crescendo, keyswitch velocity
Keyswitches control 6 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
legato slow	1st	2nd	3rd	4th	5th	6th
legato fast	1st	%	%	%	%	%

76 HO1 Combi - cre9

Samples: 306 **RAM: 19 MB** **Level 2**

Portato and staccato: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

77 HO1 Legato slow - dim6

Samples: 102 **RAM: 6 MB** **Level 2**

Slow legato notes: Diminuendo, keyswitch velocity
Keyswitches control 6 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
velocity	1st	2nd	3rd	4th	5th	6th

78 HO1 Legato fast - dim6

Samples: 102 **RAM: 6 MB** **Level 2**

Fast legato notes: Diminuendo, keyswitch velocity
Keyswitches control 6 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
velocity	1st	2nd	3rd	4th	5th	6th

79 HO1 Portato - dim9

Samples: 153 **RAM: 9 MB** **Level 2**

Portato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

80 HO1 Staccato - dim9 — Samples: 153 RAM: 9 MB Level 2

Staccato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

81 HO1 Combi - dim6 — Samples: 204 RAM: 12 MB Level 2

Slow and fast legato: Diminuendo, keyswitch velocity
Keyswitches control 6 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
legato slow	1st	2nd	3rd	4th	5th	6th
legato fast	1st	%	%	%	%	%

82 HO1 Combi - dim9 — Samples: 306 RAM: 19 MB Level 2

Portato and staccato: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

HO1 VSL Preset Level 1 — Samples: 3911 RAM: 244 MB Level 1

L1 HO1 Perf-Legato Speed
L1 HO1 Articulation Combi
L1 HO1 Perf-Repetitions Combi
Preset keyswitches: C6-D6

HO1 VSL Preset Level 2 — Samples: 6792 RAM: 424 MB Level 2

01 HO1 Perf-Universal
02 HO1 Perf-Trill Speed
L1 HO1 Articulation Combi
31 HO1 Perf-Repetitions - Combi
76 HO1 Combi - cre9
Preset keyswitches: C6–E6

56 Tenor trombone

Description

The tenor trombone in Bb is, like the trumpet, played with a cup-shaped mouthpiece. The trombone is the oldest brass wind instrument with a chromatic scale – thanks to its slide, which distinguishes it from all other brass instruments.

The trombone section in the modern orchestra uses four trombones, usually two tenor and two tenor-bass trombones.

Range and notation

The tenor trombone has a range from E2–F5.

Notation in the tenor (higher register) and bass clefs (lower register), no transposition.

Sound characteristics

Brassy, brilliant, powerful, overpowering, solid, tense, penetrating, dramatic, hard, full, sinister, soft, round.

The low notes sound threatening when played *forte*, mysterious and full when played *piano*. They are used for weighty and portentous themes and as bass in harmony sequences.

The middle register sounds metallic, mighty, sometimes blaring and heroic when played *forte*.

In the upper register the sound becomes more brilliant and can reach sweeping intensity. The mellowness increases.

Combination with other instruments

Good tonal blend with the other brass instruments.

The combination of deep woodwinds with the trombone principally serves the reinforcement of sound.

The combination with strings does not generally produce homogeneity. The trombone supports and fleshes out the deep strings.

Patches

01 SHORT + LONG NOTES — Range: C2–A#4

Single notes

Level 1: Staccato
Portato short
Sustained with light and without vibrato

Level 2: Portato short, soft attack
Portato medium, normal and soft attack, and marcato
Portato long with and without vibrato, soft attack, and marcato
Sustained with progressive and strong vibrato

01 TTB_staccato — Range: C2–D5 — Samples: 392 — RAM: 24 MB — Level 1

Staccato
6 velocity layers: 0–28 pp; 29–55 p; 56–88 mp; 89–108 mf; 109–118 f; 119–127 ff
4 Alternations

02 TTB_portato_short — Range: C2–D5 — Samples: 328 — RAM: 20 MB — Level 1

Portato, short
5 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–118 f; 119–127 ff
4 Alternations

03 TTB_portato_short_soft — Samples: 336 — RAM: 21 MB — Level 2

Portato, short, soft attack
6 velocity layers: 0–28 pp; 29–55 p; 56–88 mp; 89–108 mf; 109–118 f; 119–127 ff
4 Alternations

04 TTB_portato_medium — Range: C2–D5 — Samples: 396 — RAM: 24 MB — Level 2

Portato, medium
6 velocity layers: 0–28 pp; 29–55 p; 56–88 mp; 89–108 mf; 109–118 f; 119–127 ff
4 Alternations

05 TTB_portato_medium_soft — Samples: 279 — RAM: 17 MB — Level 2

Portato, medium, soft attack
5 velocity layers: 0–28 pp; 29–55 p; 56–88 mp; 89–108 mf; 109–127 f
4 Alternations

06 TTB_portato_medium_marc — Samples: 224 — RAM: 14 MB — Level 2

Portato, medium, marcato
4 velocity layers: 0–55 mp; 56–88 mf; 89–108 f; 109–127 ff
4 Alternations

07 TTB_portato_long_Vib — Samples: 300 — RAM: 18 MB — Level 2

Portato, long, with vibrato
6 velocity layers: 0–28 pp; 29–55 p; 56–88 mp; 89–108 mf; 109–118 f; 119–127 ff
Release samples
2 Alternations

08 TTB_portato_long_Vib_soft **Samples: 244** **RAM: 15 MB** **Level 2**

Portato, long, with vibrato, soft attack
4 velocity layers: 0–55 pp; 56–88 mp; 89–108 f; 109–127 ff
Release samples
2 Alternations

09 TTB_portato_long_noVib **Range: C2–D5** **Samples: 328** **RAM: 20 MB** **Level 2**

Portato, long, without vibrato
6 velocity layers: 0–28 pp; 29–55 p; 56–88 mp; 89–108 mf; 109–118 f; 119–127 ff
Release samples
2 Alternations

10 TTB_portato_long_marc **Samples: 246** **RAM: 15 MB** **Level 2**

Portato, long, marcato
4 velocity layers: 0–55 mp; 56–88 mf; 89–108 f; 109–127 ff
Release samples
2 Alternations

21 TTB_sus_Vib_progr **Samples: 244** **RAM: 15 MB** **Level 2**

Sustained, progressive vibrato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples

22 TTB_sus_Vib_light **Samples: 244** **RAM: 15 MB** **Level 1**

Sustained, light vibrato
4 velocity layers: 0–55 p; 56–88 mf; 89–108 f; 109–127 fff
Release samples

23 TTB_sus_Vib_strong **Samples: 300** **RAM: 18 MB** **Level 2**

Sustained, strong vibrato
6 velocity layers: 0–28 pp; 29–55 p; 56–88 mp; 89–108 mf; 109–118 f; 119–127 ff
Release samples

24 TTB_sus_noVib **Range: C2–D5** **Samples: 297** **RAM: 18 MB** **Level 1**

Sustained, without vibrato
5 velocity layers: 0–55 pp; 56–88 mp; 89–108 mf; 109–118 f; 119–127 ff
Release samples

02 DYNAMICS Range: C2–A#4

Dynamics

Level 1: Crescendo-diminuendo without vibrato, 6 sec.
Fortepiano, sforzato

Level 2: Light crescendo and diminuendo with vibrato, 1.5, 2, 3, and 4 sec.; without vibrato, 1, 1.5, 2, 3, 4, and 6 sec.
Medium crescendo and diminuendo with and without vibrato, 1.5 (no vib.), 2, 3, 4, and 6 sec.
Strong crescendo and diminuendo with vibrato, 4 sec.; without vibrato, 2, 3, 4, and 6 sec.
Sforzatissimo

01 TTB_dyn-li_Vib_1'5s — Samples: 168 — RAM: 10 MB — Level 2

Light crescendo and diminuendo with vibrato, 1.5 sec.
3 velocity layers: 0–55 p-mp/mp-pp; 56–108 mp-mf/mf-mp; 109–127 mf-f/f-mf
AB switch: crescendo/diminuendo

02 TTB_dyn-li_Vib_2s — Samples: 168 — RAM: 10 MB — Level 2

Light crescendo and diminuendo with vibrato, 2 sec.
3 velocity layers: 0–55 p-mp/mp-pp; 56–108 mp-mf/mf-mp; 109–127 mf-f/f-mf
AB switch: crescendo/diminuendo

03 TTB_dyn-li_Vib_3s — Samples: 168 — RAM: 10 MB — Level 2

Light crescendo and diminuendo with vibrato, 3 sec.
3 velocity layers: 0–55 pp-mp/mp-pp; 56–108 mp-mf/mf-mp; 109–127 mf-f/f-mf
AB switch: crescendo/diminuendo

04 TTB_dyn-li_Vib_4s — Samples: 168 — RAM: 10 MB — Level 2

Light crescendo and diminuendo with vibrato, 4 sec.
3 velocity layers: 0–55 pp-mp/mp-pp; 56–108 mp-mf/mf-mp; 109–127 mf-f/f-mf
AB switch: crescendo/diminuendo

11 TTB_dyn-li_noVib_1s — Samples: 224 — RAM: 14 MB — Level 2

Light crescendo and diminuendo without vibrato, 1 sec.
4 velocity layers: 0–55 pp-p/p-pp; 56–88 p-mf/mf-p; 88–108 mf-f/f-mp; 109–127 f-ff/ff-f
AB switch: crescendo/diminuendo

12 TTB_dyn-li_noVib_1'5s — Samples: 224 — RAM: 14 MB — Level 2

Light crescendo and diminuendo without vibrato, 1.5 sec.
4 velocity layers: 0–55 pp-p/p-pp; 56–88 p-mf/mf-p; 88–108 mf-f/f-mp; 109–127 f-ff/ff-f
AB switch: crescendo/diminuendo

13 TTB_dyn-li_noVib_2s — Samples: 224 — RAM: 14 MB — Level 2

Light crescendo and diminuendo without vibrato, 2 sec.
4 velocity layers: 0–55 pp-p/p-pp; 56–88 p-mf/mf-p; 88–108 mf-f/f-mf; 109–127 f-ff/ff-f
AB switch: crescendo/diminuendo

14 TTB_dyn-li_noVib_3s — Samples: 224 — RAM: 14 MB — Level 2

Light crescendo and diminuendo without vibrato, 3 sec.
4 velocity layers: 0–55 pp-p/p-pp; 56–88 p-mf/mf-p; 88–108 mf-f/f-mf; 109–127 f-ff/ff-f
AB switch: crescendo/diminuendo

15 TTB_dyn-li_noVib_4s **Samples: 224** **RAM: 14 MB** **Level 2**

Light crescendo and diminuendo without vibrato, 4 sec.
4 velocity layers: 0–55 pp-p/p-pp; 56–88 p-mf/mf-p; 88–108 mf-f/f-mf; 109–127 f-ff/ff-f
AB switch: crescendo/diminuendo

16 TTB_dyn-li_noVib_6s **Samples: 224** **RAM: 14 MB** **Level 2**

Light crescendo and diminuendo without vibrato, 6 sec.
4 velocity layers: 0–55 pp-p/p-pp; 56–88 p-mf/mf-p; 88–108 mf-f/f-mf; 109–127 f-ff/ff-f
AB switch: crescendo/diminuendo

21 TTB_dyn-me_Vib_2s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo with vibrato, 2 sec.
2 velocity layers: 0–88 pp-mf/mf-p; 89–127 mp-f/ff-mf
AB switch: crescendo/diminuendo

22 TTB_dyn-me_Vib_3s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo with vibrato, 3 sec.
2 velocity layers: 0–88 pp-mf/mf-p; 89–127 mp-f/ff-mf
AB switch: crescendo/diminuendo

23 TTB_dyn-me_Vib_4s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo with vibrato, 4 sec.
2 velocity layers: 0–88 pp-mf/mf-p; 89–127 mp-f/ff-mf
AB switch: crescendo/diminuendo

24 TTB_dyn-me_Vib_6s **Samples: 133** **RAM: 8 MB** **Level 2**

Medium crescendo and diminuendo with vibrato, 6 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

31 TTB_dyn-me_noVib_1'5s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo without vibrato, 1.5 sec.
2 velocity layers: 0–88 pp-mf/mf-pp; 89–127 mf-ff/ff-mp
AB switch: crescendo/diminuendo

32 TTB_dyn-me_noVib_2s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo without vibrato, 2 sec.
2 velocity layers: 0–88 pp-mf/mf-pp; 89–127 mf-ff/ff-mp
AB switch: crescendo/diminuendo

33 TTB_dyn-me_noVib_3s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo without vibrato, 3 sec.
2 velocity layers: 0–88 pp-mf/mf-pp; 89–127 mf-ff/ff-mp
AB switch: crescendo/diminuendo

34 TTB_dyn-me_noVib_4s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo without vibrato, 4 sec.
2 velocity layers: 0–88 pp-mf/mf-pp; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

35 TTB_dyn-me_noVib_6s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo without vibrato, 6 sec.
2 velocity layers: 0–88 pp-mf/mf-pp; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

41 TTB_dyn-str_Vib_4s **Samples: 56** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo with vibrato, 4 sec.
1 velocity layer: 0–127 pp-ff/f-p
AB switch: crescendo/diminuendo

51 TTB_dyn-str_noVib_2s **Samples: 56** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo without vibrato, 2 sec.
1 velocity layer: 0–127 pp-ff/ff-pp
AB switch: crescendo/diminuendo

52 TTB_dyn-str_noVib_3s **Samples: 56** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo without vibrato, 3 sec.
1 velocity layer: 0–127 pp-ff/ff-pp
AB switch: crescendo/diminuendo

53 TTB_dyn-str_noVib_4s **Samples: 59** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo without vibrato, 4 sec.
1 velocity layer: 0–127 pp-ff/ff-pp
AB switch: crescendo/diminuendo

54 TTB_dyn-str_noVib_6s **Samples: 59** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo without vibrato, 6 sec.
1 velocity layer: 0–127 pp-ff/ff-pp
AB switch: crescendo/diminuendo

61 TTB_pfp_noVib_6s **Samples: 28** **RAM: 1 MB** **Level 1**

Crescendo-diminuendo without vibrato, 6 sec.
1 velocity layer: 0–127 mf-f

71 TTB_fp **Range: C2–D5** **Samples: 33** **RAM: 2 MB** **Level 1**

Fortepiano
1 velocity layer

72 TTB_sfz **Range: C2–D5** **Samples: 33** **RAM: 2 MB** **Level 1**

Sforzato
1 velocity layer

73 TTB_sffz **Range: C2–D5** **Samples: 33** **RAM: 2 MB** **Level 2**

Sforzatissimo
1 velocity layer

03 FLATTER — Range: C2–A#4

Single notes
Level 1: Flutter tonguing, normal and crescendo

01 TTB_flatter — Samples: 56 — RAM: 3 MB — Level 1

Flutter tonguing
1 velocity layer: 0–127 ff
Release samples

02 TTB_flatter_cre — Samples: 28 — RAM: 1 MB — Level 1

Flutter tonguing, crescendo
1 velocity layer

10 PERF INTERVAL — Range: C2–D5

Interval performances
Level 1: Legato without vibrato
Level 2: Legato without vibrato, sustain crossfading
Legato with vibrato, normal and with sustain crossfading
Marcato

01 TTB_perf-legato_noVib — Samples: 811 — RAM: 50 MB — Level 1

Legato, without vibrato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 TTB_perf-legato_noVib_sus — Samples: 976 — RAM: 61 MB — Level 2

Legato, without vibrato
Sustain crossfading
Monophonic
4 velocity layers: Legato: 0–88 p; 89–127 f
Sustained: 0–55 pp; 56–88 mp; 89–108 mf; 109–127 f
Release samples

03 TTB_perf-legato_Vib — Range: C2–A#4 — Samples: 746 — RAM: 46 MB — Level 2

Legato, with vibrato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

04 TTB_perf-legato_Vib_sus — Range: C2–A#4 — Samples: 774 — RAM: 48 MB — Level 2

Legato, with vibrato
Sustain crossfading
Monophonic
3 velocity layers: Legato: 0–88 p; 89–127 f
Sustained: 0–55 pp; 56–88 mp; 89–127 f
Release samples

04 TTB_perf-marcato **Samples: 1236 RAM: 77 MB** **Level 2**

Marcato
Monophonic
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff
Release samples

11 PERF INTERVAL FAST

Range: C2–A#4

Fast interval performances
Level 1: Legato
Level 2: Marcato

01 TTB_perf-legato_fa **Samples: 844 RAM: 52 MB** **Level 1**

Legato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 TTB_perf-marcato_fa **Samples: 848 RAM: 53 MB** **Level 2**

Marcato, fast
Monophonic
2 velocity layers: 0–108 p; 109–127 ff
Release samples

12 PERF TRILL

Range: C2–D5

Multi interval performances
Level 2: Trills, legato, minor 2nd to major 3rd

01 TTB_perf-trill **Samples: 2043 RAM: 127 MB** **Level 2**

Performance trills, legato, minor 2nd to major 3rd
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

13 PERF REPETITION

Range: C2–A#4

Repetition performances
Level 1: Legato
Portato
Staccato fast
Level 2: Staccato slow
Dynamics for all repetitions

01 TTB_perf-rep_leg **Samples: 180 RAM: 11 MB** **Level 1**

Legato
2 velocity layers: 0–88 p; 89–127 mf

02 TTB_perf-rep_por **Samples: 405** **RAM: 25 MB** **Level 1**

Portato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

03 TTB_perf-rep_sta-sl **Samples: 405** **RAM: 25 MB** **Level 1**

Staccato, slow
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

04 TTB_perf-rep_sta-fa **Samples: 405** **RAM: 25 MB** **Level 2**

Staccato, fast
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

11 TTB_perf-rep_dyn6_leg-sl **Samples: 180** **RAM: 11 MB** **Level 2**

Legato dynamics, 6 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

12 TTB_perf-rep_dyn9_por **Samples: 270** **RAM: 16 MB** **Level 2**

Portato dynamics, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

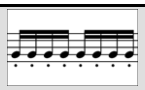
13 TTB_perf-rep_dyn9_sta-sl **Samples: 270** **RAM: 16 MB** **Level 2**

Staccato dynamics, slow, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

14 TTB_perf-rep_dyn9_sta-fa **Samples: 270** **RAM: 16 MB** **Level 2**

Staccato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

14 FAST REPETITION **Range: D2–A4**



Fast repetitions
Level 2: Staccato, 9 repetitions, 150 to 190 BPM
Normal and dynamics

01 TTB_fast-rep_150 (160/170/180/190) **Samples: 168** **RAM: 10 MB** **Level 2**

Staccato repetitions, 150–190 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff
Release samples

11 TTB_fast-rep_150_dyn (160/170/180/190) **Samples: 56** **RAM: 3 MB** **Level 2**

Staccato repetitions, dynamics, 150–190 BPM
1 velocity layer
AB switch: crescendo/diminuendo

15 UPBEAT REPETITION

Upbeat repetitions
Level 2: 1 and 2 upbeats, 80–140, 160, 180, 200, and 220 BPM
3 upbeats, 80–140, 160, and 180 BPM

15 UPBEAT REPETITION/A Single Upbeat Range: D2–A4

01 TTB_UB-a1_80 (90/100/110/120/130/140/160/180/200/220) Samples: 84 RAM: 5 MB Level 2

1 upbeat, 80–140, 160, 180, 200, and 220 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

15 UPBEAT REPETITION/B Double Upbeats Range: D2–A4

01 TTB_UB-a2_80 (90/100/110/120/130/140/160/180/200/220) Samples: 84 RAM: 5 MB Level 2

2 upbeats, 80–140, 160, 180, 200, and 220 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

15 UPBEAT REPETITION/C Triple Upbeats Range: D2–A4

01 TTB_UB-a3_80 (90/100/110/120/130/140/160/180) Samples: 84 RAM: 5 MB Level 2

3 upbeats, 80–140, 160, and 180 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

16 GRACE NOTES Range: C2–A#6

Phrases
Level 2: Grace notes
Minor and major 2nd
Up and down
The samples are mapped to the target note

01 TTB_grace-1 Samples: 294 RAM: 18 MB Level 2

Phrases
Grace notes, minor 2nd
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff
Release samples
AB switch: up/down

02 TTB_grace-2 Samples: 288 RAM: 18 MB Level 2

Phrases
Grace notes, major 2nd
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff
Release samples
AB switch: up/down

17 GLISSANDI Range: C2–C5

Interval performances/Phrases

Level 2: Performance glissandos, fast and slow, minor 2nd to diminished 5th
Fixed glissandos, fast, minor 2nd to diminished 5th, up and down
Fixed glissandos, slow, minor 3rd to diminished 5th, up and down
Please note that fixed glissandos have different up and down ranges.

01 TTB_perf-gliss_fa **Range: C2–D5** **Samples: 911** **RAM: 56 MB** **Level 2**

Interval performances: Glissando, fast
Minor 2nd to diminished 5th
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 TTB_perf-gliss_sl **Range: C2–D5** **Samples: 927** **RAM: 57 MB** **Level 2**

Interval performances: Glissando, slow
Minor 2nd to diminished 5th
2 velocity layers: 0–88 p; 89–127 f
Release samples

11 TTB_gliss-fa-1 **Samples: 120** **RAM: 7 MB** **Level 2**

Glissando, fast, minor 2nd
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

12 TTB_gliss-fa-2 **Samples: 108** **RAM: 6 MB** **Level 2**

Glissando, fast, major 2nd
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

13 TTB_gliss-fa-3 **Samples: 92** **RAM: 5 MB** **Level 2**

Glissando, fast, minor 3rd
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

14 TTB_gliss-fa-4 **Samples: 76** **RAM: 4 MB** **Level 2**

Glissando, fast, major 3rd
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

15 TTB_gliss-fa-5 **Samples: 52** **RAM: 3 MB** **Level 2**

Glissando, fast, 4th
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

16 TTB_gliss-fa-6 **Samples: 24** **RAM: 1 MB** **Level 2**

Glissando, fast, diminished 5th
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

21 TTB_gliss-sl-3 **Samples: 100** **RAM: 6 MB** **Level 2**

Glissando, slow, minor 3rd
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

22 TTB_gliss-sl-4 **Samples: 79** **RAM: 4 MB** **Level 2**

Glissando, slow, major 3rd
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

23 TTB_gliss-sl-5 **Samples: 52** **RAM: 3 MB** **Level 2**

Glissando, slow, 4th
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

24 TTB_gliss-sl-6 **Samples: 28** **RAM: 1 MB** **Level 2**

Glissando, slow, diminished 5th
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS

Phrases
Level 2: Arpeggios, staccato
Diminished, major and minor from C to B key
Up and down
2 speeds for all

18 ARPEGGIOS/Staccato diminished **Range: D2–G4**

01 TTB_arp-sta_dm **Samples: 48** **RAM: 3 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
Diminished
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS/Staccato diminished fast **Range: D2–G4**

01 TTB_arp-sta+_dm **Samples: 48** **RAM: 3 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
Diminished
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS/Staccato major

01 TTB_arp-sta_C-ma (through to B-ma) **Samples: 20** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
C to B major
Mapping (according to key, here for C major): C – base, E – 1st inversion, G – 2nd inversion
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS/Staccato major fast

01 TTB_arp-sta+_C-ma (through to B-ma) **Samples: 20** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
C to B major
Mapping (according to key, here for C major): C – base, E – 1st inversion, G – 2nd inversion
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS/Staccato minor

01 TTB_arp-sta_C-mi (through to B-mi) **Samples: 16** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
C to B minor
Mapping (according to key, here for C minor): C – base, D#/Eb – 1st inversion, G – 2nd inversion
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS/Staccato minor fast

01 TTB_arp-sta_C-mi+ (through to B-mi) **Samples: 16** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
C to B minor
Mapping (according to key, here for C minor): C – base, D#/Eb – 1st inversion, G – 2nd inversion
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

98 RESOURCES

Resources
Level 1: Performance speed variations: Legato, slow
Level 2: Isolated dynamics repetitions: Legato, portato, staccato
Single layer long notes

98 RESOURCES/01 Perf Rep dyn Range: C2–A#4

01 TTB_rep_cre6_leg-1 (2/3/4/5/6) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, crescendo, 1st to 6th note
1 velocity layer

01 TTB_rep_dim6_leg-1 (2/3/4/5/6) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, diminuendo, 1st to 6th note
1 velocity layer

02 TTB_rep_cre9_por-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, crescendo, 1st to 9th note
1 velocity layer

02 TTB_rep_dim9_por-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, diminuendo, 1st to 9th note
1 velocity layer

03 TTB_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Staccato, crescendo, 1st to 9th note
1 velocity layer

03 TTB_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Staccato, diminuendo, 1st to 9th note
1 velocity layer

98 RESOURCES/02 Long Notes - Single Layer Range: C2–D5

01 TTB_sus_pp_noVib **Samples: 66** **RAM: 4 MB** **Level 2**
Sustained, pianissimo, without vibrato
1 velocity layer
Release samples

02 TTB_sus_p_noVib **Samples: 66** **RAM: 4 MB** **Level 2**
Sustained, piano, without vibrato
1 velocity layer
Release samples

03 TTB_sus_mf_noVib **Samples: 66** **RAM: 4 MB** **Level 2**
Sustained, mezzoforte, without vibrato
1 velocity layer
Release samples

04 TTB_sus_f_noVib **Samples: 66** **RAM: 4 MB** **Level 2**

Sustained, forte, without vibrato
1 velocity layer
Release samples

05 TTB_sus_ff_noVib **Samples: 66** **RAM: 4 MB** **Level 2**

Sustained, fortissimo, without vibrato
1 velocity layer
Release samples

98 RESOURCES/03 Perf Speed variation

01 TTB_perf-legato_noVib_slow **Range: C2–D5** **Samples: 877** **RAM: 54 MB** **Level 1**

Interval performances
Legato, slow, without vibrato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 TTB Articulation Combi — Samples: 1307 RAM: 81 MB — Level 1

Single note articulations
Staccato, portato short, sustained with light and without vibrato, crescendo-diminuendo without vibrato 6 sec., fortepiano and sforzato, flutter tonguing normal and crescendo

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	stac	sus light vib.	pfp no vib. 6s.	fp	flutter
V2	port. short	sus no vib.	pfp no vib. 6s.	sfz	flutter cres.

L1 TTB Perf-Legato Speed — Samples: 1093 RAM: 68 MB — Level 1

Interval performances
Legato slow and normal without vibrato, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow no vib.	normal no vib.	fast

L1 TTB Perf-Repetitions Combi — Samples: 990 RAM: 61 MB — Level 1

Repetition performances
Legato
Portato
Staccato slow

Matrix switches: Vertical: Modwheel, 3 zones

	repetitions
V1	legato
V2	portato
V3	staccato slow

Matrix - LEVEL 2 A - Advanced

01 TTB Perf-Universal — Samples: 2417 RAM: 151 MB — Level 2

Interval performances
Legato slow and normal without vibrato, and fast
Marcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones Vertical: Modwheel, 2 zones

	H1	H2	H3
legato	slow no vib.	normal no vib.	fast
marcato	normal	normal	fast

02 TTB Perf-Trill Speed

Samples: 2299 RAM: 143 MB **Level 2**

Multi interval performances
Legato without vibrato, and trills
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato no vib.	trills

03 TTB Short+Long notes

Samples: 2169 RAM: 135 MB **Level 2**

Single notes
Staccato, portato short and medium, portato long with and without vibrato
Sustained with light, strong, progressive, and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1
V1	staccato	port. short	port.med.	port.long vib.	sus. light vib.
V2	%	%	%	port.long vib.	sus. strong vib.
V3	%	%	%	port.long vib.	sus. prog. vib.
V4	%	%	%	port.long no vib.	sus. no vib.

Matrix - LEVEL 2 B - Standard

11 TTB Perf-Legato Speed

Samples: 1093 RAM: 68 MB **Level 2**

Interval performances
Legato slow and normal without vibrato, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow no vib.	normal no vib.	fast

12 TTB Perf-Marcato Speed

Samples: 1456 RAM: 91 MB **Level 2**

Interval performances
Marcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
marcato	normal	fast

13 TTB Short notes

Samples: 1955 RAM: 122 MB **Level 2**

Single notes
Staccato, portato short with normal and soft attack, portato medium with normal and soft attack, and marcato

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	staccato	port.short norm.	port.short soft	port.med. norm.	port.med. soft	port.med. marcato

14 TTB Long notes - All

Samples: 689 RAM: 43 MB Level 2

Single notes
Sustained with light, strong, progressive, and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
sustained	light vib.	strong vib.	progr. vib.	no vib.

15 TTB Dynamics - Small

Samples: 435 RAM: 27 MB Level 2

Dynamics
Medium crescendo and diminuendo with vibrato, 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.med. vib.	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

16 TTB Dynamics - Large

Samples: 1218 RAM: 76 MB Level 2

Dynamics
Medium crescendo and diminuendo with and without vibrato, 2, 3, 4, and 6 sec.
Strong crescendo and diminuendo without vibrato, 2, 3, 4, and 6 sec.
Crescendo-diminuendo without vibrato, 6 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 5 zones

	C1	C#1	D1	D#1
dyn.med. vib.	2 sec.	3 sec.	4 sec.	6 sec.
dyn.med. no vib.	2 sec.	3 sec.	4 sec.	6 sec.
dyn.str. no vib.	2 sec.	3 sec.	4 sec.	6 sec.
pfp no vib.	6 sec.	%	%	%
fp/sfz/sffz	fp	sfz	sffz	sffz

17 TTB Flatter

Samples: 84 RAM: 5 MB Level 2

Flutter tonguing
Normal, crescendo, and normal/crescendo with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal	crescendo	Cell XF

Matrix - LEVEL 2 C - Repetitions

31 TTB Perf-Repetitions - Combi

Samples: 1395 RAM: 87 MB Level 2

Repetition performances
Legato, portato, and staccato slow and fast

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	legato	portato	staccato slow	staccato fast

32 TTB Perf-Repetitions - Speed
Samples: 1395 RAM: 87 MB **Level 2**

Repetition performances
Legato, portato, and staccato slow and fast
Speed controller

Matrix switches: Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato	portato	staccato slow	staccato fast

33 TTB Fast-Repetitions
Samples: 504 RAM: 31 MB **Level 2**

Fast repetitions: Staccato, 150–190 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	150	160	170	180	190

34 TTB Upbeats a1
Samples: 924 RAM: 57 MB **Level 2**

Repetitions: 1 upbeat, 80–140, 160, 180, 200, and 220 BPM

Matrix switches: Horizontal: Keyswitches, C1–A#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1
speed/BPM	80	90	100	110	120	130	140	160	180	200	220

35 TTB Upbeats a2
Samples: 899 RAM: 56 MB **Level 2**

Repetitions: 2 upbeats, 80–140, 160, 180, 200, and 220 BPM

Matrix switches: Horizontal: Keyswitches, C1–A#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1
speed/BPM	80	90	100	110	120	130	140	160	180	200	220

36 TTB Upbeats a3
Samples: 756 RAM: 47 MB **Level 2**

Repetitions: 3 upbeats, 80–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

37 TTB Upbeats all
Samples: 2579 RAM: 161 MB **Level 2**

Repetitions: 1–3 upbeats, 80–140, 160, 180, 200, and 220 BPM

Matrix switches: Horizontal: Keyswitches, C1–A#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1
1 upbeat	80	90	100	110	120	130	140	160	180	200	220
2 upbeats	80	90	100	110	120	130	140	160	180	200	220
3 upbeats	80	90	100	110	120	130	140	160	180	180	180

Matrix - LEVEL 2 D - Scale+Phrase

41 TTB Arpeggios-staccato - Major
Samples: 108 RAM: 6 MB **Level 2**

Arpeggios, staccato, 16ths at 120 BPM, C to B major
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

42 TTB Arpeggios-staccato - Major+

Samples: 108 **RAM: 6 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM, C to B major
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj. fast	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

43 TTB Arpeggios-staccato - Minor

Samples: 96 **RAM: 6 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM, C to B minor
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

44 TTB Arpeggios-staccato - Minor+

Samples: 96 **RAM: 6 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM, C to B minor
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min. fast	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

45 TTB Arpeggios-staccato - All

Samples: 252 **RAM: 15 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM, C to B major and minor, diminished
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
minor	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
diminished	%	%	%	%	%	%	%	%	%	%	%	%

46 TTB Arpeggios-staccato - All+

Samples: 252 **RAM: 15 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM, C to B major and minor, diminished
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
minor	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
diminished	%	%	%	%	%	%	%	%	%	%	%	%

51 TTB Grace notes - All

Samples: 450 **RAM: 28 MB** **Level 2**

Grace notes, minor and major 2nd
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
interval	min. 2nd	maj. 2nd

Matrix - LEVEL 2 E - Keyswitch Vel

71 TTB Legato - cre6 — Samples: 90 RAM: 5 MB Level 2

Legato notes: Crescendo, keyswitch velocity
Keyswitches control 6 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
velocity	1st	2nd	3rd	4th	5th	6th

72 TTB Portato - cre9 — Samples: 135 RAM: 8 MB Level 2

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

73 TTB Staccato - cre9 — Samples: 135 RAM: 8 MB Level 2

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 TTB Combi - cre9 — Samples: 270 RAM: 16 MB Level 2

Portato and staccato: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

75 TTB Legato - dim6 — Samples: 90 RAM: 5 MB Level 2

Legato notes: Diminuendo, keyswitch velocity
Keyswitches control 6 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
velocity	1st	2nd	3rd	4th	5th	6th

76 TTB Portato - dim9 — Samples: 135 RAM: 8 MB Level 2

Portato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

77 TTB Staccato - dim9

Samples: 135 RAM: 8 MB Level 2

Staccato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

78 TTB Combi - dim9

Samples: 270 RAM: 16 MB Level 2

Portato and staccato: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

TTB VSL Preset Level 1

Samples: 3192 RAM: 199 MB Level 1

L1 TTB Perf-Legato Speed
L1 TTB Articulation Combi
L1 TTB Perf-Repetitions Combi
Preset keyswitches: C6–D6

TTB VSL Preset Level 2

Samples: 6646 RAM: 415 MB Level 2

01 TTB Perf-Universal
02 TTB Perf-Trill Speed
L1 TTB Articulation Combi
31 TTB Perf-Repetitions - Combi
74 TTB Combi - cre9
Preset keyswitches: C6–E6

56 Tenor trombone - mute A

Patches

01 SHORT + LONG NOTES — Range: C2–D5

Single notes
Level 1: Staccato
Portato short
Sustained with progressive and without vibrato
Level 2: Portato medium
Portato long with vibrato

01 TTB-muA_staccato — **Samples: 198** **RAM: 12 MB** **Level 1**
Staccato
3 velocity layers: 0–55 p; 56–108 f; 109–127 ff
4 Alternations

02 TTB-muA_portato_short — **Samples: 198** **RAM: 12 MB** **Level 1**
Portato, short
3 velocity layers: 0–55 pp; 56–108 mp; 109–127 mf
4 Alternations

03 TTB-muA_portato_medium — **Samples: 198** **RAM: 12 MB** **Level 2**
Portato, medium
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
4 Alternations

04 TTB-muA_portato_long_Vib — **Samples: 68** **RAM: 4 MB** **Level 2**
Portato, long, with vibrato
2 velocity layers: 0–88 p; 89–127 f
Release samples

11 TTB-muA_sus_Vib_progr — **Samples: 102** **RAM: 6 MB** **Level 1**
Sustained, progressive vibrato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

12 TTB-muA_sus_noVib — **Samples: 102** **RAM: 6 MB** **Level 1**
Sustained, without vibrato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

02 DYNAMICS Range: C2–D5

Dynamics

Level 1: Crescendo-diminuendo without vibrato, 2 and 4 sec.
Fortepiano, sforzato

Level 2: Crescendo and diminuendo with and without vibrato, 1.5, 2, 3, 4, and 6 (no vib.) sec.
Crescendo-diminuendo without vibrato, 3 sec.
Sforzatissimo

01 TTB-muA_dyn-me_Vib_1'5s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo with vibrato, 1.5 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

02 TTB-muA_dyn-me_Vib_2s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo with vibrato, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

03 TTB-muA_dyn-me_Vib_3s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo with vibrato, 3 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

04 TTB-muA_dyn-me_Vib_4s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo with vibrato, 4 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

11 TTB-muA_dyn-me_noVib_1'5s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo without vibrato, 1.5 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

12 TTB-muA_dyn-me_noVib_2s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo without vibrato, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

13 TTB-muA_dyn-me_noVib_3s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo without vibrato, 3 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

14 TTB-muA_dyn-me_noVib_4s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo without vibrato, 4 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

15 TTB-muA_dyn-me_noVib_6s **Samples: 68** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo without vibrato, 6 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

21 TTB-muA_pfp_noVib_2s **Samples: 34** **RAM: 2 MB** **Level 1**

Crescendo-diminuendo without vibrato, 2 sec.
2 velocity layers: 0–88 p; 89–127 f

22 TTB-muA_pfp_noVib_3s **Samples: 34** **RAM: 2 MB** **Level 2**

Crescendo-diminuendo without vibrato, 3 sec.
2 velocity layers: 0–88 p; 89–127 f

23 TTB-muA_pfp_noVib_4s **Samples: 34** **RAM: 2 MB** **Level 1**

Crescendo-diminuendo without vibrato, 4 sec.
2 velocity layers: 0–88 p; 89–127 f

31 TTB-muA_fp **Samples: 33** **RAM: 2 MB** **Level 1**

Fortepiano
1 velocity layer
2 Alternations

32 TTB-muA_sfz **Samples: 33** **RAM: 2 MB** **Level 1**

Sforzato
1 velocity layer
2 Alternations

33 TTB-muA_sffz **Samples: 33** **RAM: 2 MB** **Level 2**

Sforzatissimo
1 velocity layer
2 Alternations

03 FLATTER **Range: C2–D5**

Single notes
Level 1: Flutter tonguing

01 TTB-muA_flatter **Samples: 66** **RAM: 4 MB** **Level 1**

Flutter tonguing
1 velocity layer: 0–127 f
Release samples

10 PERF INTERVAL Range: C2–C5

Interval performances
Level 2: Legato
Marcato

01 TTB-muA_perf-legato Samples: 758 RAM: 47 MB Level 2

Legato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 TTB-muA_perf-marcato Samples: 758 RAM: 47 MB Level 2

Marcato
Monophonic
2 velocity layers: 0–88 mp; 89–127 f
Release samples

11 PERF REPETITION Range: C2–D5

Repetition performances
Level 2: Legato
Portato
Staccato
Normal and dynamics

01 TTB-muA_perf-rep_leg Samples: 170 RAM: 10 MB Level 2

Legato
2 velocity layers: 0–88 p; 89–127 f

02 TTB-muA_perf-rep_por Samples: 306 RAM: 19 MB Level 2

Portato
2 velocity layers: 0–88 p; 89–127 f

03 TTB-muA_perf-rep_sta Samples: 306 RAM: 19 MB Level 2

Staccato
2 velocity layers: 0–88 p; 89–127 f

11 TTB-muA_perf-rep_dyn5_leg Samples: 170 RAM: 10 MB Level 2

Legato dynamics, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

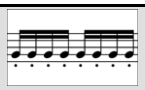
12 TTB-muA_perf-rep_dyn9_por Samples: 306 RAM: 19 MB Level 2

Portato dynamics, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

13 TTB-muA_perf-rep_dyn9_sta **Samples: 306** **RAM: 19 MB** **Level 2**

Staccato dynamics, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

12 FAST REPETITION Range: C2–D5



Fast repetitions
Level 2: Staccato, 9 repetitions, 140–190 BPM
Normal and dynamics

01 TTB-muA_fast-rep_140 (150/160/170/180/190) **Samples: 68** **RAM: 4 MB** **Level 2**

Staccato repetitions, 140–190 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

11 TTB-muA_fast-rep_140_dyn (150/160/170/180/190) **Samples: 34** **RAM: 2 MB** **Level 2**

Staccato repetitions, dynamics, 140–190 BPM
1 velocity layer
AB switch: crescendo/diminuendo

13 UPBEAT REPETITION

Upbeat repetitions
Level 2: 1 upbeat, 90–140 BPM
2 and 3 upbeats, 90–140, 160, and 180 BPM

13 UPBEAT REPETITION/A Single Upbeat Range: C2–D5

01 TTB-muA_UB-a1_90 (100/110/120/130/140) **Samples: 34** **RAM: 2 MB** **Level 2**

1 upbeat, 90–140 BPM
2 velocity layers: 0–88 p; 89–127 f

13 UPBEAT REPETITION/B Double Upbeats Range: C2–D5

01 TTB-muA_UB-a2_90 (100/110/120/130/140/160/180) **Samples: 34** **RAM: 2 MB** **Level 2**

2 upbeats, 90–140, 160, and 180 BPM
2 velocity layers: 0–88 p; 89–127 f

13 UPBEAT REPETITION/C Triple Upbeats Range: C2–D5

01 TTB-muA_UB-a3_90 (100/110/120/130/140/160/180) **Samples: 34** **RAM: 2 MB** **Level 2**

3 upbeats, 90–140, 160, and 180 BPM
2 velocity layers: 0–88 p; 89–127 f

98 RESOURCES

Resources
Level 2: Isolated dynamics repetitions: Legato, portato, staccato
Single layer long notes

98 RESOURCES/01 Perf Rep dyn Range: C2–D5

01 TTB-muA_rep_cre5_leg-1 (2/3/4/5) **Samples: 17** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, crescendo, 1st to 5th note
1 velocity layer

01 TTB-muA_rep_dim5_leg-1 (2/3/4/5) **Samples: 17** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, diminuendo, 1st to 5th note
1 velocity layer

02 TTB-muA_rep_cre9_por-1 (2/3/4/5/6/7/8/9) **Samples: 17** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, crescendo, 1st to 9th note
1 velocity layer

02 TTB-muA_rep_dim9_por-1 (2/3/4/5/6/7/8/9) **Samples: 17** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, diminuendo, 1st to 9th note
1 velocity layer

03 TTB-muA_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 17** **RAM: 1 MB** **Level 2**
Extracted repetitions: Staccato, crescendo, 1st to 9th note
1 velocity layer

03 TTB-muA_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 17** **RAM: 1 MB** **Level 2**
Extracted repetitions: Staccato, diminuendo, 1st to 9th note
1 velocity layer

98 RESOURCES/02 Long Notes - Single Layer Range: C2–D5

01 TTB-muA_sus_p_noVib **Samples: 34** **RAM: 2 MB** **Level 2**
Sustained, piano, without vibrato
1 velocity layer
Release samples

02 TTB-muA_sus_mf_noVib **Samples: 34** **RAM: 2 MB** **Level 2**
Sustained, mezzoforte, without vibrato
1 velocity layer
Release samples

03 TTB-muA_sus_f_noVib **Samples: 34** **RAM: 2 MB** **Level 2**
Sustained, forte, without vibrato
1 velocity layer
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 TTB-muA Articulation Combi — Samples: 749 RAM: 46 MB Level 1

Single note articulations
Staccato, portato short, sustained with progressive and without vibrato, crescendo-diminuendo without vibrato 2 and 4 sec., fortepiano and sforzato, flutter tonguing

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	stac	sus progr. vib.	pfp no vib. 2s.	fp	flutter
V2	port. short	sus no vib.	pfp no vib. 4s.	sfz	flutter

Matrix - LEVEL 2 A - Advanced

01 TTB-muA Perf-Universal — Samples: 1482 RAM: 92 MB Level 2

Interval performances
Legato and marcato
Monophonic

Matrix switches: Vertical: Modwheel, 2 zones

	H1
V1	legato
V2	marcato

02 TTB-muA Short+Long notes — Samples: 747 RAM: 46 MB Level 2

Single notes
Staccato, portato short and medium,
sustained with progressive and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	staccato	port. short	port.med.	sus. progr. vib.
V2	staccato	port. short	port.med.	sus. no vib.

Matrix - LEVEL 2 B - Standard

11 TTB-muA Short notes — Samples: 662 RAM: 41 MB Level 2

Single notes
Staccato, portato short and medium, portato long without vibrato

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	staccato	port.short	port.med.	port.long no vib.

12 TTB-muA Long notes - All — Samples: 153 RAM: 9 MB Level 2

Single notes
Sustained with progressive and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
sustained	progr. vib.	no vib.

13 TTB-muA Dynamics - Small — Samples: 303 RAM: 18 MB Level 2

Dynamics
Medium crescendo and diminuendo without vibrato, 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.med. no vib.	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

14 TTB-muA Dynamics - Large — Samples: 609 RAM: 38 MB Level 2

Dynamics
Medium crescendo and diminuendo with and without vibrato, 2, 3, and 4 sec.
Crescendo-diminuendo without vibrato, 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.med. vib.	2 sec.	3 sec.	4 sec.
dyn.med. no vib.	2 sec.	3 sec.	4 sec.
pfp no vib.	2 sec.	3 sec.	4 sec.
fp/sfz/sffz	fp	sfz	sffz

15 TTB-muA Flatter — Samples: 66 RAM: 4 MB Level 2

Flutter tonguing

Matrix - LEVEL 2 C - Repetitions

31 TTB-muA Perf-Repetitions - Combi

Samples: 782 **RAM: 48 MB** **Level 2**

Repetition performances
Legato, portato, and staccato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	legato	portato	staccato

32 TTB-muA Perf-Repetitions - Speed

Samples: 782 **RAM: 48 MB** **Level 2**

Repetition performances
Legato, portato, and staccato
Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
V1	legato	portato	staccato

33 TTB-muA Fast-Repetitions

Samples: 204 **RAM: 12 MB** **Level 2**

Fast repetitions: Staccato, 140–170, and 190 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	140	150	160	170	190

34 TTB-muA Upbeats a1

Samples: 204 **RAM: 12 MB** **Level 2**

Repetitions: 1 upbeat, 90–140 BPM

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	90	100	110	120	130	140

35 TTB-muA Upbeats a2

Samples: 272 **RAM: 17 MB** **Level 2**

Repetitions: 2 upbeats, 90–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G1

	C1	C#1	D1	D#1	E1	F1	F#1	G1
speed/BPM	90	100	110	120	130	140	160	180

36 TTB-muA Upbeats a3

Samples: 272 **RAM: 17 MB** **Level 2**

Repetitions: 3 upbeats, 90–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G1

	C1	C#1	D1	D#1	E1	F1	F#1	G1
speed/BPM	90	100	110	120	130	140	160	180

37 TTB-muA Upbeats all

Samples: 748 **RAM: 46 MB** **Level 2**

Repetitions: 1–3 upbeats, 90–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1
1 upbeat	90	100	110	120	130	140	140	140
2 upbeats	90	100	110	120	130	140	160	180
3 upbeats	90	100	110	120	130	140	160	180

Matrix - LEVEL 2 E - Keyswitch Vel

71 TTB-muA Legato - cre5 — Samples: 85 RAM: 5 MB Level 2

Legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 TTB-muA Portato - cre9 — Samples: 153 RAM: 9 MB Level 2

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

73 TTB-muA Staccato - cre9 — Samples: 153 RAM: 9 MB Level 2

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 TTB-muA Combi - cre9 — Samples: 306 RAM: 19 MB Level 2

Portato and staccato: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

75 TTB-muA Legato - dim5 — Samples: 85 RAM: 5 MB Level 2

Legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

76 TTB-muA Portato - dim9 — Samples: 153 RAM: 9 MB Level 2

Portato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

77 TTB-muA Staccato - dim9 — Samples: 153 RAM: 9 MB Level 2

Staccato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

78 TTB-muA Combi - dim9 — Samples: 306 RAM: 19 MB Level 2

Portato and staccato: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

TTB-muA VSL Preset Level 1 — Samples: 749 RAM: 46 MB Level 1

L1 TTB-muA Articulation Combi

TTB-muA VSL Preset Level 2 — Samples: 3285 RAM: 205 MB Level 2

01 TTB-muA Perf-Universal
01 TTB-muA Perf-Universal
L1 TTB-muA Articulation Combi
31 TTB-muA Perf-Repetitions - Combi
74 TTB-muA Combi - cre9
Preset keyswitches: C6–E6

56 Tenor trombone - mute B

Patches

01 SHORT + LONG NOTES — Range: C2–D5

Single notes
Level 1: Staccato
Portato short
Sustained with progressive and without vibrato
Level 2: Portato medium

01 TTB-muB_staccato — **Samples: 198** **RAM: 12 MB** **Level 1**

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
4 Alternations

02 TTB-muB_portato_short — **Samples: 198** **RAM: 12 MB** **Level 1**

Portato, short
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
4 Alternations

03 TTB-muB_portato_medium — **Samples: 102** **RAM: 6 MB** **Level 2**

Portato, medium
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

11 TTB-muB_sus_Vib_progr — **Samples: 102** **RAM: 6 MB** **Level 1**

Sustained, progressive vibrato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

12 TTB-muB_sus_noVib — **Samples: 102** **RAM: 6 MB** **Level 1**

Sustained, without vibrato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

02 DYNAMICS Range: C2–D5

Dynamics

Level 1: Crescendo-diminuendo without vibrato, 2 and 4 sec.
Fortepiano, sforzato

Level 2: Crescendo and diminuendo with and without vibrato, 1.5, 2, 3, and 4 sec.
Crescendo-diminuendo without vibrato, 3 sec.
Sforzatissimo

01 TTB-muB_dyn-me_Vib_1'5s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo with vibrato, 1.5 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

02 TTB-muB_dyn-me_Vib_2s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo with vibrato, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

03 TTB-muB_dyn-me_Vib_3s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo with vibrato, 3 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

04 TTB-muB_dyn-me_Vib_4s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo with vibrato, 4 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

11 TTB-muB_dyn-me_noVib_1'5s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo without vibrato, 1.5 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

12 TTB-muB_dyn-me_noVib_2s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo without vibrato, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

13 TTB-muB_dyn-me_noVib_3s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo without vibrato, 3 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

14 TTB-muB_dyn-me_noVib_4s — Samples: 68 — RAM: 4 MB — Level 2

Medium crescendo and diminuendo without vibrato, 4 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

21 TTB-muB_pfp_noVib_2s **Samples: 34** **RAM: 2 MB** **Level 1**

Crescendo-diminuendo without vibrato, 2 sec.
2 velocity layers: 0–88 p-mf; 89–127 mf-f

22 TTB-muB_pfp_noVib_3s **Samples: 34** **RAM: 2 MB** **Level 2**

Crescendo-diminuendo without vibrato, 3 sec.
2 velocity layers: 0–88 p-mf; 89–127 mf-f

23 TTB-muB_pfp_noVib_4s **Samples: 34** **RAM: 2 MB** **Level 1**

Crescendo-diminuendo without vibrato, 4 sec.
2 velocity layers: 0–88 p; 89–127 f

31 TTB-muB_fp **Samples: 33** **RAM: 2 MB** **Level 1**

Fortepiano
1 velocity layer
2 Alternations

32 TTB-muB_sfz **Samples: 33** **RAM: 2 MB** **Level 1**

Sforzato
1 velocity layer
2 Alternations

33 TTB-muB_sffz **Samples: 33** **RAM: 2 MB** **Level 2**

Sforzatissimo
1 velocity layer
2 Alternations

03 FLATTER **Range: C2–D5**

Single notes
Level 1: Flutter tonguing, normal and crescendo

01 TTB-muB_flatter **Samples: 66** **RAM: 4 MB** **Level 1**

Flutter tonguing
1 velocity layer: 0–127 p
Release samples

02 TTB-muB_flatter_cre **Samples: 33** **RAM: 2 MB** **Level 1**

Flutter tonguing, crescendo
1 velocity layer

10 PERF INTERVAL — Range: C2–C5

Interval performances
Level 2: Legato, marcato

01 TTB-muB_perf-legato — Samples: 758 RAM: 47 MB Level 2

Legato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 TTB-muB_perf-marcato — Samples: 758 RAM: 47 MB Level 2

Marcato
Monophonic
2 velocity layers: 0–88 mp; 89–127 f
Release samples

11 PERF REPETITION — Range: C2–D5

Repetition performances
Level 1: Legato
Portato
Staccato
Level 2: Dynamics for all repetitions

01 TTB-muB_perf-rep_leg — Samples: 170 RAM: 10 MB Level 2

Legato
2 velocity layers: 0–88 p; 89–127 f

02 TTB-muB_perf-rep_por — Samples: 306 RAM: 19 MB Level 2

Portato
2 velocity layers: 0–88 p; 89–127 f

03 TTB-muB_perf-rep_sta — Samples: 306 RAM: 19 MB Level 2

Staccato
2 velocity layers: 0–88 p; 89–127 f

11 TTB-muB_perf-rep_dyn5_leg — Samples: 170 RAM: 10 MB Level 2

Legato dynamics, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

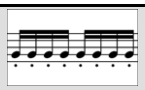
12 TTB-muB_perf-rep_dyn9_por — Samples: 306 RAM: 19 MB Level 2

Portato dynamics, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

13 TTB-muB_perf-rep_dyn9_sta **Samples: 306** **RAM: 19 MB** **Level 2**

Staccato dynamics, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

12 FAST REPETITION Range: C2–D5



Fast repetitions
Level 2: Staccato, 9 repetitions, 140–190 BPM
Normal and dynamics

01 TTB-muB_fast-rep_140 (150/160/170/180/190) **Samples: 56** **RAM: 3 MB** **Level 2**

Staccato repetitions, 140–190 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

11 TTB-muB_fast-rep_140_dyn (150/160/170/180/190) **Samples: 34** **RAM: 2 MB** **Level 2**

Staccato repetitions, dynamics, 140–190 BPM
1 velocity layer
AB switch: crescendo/diminuendo

13 UPBEAT REPETITION

Upbeat repetitions
Level 2: 1–3 upbeats, 90–140, 160, and 180 BPM

13 UPBEAT REPETITION/A Single Upbeat Range: C2–D5

01 TTB-muB_UB-a1_90 (100/110/120/130/140/160/180) **Samples: 34** **RAM: 2 MB** **Level 2**

1 upbeat, 90–140, 160, and 180 BPM
2 velocity layers: 0–88 p; 89–127 f

13 UPBEAT REPETITION/B Double Upbeats Range: C2–D5

01 TTB-muB_UB-a2_90 (100/110/120/130/140/160/180) **Samples: 34** **RAM: 2 MB** **Level 2**

2 upbeats, 90–140, 160, and 180 BPM
2 velocity layers: 0–88 p; 89–127 f

13 UPBEAT REPETITION/C Triple Upbeats Range: C2–D5

01 TTB-muB_UB-a3_90 (100/110/120/130/140/160/180) **Samples: 34** **RAM: 2 MB** **Level 2**

3 upbeats, 90–140, 160, and 180 BPM
2 velocity layers: 0–88 p; 89–127 f

98 RESOURCES

Resources
Level 2: Isolated dynamics repetitions: Legato, portato, staccato
Single layer long notes

98 RESOURCES/01 Perf Rep dyn Range: C2–D5

01 TTB-muB_rep_cre5_leg-1 (2/3/4/5) **Samples: 17** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, crescendo, 1st to 5th note
1 velocity layer

01 TTB-muB_rep_dim5_leg-1 (2/3/4/5) **Samples: 17** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, diminuendo, 1st to 5th note
1 velocity layer

02 TTB-muB_rep_cre9_por-1 (2/3/4/5/6/7/8/9) **Samples: 17** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, crescendo, 1st to 9th note
1 velocity layer

02 TTB-muB_rep_dim9_por-1 (2/3/4/5/6/7/8/9) **Samples: 17** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, diminuendo, 1st to 9th note
1 velocity layer

03 TTB-muB_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 17** **RAM: 1 MB** **Level 2**
Extracted repetitions: Staccato, crescendo, 1st to 9th note
1 velocity layer

03 TTB-muB_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 17** **RAM: 1 MB** **Level 2**
Extracted repetitions: Staccato, diminuendo, 1st to 9th note
1 velocity layer

98 RESOURCES/02 Long Notes - Single Layer Range: C2–D5

01 TTB-muB_sus_p_noVib **Samples: 34** **RAM: 2 MB** **Level 2**
Sustained, piano, without vibrato
1 velocity layer
Release samples

02 TTB-muB_sus_mf_noVib **Samples: 34** **RAM: 2 MB** **Level 2**
Sustained, mezzoforte, without vibrato
1 velocity layer
Release samples

03 TTB-muB_sus_f_noVib **Samples: 34** **RAM: 2 MB** **Level 2**
Sustained, forte, without vibrato
1 velocity layer
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 TTB-muB Articulation Combi — Samples: 782 RAM: 48 MB Level 1

Single note articulations
Staccato, portato short, sustained with progressive and without vibrato, crescendo-diminuendo without vibrato 2 and 4 sec., fortepiano and sforzato, flutter tonguing normal and crescendo

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	stac	sus progr. vib.	pfp no vib. 2s.	fp	flutter
V2	port. short	sus no vib.	pfp no vib. 4s.	sfz	flutter cres.

Matrix - LEVEL 2 A - Advanced

01 TTB-muB Perf-Universal — Samples: 1482 RAM: 92 MB Level 2

Interval performances
Legato and marcato
Monophonic

Matrix switches: Vertical: Modwheel, 2 zones

	H1
V1	legato
V2	marcato

02 TTB-muB Short+Long notes — Samples: 651 RAM: 40 MB Level 2

Single notes
Staccato, portato short and medium,
sustained with progressive and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	staccato	port. short	port.med.	sus. progr. vib.
V2	staccato	port. short	port.med.	sus. no vib.

Matrix - LEVEL 2 B - Standard

11 TTB-muB Short notes — Samples: 498 RAM: 31 MB Level 2

Single notes
Staccato, portato short and medium

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	staccato	port.short	port.med.

12 TTB-muB Long notes - All

Samples: 153 **RAM: 9 MB** **Level 2**

Single notes
Sustained with progressive and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
sustained	progr. vib.	no vib.

13 TTB-muB Dynamics - Small

Samples: 303 **RAM: 18 MB** **Level 2**

Dynamics
Medium crescendo and diminuendo without vibrato, 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.med. no vib.	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

14 TTB-muB Dynamics - Large

Samples: 609 **RAM: 38 MB** **Level 2**

Dynamics
Medium crescendo and diminuendo with and without vibrato, 2, 3, and 4 sec.
Crescendo-diminuendo without vibrato, 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.med. vib.	2 sec.	3 sec.	4 sec.
dyn.med. no vib.	2 sec.	3 sec.	4 sec.
pfp no vib.	2 sec.	3 sec.	4 sec.
fp/sfz/sffz	fp	sfz	sffz

15 TTB-muB Flatter

Samples: 99 **RAM: 6 MB** **Level 2**

Flutter tonguing
Normal, crescendo, and normal/crescendo with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal	crescendo	Cell XF

Matrix - LEVEL 2 C - Repetitions

31 TTB-muB Perf-Repetitions - Combi

Samples: 782 **RAM: 48 MB** **Level 2**

Repetition performances
Legato, portato, and staccato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	legato	portato	staccato

32 TTB-muB Perf-Repetitions - Speed

Samples: 782 **RAM: 48 MB** **Level 2**

Repetition performances
Legato, portato, and staccato
Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
V1	legato	portato	staccato

33 TTB-muB Fast-Repetitions

Samples: 204 **RAM: 12 MB** **Level 2**

Fast repetitions: Staccato, 140–170, and 190 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	140	150	160	170	190

34 TTB-muB Upbeats a1

Samples: 204 **RAM: 12 MB** **Level 2**

Repetitions: 1 upbeat, 90–140 BPM

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	90	100	110	120	130	140

35 TTB-muB Upbeats a2

Samples: 272 **RAM: 17 MB** **Level 2**

Repetitions: 2 upbeats, 90–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G1

	C1	C#1	D1	D#1	E1	F1	F#1	G1
speed/BPM	90	100	110	120	130	140	160	180

36 TTB-muB Upbeats a3

Samples: 272 **RAM: 17 MB** **Level 2**

Repetitions: 3 upbeats, 90–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G1

	C1	C#1	D1	D#1	E1	F1	F#1	G1
speed/BPM	90	100	110	120	130	140	160	180

37 TTB-muB Upbeats all

Samples: 748 **RAM: 46 MB** **Level 2**

Repetitions: 1–3 upbeats, 90–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1
1 upbeat	90	100	110	120	130	140	140	140
2 upbeats	90	100	110	120	130	140	160	180
3 upbeats	90	100	110	120	130	140	160	180

Matrix - LEVEL 2 E - Keyswitch Vel

71 TTB-muB Legato - cre5 — Samples: 85 RAM: 5 MB Level 2

Legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 TTB-muB Portato - cre9 — Samples: 153 RAM: 9 MB Level 2

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

73 TTB-muB Staccato - cre9 — Samples: 153 RAM: 9 MB Level 2

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 TTB-muB Combi - cre9 — Samples: 306 RAM: 19 MB Level 2

Portato and staccato: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

75 TTB-muB Legato - dim5 — Samples: 85 RAM: 5 MB Level 2

Legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

76 TTB-muB Portato - dim9 — Samples: 153 RAM: 9 MB Level 2

Portato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

77 TTB-muB Staccato - dim9 — Samples: 153 RAM: 9 MB Level 2

Staccato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

78 TTB-muB Combi - dim9 — Samples: 306 RAM: 19 MB Level 2

Portato and staccato: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

TTB-muB VSL Preset Level 1 — Samples: 782 RAM: 48 MB Level 1

L1 TTB-muB Articulation Combi

TTB-muB VSL Preset Level 2 — Samples: 3318 RAM: 207 MB Level 2

01 TTB-muB Perf-Universal
01 TTB-muB Perf-Universal
L1 TTB-muB Articulation Combi
31 TTB-muB Perf-Repetitions - Combi
74 TTB-muB Combi - cre9
Preset keyswitches: C6–E6

59 Tuba

Patches

01 SHORT + LONG NOTES — Range: D1–G4

Single notes

Level 1: Staccato
Portato medium
Sustained with vibrato var. 1, and without vibrato

Level 2: Portato medium, soft and hard attack
Portato long with light and strong vibrato; without vibrato, soft and hard attack
Sustained with vibrato, var. 2

01 TU_staccato — **Samples: 370** **RAM: 23 MB** **Level 1**

Staccato
5 velocity layers: 0–28 pp; 29–55 p; 56–88 mp; 89–108 f; 109–127 ff
4 Alternations

02 TU_portato_medium — **Samples: 185** **RAM: 11 MB** **Level 1**

Portato, medium
5 velocity layers: 0–28 pp; 29–55 p; 56–88 mp; 89–108 mf; 109–127 f
2 Alternations

03 TU_portato_medium_soft — **Samples: 175** **RAM: 10 MB** **Level 2**

Portato, medium, soft attack
5 velocity layers: 0–28 pp; 29–55 p; 56–88 mf; 89–108 f; 109–127 ff
2 Alternations

04 TU_portato_medium_hard — **Samples: 369** **RAM: 23 MB** **Level 2**

Portato, medium, hard attack
5 velocity layers: 0–28 p; 29–55 mp; 56–88 mf; 89–108 f; 109–127 ff
4 Alternations

05 TU_portato_long_Vib-light — **Samples: 296** **RAM: 18 MB** **Level 2**

Portato, long, with light vibrato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples
2 Alternations

07 TU_portato_long_Vib-strong — **Samples: 296** **RAM: 18 MB** **Level 2**

Portato, long, with strong vibrato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples
2 Alternations

08 TU_portato_long_noVib-soft **Samples: 259** **RAM: 16 MB** **Level 2**

Portato, long, without vibrato, soft attack
4 velocity layers: 0–55 pp; 56–88 mp; 89–108 mf; 109–127 f
Release samples
2 Alternations

09 TU_portato_long_noVib-hard **Samples: 333** **RAM: 20 MB** **Level 2**

Portato, long, without vibrato, hard attack
5 velocity layers: 0–28 p; 29–55 mp; 56–88 mf; 89–108 f; 109–127 ff
Release samples
2 Alternations

21 TU_sus_Vib-1 **Samples: 296** **RAM: 18 MB** **Level 1**

Sustained, with vibrato, var. 1
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples

22 TU_sus_Vib-2 **Samples: 259** **RAM: 16 MB** **Level 2**

Sustained, with vibrato, var. 2
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples

23 TU_sus_noVib **Samples: 259** **RAM: 16 MB** **Level 1**

Sustained, without vibrato
4 velocity layers: 0–55 pp; 56–88 p; 89–108 mp; 109–127 f
Release samples

02 DYNAMICS Range: D1–G4

Dynamics
Level 1: Crescendo-diminuendo without vibrato, 4 sec.
Fortepiano, sforzato
Level 2: Light crescendo and diminuendo without vibrato, 1, 1.5, 2, 3, and 4 sec.
Medium crescendo and diminuendo with and without vibrato, 2, 3, 4, and 6 sec.
Strong crescendo and diminuendo without vibrato, 2, 3, 4, and 6 sec.
Sforzatissimo

01 TU_dyn-li_noVib_1s **Samples: 222** **RAM: 13 MB** **Level 2**

Light crescendo and diminuendo without vibrato, 1 sec.
3 velocity layers: 0–55 pp-p/mp-pp; 56–108 p-f/f-p; 109–127 f-ff/ff-mf
AB switch: crescendo/diminuendo

02 TU_dyn-li_noVib_1'5s **Samples: 222** **RAM: 13 MB** **Level 2**

Light crescendo and diminuendo without vibrato, 1.5 sec.
3 velocity layers: 0–55 pp-p/mp-pp; 56–108 p-f/f-p; 109–127 f-ff/ff-mf
AB switch: crescendo/diminuendo

03 TU_dyn-li_noVib_2s **Samples: 222** **RAM: 13 MB** **Level 2**

Light crescendo and diminuendo without vibrato, 2 sec.
3 velocity layers: 0–55 pp-p/mp-pp; 56–108 p-f/f-p; 109–127 f-ff/ff-mf
AB switch: crescendo/diminuendo

04 TU_dyn-li_noVib_3s **Samples: 222** **RAM: 13 MB** **Level 2**

Light crescendo and diminuendo without vibrato, 3 sec.
3 velocity layers: 0–55 pp-p/p-pp; 56–108 p-f/mf-p; 109–127 f-ff/ff-f
AB switch: crescendo/diminuendo

05 TU_dyn-li_noVib_4s **Samples: 222** **RAM: 13 MB** **Level 2**

Light crescendo and diminuendo without vibrato, 4 sec.
3 velocity layers: 0–55 pp-p/p-pp; 56–108 p-f/mf-p; 109–127 f-ff/ff-f
AB switch: crescendo/diminuendo

11 TU_dyn-me_Vib_2s **Samples: 148** **RAM: 9 MB** **Level 2**

Medium crescendo and diminuendo with vibrato, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

12 TU_dyn-me_Vib_3s **Samples: 148** **RAM: 9 MB** **Level 2**

Medium crescendo and diminuendo with vibrato, 3 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

13 TU_dyn-me_Vib_4s **Samples: 148** **RAM: 9 MB** **Level 2**

Medium crescendo and diminuendo with vibrato, 4 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

14 TU_dyn-me_Vib_6s **Samples: 148** **RAM: 9 MB** **Level 2**

Medium crescendo and diminuendo with vibrato, 6 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

21 TU_dyn-me_noVib_2s **Samples: 148** **RAM: 9 MB** **Level 2**

Medium crescendo and diminuendo without vibrato, 2 sec.
2 velocity layers: 0–88 pp-mp/mp-pp; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

22 TU_dyn-me_noVib_3s **Samples: 148** **RAM: 9 MB** **Level 2**

Medium crescendo and diminuendo without vibrato, 3 sec.
2 velocity layers: 0–88 pp-mp/p-pp; 89–127 mf-ff/ff-f
AB switch: crescendo/diminuendo

23 TU_dyn-me_noVib_4s **Samples: 148** **RAM: 9 MB** **Level 2**

Medium crescendo and diminuendo without vibrato, 4 sec.
2 velocity layers: 0–88 pp-mp/mp-pp; 89–127 mf-ff/f-p
AB switch: crescendo/diminuendo

24 TU_dyn-me_noVib_6s **Samples: 148** **RAM: 9 MB** **Level 2**

Medium crescendo and diminuendo without vibrato, 6 sec.
2 velocity layers: 0–88 pp-mp/mp-pp; 89–127 mf-ff/f-p
AB switch: crescendo/diminuendo

31 TU_dyn-str_noVib_2s **Samples: 74** **RAM: 4 MB** **Level 2**

Strong crescendo and diminuendo without vibrato, 2 sec.
1 velocity layer: 0–127 p-ff
AB switch: crescendo/diminuendo

32 TU_dyn-str_noVib_3s **Samples: 74** **RAM: 4 MB** **Level 2**

Strong crescendo and diminuendo without vibrato, 3 sec.
1 velocity layer: 0–127 p-ff
AB switch: crescendo/diminuendo

33 TU_dyn-str_noVib_4s **Samples: 74** **RAM: 4 MB** **Level 2**

Strong crescendo and diminuendo without vibrato, 4 sec.
1 velocity layer: 0–127 p-ff
AB switch: crescendo/diminuendo

34 TU_dyn-str_noVib_6s **Samples: 73** **RAM: 4 MB** **Level 2**

Strong crescendo and diminuendo without vibrato, 6 sec.
1 velocity layer: 0–127 p-ff
AB switch: crescendo/diminuendo

41 TU_pfp_noVib_4s **Samples: 37** **RAM: 2 MB** **Level 1**

Crescendo-diminuendo without vibrato, 4 sec.
1 velocity layer

51 TU_fp **Samples: 38** **RAM: 2 MB** **Level 1**

Fortepiano
1 velocity layer
2 Alternations

52 TU_sfz **Samples: 37** **RAM: 2 MB** **Level 1**

Sforzato
1 velocity layer
2 Alternations

53 TU_sffz **Samples: 37** **RAM: 2 MB** **Level 2**

Sforzatissimo
1 velocity layer
2 Alternations

03 FLATTER + TRILLS

Flutter tonguing and trills
Level 1: Flutter tonguing normal and crescendo
Trills, minor and major 2nd
Level 2: Trills dynamics

01 TU_flatter **Range: D2–F4** **Samples: 80** **RAM: 5 MB** **Level 1**

Flutter tonguing
1 velocity layer: 0–127 ff
Release samples

02 TU_flatter_cre | **Range: G#1–G4** | **Samples: 32** | **RAM: 2 MB** | **Level 1**

Flutter tonguing, crescendo
1 velocity layer

11 TU_trill_1 | **Range: D1–G4** | **Samples: 213** | **RAM: 13 MB** | **Level 1**

Trills, minor 2nd
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

12 TU_trill_2 | **Range: D1–D4** | **Samples: 178** | **RAM: 11 MB** | **Level 1**

Trills, major 2nd
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

13 TU_trill_1_cre | **Range: D1–G4** | **Samples: 36** | **RAM: 2 MB** | **Level 2**

Trills, crescendo, minor 2nd
1 velocity layer

14 TU_trill_2_cre | **Range: D1–A2** | **Samples: 15** | **RAM: 1 MB** | **Level 2**

Trills, crescendo, major 2nd
1 velocity layer

04 MUTE BASIC

Range: D1–G4

Muted notes
Level 2: Staccato
Portato medium and long
Sustained
Crescendo and diminuendo, 2, 3, and 4 sec.
Sforzato
Flutter tonguing, normal and crescendo

01 TU_mu_staccato | **Samples: 222** | **RAM: 13 MB** | **Level 2**

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
4 Alternations

02 TU_mu_portato_medium | **Samples: 222** | **RAM: 13 MB** | **Level 2**

Portato, medium
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
4 Alternations

03 TU_mu_portato_long | **Samples: 222** | **RAM: 13 MB** | **Level 2**

Portato, long, with soft attack
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples
2 Alternations

04 TU_mu_sus **Samples: 222** **RAM: 13 MB** **Level 2**

Sustained
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

11 TU_mu_dyn_2s **Samples: 74** **RAM: 4 MB** **Level 2**

Strong crescendo and diminuendo, 2 sec.
1 velocity layer
AB switch: crescendo/diminuendo

12 TU_mu_dyn_3s **Samples: 74** **RAM: 4 MB** **Level 2**

Strong crescendo and diminuendo, 3 sec.
1 velocity layer
AB switch: crescendo/diminuendo

13 TU_mu_dyn_4s **Samples: 74** **RAM: 4 MB** **Level 2**

Strong crescendo and diminuendo, 4 sec.
1 velocity layer
AB switch: crescendo/diminuendo

14 TU_mu_sfz **Samples: 37** **RAM: 2 MB** **Level 2**

Sforzato
1 velocity layer
2 Alternations

21 TU_mu_flatter **Range: G1–G4** **Samples: 64** **RAM: 4 MB** **Level 2**

Flutter tonguing
1 velocity layer: 0–127 f
Release samples

22 TU_mu_flatter-cre **Range: D2–G4** **Samples: 25** **RAM: 1 MB** **Level 2**

Flutter tonguing, crescendo
1 velocity layer

10 PERF INTERVAL **Range: D1–F#4**

Interval performances
Level 1: Legato, without vibrato
Level 2: Legato, without and with vibrato, sustain crossfading

01 TU_perf-legato_noVib **Samples: 892** **RAM: 55 MB** **Level 1**

Legato, no vibrato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 TU_perf-legato_noVib_sus **Samples: 966** **RAM: 60 MB** **Level 2**

Legato, no vibrato
Sustain crossfading
Monophonic
4 velocity layers: Legato: 0–88 p; 89–127 f
Sustained: 0–55 pp; 56–88 p; 89–108 mp; 109–127 f
Release samples

03 TU_perf-legato_Vib_sus **Samples: 892** **RAM: 55 MB** **Level 2**

Legato, vibrato
Sustain crossfading
Monophonic
4 velocity layers: Legato: 0–88 p; 89–127 f
Sustained: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples

11 PERF INTERVAL FAST **Range: A1–G4**

Fast interval performances
Level 1: Legato

01 TU_perf-legato_fa **Samples: 892** **RAM: 55 MB** **Level 1**

Legato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

12 PERF REPETITION **Range: F1–G4**

Repetition performances
Level 1: Legato
Portato slow
Staccato slow
Level 2: Portato fast
Staccato fast
Legato dynamics
Portato and staccato crescendo

01 TU_perf-rep_leg **Range: D1–G4** **Samples: 228** **RAM: 14 MB** **Level 1**

Legato
2 velocity layers: 0–88 p; 89–127 f

02 TU_perf-rep_por-sl **Samples: 306** **RAM: 19 MB** **Level 1**

Portato, slow
2 velocity layers: 0–88 p; 89–127 f

03 TU_perf-rep_por-fa **Samples: 306** **RAM: 19 MB** **Level 2**

Portato, fast
2 velocity layers: 0–88 p; 89–127 f

04 TU_perf-rep_sta-sl **Samples: 306** **RAM: 19 MB** **Level 1**

Staccato, slow
2 velocity layers: 0–88 p; 89–127 f

05 TU_perf-rep_sta-fa **Samples: 306** **RAM: 19 MB** **Level 2**

Staccato, fast
2 velocity layers: 0–88 p; 89–127 f

21 TU_perf-rep_dyn6_leg **Samples: 192** **RAM: 12 MB** **Level 2**

Legato dynamics, 6 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

22 TU_perf-rep_cre9_por-sl **Samples: 153** **RAM: 9 MB** **Level 2**

Portato crescendo, slow, 9 repetitions
1 velocity layer

23 TU_perf-rep_cre9_por-fa **Samples: 153** **RAM: 9 MB** **Level 2**

Portato crescendo, fast, 9 repetitions
1 velocity layer

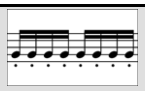
24 TU_perf-rep_cre9_sta-sl **Samples: 153** **RAM: 9 MB** **Level 2**

Staccato crescendo, slow, 9 repetitions
1 velocity layer

25 TU_perf-rep_cre9_sta-fa **Samples: 153** **RAM: 9 MB** **Level 2**

Staccato crescendo, fast, 9 repetitions
1 velocity layer

13 FAST REPETITION **Range: A#1–G4**



Fast repetitions
Level 2: Staccato, 9 repetitions, 140 to 190 BPM
Normal and crescendo

01 TU_fast-rep_140 (150/160/170/180/190) **Samples: 120** **RAM: 7 MB** **Level 2**

Staccato repetitions, 140–190 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

11 TU_fast-rep_140_cre (150/160/170/180/190) **Samples: 30** **RAM: 1 MB** **Level 2**

Staccato repetitions, crescendo, 140–190 BPM
1 velocity layer

14 UPBEAT REPETITION

Repetitions
Level 2: 1–2 upbeats, 80–140 BPM
3 upbeats, 80–140, and 160 BPM

14 UPBEAT REPETITION/A Single Upbeat Range: G1–G4

01 TU_UB-a1_80 (90/100/110/120/130/140) **Samples: 64** **RAM: 4 MB** **Level 2**

1 upbeat, 80–140 BPM
2 velocity layers: 0–88 p; 89–127 f

14 UPBEAT REPETITION/B Double Upbeats Range: G1–G4

01 TU_UB-a2_80 (90/100/110/120/130/140) **Samples: 64** **RAM: 4 MB** **Level 2**

2 upbeats, 80–140 BPM
2 velocity layers: 0–88 p; 89–127 f

14 UPBEAT REPETITION/C Triple Upbeats Range: G1–G4

01 TU_UB-a3_80 (90/100/110/120/130/140/160) **Samples: 64** **RAM: 4 MB** **Level 2**

3 upbeats, 80–140, and 160 BPM
2 velocity layers: 0–88 p; 89–127 f

15 GRACE NOTES Range: F1–G4

Phrases
Level 2: Grace notes
Minor and major 2nd
Up and down
Mapped to target note

01 TU_grace-1 **Samples: 200** **RAM: 12 MB** **Level 2**

Grace notes, minor 2nd
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: up/down

02 TU_grace-2 **Samples: 198** **RAM: 12 MB** **Level 2**

Grace notes, major 2nd
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: up/down

98 RESOURCES

Resources
Level 1: Slow legato Interval Performance
Level 2: Isolated dynamics repetitions: Legato, portato, staccato
Single layer long notes

98 RESOURCES/01 Perf Rep dyn Range: F1–G4

01 TU_rep_cre6_leg-1 (2/3/4/5/6) **Samples: 16** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, crescendo, 1st to 6th note
1 velocity layer

01 TU_rep_dim6_leg-1 (2/3/4/5/6) **Samples: 16** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, diminuendo, 1st to 6th note
1 velocity layer

02 TU_rep_cre9_por-1 (2/3/4/5/6/7/8/9) **Samples: 17** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, crescendo, 1st to 9th note
1 velocity layer

03 TU_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 17** **RAM: 1 MB** **Level 2**
Extracted repetitions: Staccato, crescendo, 1st to 9th note
1 velocity layer

98 RESOURCES/02 Long Notes - Single Layer Range: D1–G4

01 TU_sus_pp_noVib **Samples: 74** **RAM: 4 MB** **Level 2**
Sustained, pianissimo, without vibrato
1 velocity layer
Release samples

02 TU_sus_p_noVib **Samples: 74** **RAM: 4 MB** **Level 2**
Sustained, piano, without vibrato
1 velocity layer
Release samples

03 TU_sus_mf_noVib **Samples: 74** **RAM: 4 MB** **Level 2**
Sustained, mezzoforte, without vibrato
1 velocity layer
Release samples

04 TU_sus_f_noVib **Samples: 74** **RAM: 4 MB** **Level 2**
Sustained, forte, without vibrato
1 velocity layer
Release samples

98 RESOURCES/03 Perf Speed variation

01 TU_perf-legato_slow **Range: D1–F#4** **Samples: 892** **RAM: 55 MB** **Level 1**

Legato, slow
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 TU Articulation Combi

Samples: 1614 RAM: 100 MB **Level 1**

Single note articulations
Staccato, portato medium, sustained with (var.1) and without vibrato, crescendo-diminuendo without vibrato 4 sec., fortepiano and sforzato, flutter tonguing normal and crescendo, trills half and whole tone

Matrix switches: Horizontal: Keyswitches, C6–F6 Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6	E6	F6
V1	stac	sus vib. v.1	pfp no vib. 4s.	fp	flutter	trill half
V2	port. medium	sus no vib.	pfp no vib. 4s.	sfz	flutter cres.	trill whole

L1 TU Perf-Legato Speed

Samples: 1124 RAM: 70 MB **Level 1**

Interval performances
Legato slow, normal without vibrato, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal no vib.	fast

L1 TU Perf-Repetitions Combi

Samples: 840 RAM: 52 MB **Level 1**

Repetition performances
Legato
Portato slow
Staccato slow

Matrix switches: Vertical: Modwheel, 3 zones

	repetitions
V1	legato
V2	portato slow
V3	staccato slow

Matrix - LEVEL 2 A - Advanced

01 TU Perf-Universal

Samples: 1124 RAM: 70 MB **Level 2**

Interval performances
Legato slow, normal without vibrato, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal no vib.	fast

02 TU Short+Long notes — Samples: 1591 RAM: 99 MB — Level 2

Single notes
Staccato, portato medium, portato long with light, strong, and without vibrato
Sustained with (2 variations) and without vibrato

Matrix switches: Horizontal: Keyswitches, C6–D#6 Vertical: Modwheel, 3 zones

	C6	C#6	D6	D#6
V1	staccato	port.med.	port.long light vib.	sus. vib. v.1
V2	staccato	port.med.	port.long strong vib.	sus. vib. v.2
V2	%	%	port.long no vib.	sus. no vib.

Matrix - LEVEL 2 B - Standard

11 TU Perf-Legato Speed — Samples: 1124 RAM: 70 MB — Level 2

Interval performances
Legato slow, normal without vibrato, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal no vib.	fast

12 TU Short notes — Samples: 1100 RAM: 68 MB — Level 2

Single notes
Staccato, portato medium with normal, soft, and hard attack

Matrix switches: Horizontal: Keyswitches, C6–D#6

	C6	C#6	D6	D#6
V1	staccato	port.med. norm.	port.med. soft	port.med. hard

13 TU Long notes - All — Samples: 592 RAM: 37 MB — Level 2

Single notes
Sustained with (2 variations) and without vibrato

Matrix switches: Horizontal: Keyswitches, C6–D6

	C6	C#6	D6
sustained	vibrato v.1	vibrato v.2	no vibrato

14 TU Dynamics - Small — Samples: 556 RAM: 34 MB — Level 2

Dynamics
Medium crescendo and diminuendo without vibrato, 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C6–D6 Vertical: Modwheel, 4 zones

	C6	C#6	D6
dyn.med. no vib.	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

15 TU Dynamics - Large

Samples: 1554 RAM: 97 MB **Level 2**

Dynamics
Medium crescendo and diminuendo with and without vibrato, 2, 3, 4, and 6 sec.
Strong crescendo and diminuendo without vibrato, 2, 3, 4, and 6 sec.
Crescendo-diminuendo without vibrato 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C6–D#6 Vertical: Modwheel, 5 zones

	C6	C#6	D6	D#6
dyn.med. vib.	2 sec.	3 sec.	4 sec.	6 sec.
dyn.med. no vib.	2 sec.	3 sec.	4 sec.	6 sec.
dyn.str. no vib.	2 sec.	3 sec.	4 sec.	6 sec.
pfp no vib.	4 sec.	%	%	%
fp/sfz/sffz	fp	sfz	sffz	sffz

16 TU Flatter

Samples: 112 RAM: 7 MB **Level 2**

Flutter tonguing
Normal, crescendo, and normal/crescendo with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C6–D6

	C6	C#6	D6
flutter	normal	crescendo	Cell XF

17 TU Trills - All

Samples: 442 RAM: 27 MB **Level 2**

Trills, minor and major 2nd, normal and crescendo

Matrix switches: Horizontal: Keyswitches, C6–C#6 Vertical: Modwheel, 2 zones

	C6	C#6
min 2nd	normal	crescendo
maj. 2nd	normal	crescendo

18 TU Mute Short+Long

Samples: 866 RAM: 54 MB **Level 2**

Single notes, muted
Staccato, portato medium and long, sustained, flutter tonguing normal and crescendo

Matrix switches: Horizontal: Keyswitches, C6–F6

	C6	C#6	D6	D#6	E6	F6
V1	staccato	port. medium	port. long	sustained	flutter norm.	flutter cres.

19 TU Mute Dynamics

Samples: 259 RAM: 16 MB **Level 2**

Dynamics, muted
Crescendo and diminuendo, 2, 3, and 4 sec.
Sforzato

Matrix switches: Horizontal: Keyswitches, C6–D6 Vertical: Modwheel, 2 zones

	C6	C#6	D6	
cres/dim	2 sec.	3 sec.	4 sec.	
sfz	%	%	%	%

Matrix - LEVEL 2 C - Repetitions

31 TU Perf-Repetitions - Combi

Samples: 1452 RAM: 90 MB **Level 2**

Repetition performances
Legato, portato slow and fast, and staccato slow and fast

Matrix switches: Horizontal: Keyswitches, C6–E6

	C6	C#6	D6	E6	
V1	legato	portato slow	portato fast	staccato slow	staccato fast

32 TU Perf-Repetitions - Speed

Samples: 1146 RAM: 71 MB **Level 2**

Repetition performances
Legato, portato slow and fast, and staccato fast
Speed controller

Matrix switches: Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato	portato slow	portato fast	staccato fast

33 TU Fast-Repetitions

Samples: 420 RAM: 26 MB **Level 2**

Fast repetitions: Staccato, 140–190 BPM

Matrix switches: Horizontal: Keyswitches, C6–F6

	C6	C#6	D6	D#6	E6	F6
speed/BPM	140	150	160	170	180	190

34 TU Upbeats a1

Samples: 448 RAM: 28 MB **Level 2**

Repetitions: 1 upbeat, 80–140 BPM

Matrix switches: Horizontal: Keyswitches, C6–F#6

	C6	C#6	D6	D#6	E6	F6	F#6
speed/BPM	80	90	100	110	120	130	140

35 TU Upbeats a2

Samples: 448 RAM: 28 MB **Level 2**

Repetitions: 2 upbeats, 80–140 BPM

Matrix switches: Horizontal: Keyswitches, C6–F#6

	C6	C#6	D6	D#6	E6	F6	F#6
speed/BPM	80	90	100	110	120	130	140

36 TU Upbeats a3

Samples: 512 RAM: 32 MB **Level 2**

Repetitions: 3 upbeats, 80–140, and 160 BPM

Matrix switches: Horizontal: Keyswitches, C6–G6

	C6	C#6	D6	D#6	E6	F6	F#6	G6
speed/BPM	80	90	100	110	120	130	140	160

37 TU Upbeats all

Samples: 1408 RAM: 88 MB **Level 2**

Repetitions: 1–3 upbeats, 80–140, and 160 BPM
Please note that due to a copying error the VI Matrix description shows different speeds.

Matrix switches: Horizontal: Keyswitches, C6–G6 Vertical: Modwheel, 3 zones

	C6	C#6	D6	D#6	E6	F6	F#6	G6
1 upbeat	80	90	100	110	120	130	140	140
2 upbeats	80	90	100	110	120	130	140	140
3 upbeats	80	90	100	110	120	130	140	160

Matrix - LEVEL 2 D - Scale+Phrase

41 TU Grace notes - All

Samples: 324 **RAM: 20 MB** **Level 2**

Grace notes, minor and major 2nd
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C6–C#6

	C6	C#6
interval	min. 2nd	maj. 2nd

Matrix - LEVEL 2 E - Keyswitch Vel

71 TU Legato - cre6

Samples: 96 **RAM: 6 MB** **Level 2**

Legato notes: Crescendo, keyswitch velocity
Keyswitches control 6 dynamic steps

Matrix switches: Horizontal: Keyswitches, C6–F6

	C6	C#6	D6	D#6	E6	F6
velocity	1st	2nd	3rd	4th	5th	6th

72 TU Portato - cre9

Samples: 153 **RAM: 9 MB** **Level 2**

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

73 TU Staccato - cre9

Samples: 153 **RAM: 9 MB** **Level 2**

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C6–G#6

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 TU Combi - cre9

Samples: 306 **RAM: 19 MB** **Level 2**

Portato and staccato: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C6–G#6 Vertical: Modwheel, 2 zones

	C6	C#6	D6	D#6	E6	F6	F#6	G6	G#6
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

75 TU Legato - dim6

Samples: 96 **RAM: 6 MB** **Level 2**

Legato notes: Diminuendo, keyswitch velocity
Keyswitches control 6 dynamic steps

Matrix switches: Horizontal: Keyswitches, C6–F6

	C6	C#6	D6	D#6	E6	F6
velocity	1st	2nd	3rd	4th	5th	6th

Presets

TU VSL Preset Level 1 **Samples: 3430 RAM: 214 MB** **Level 1**

L1 TU Perf-Legato Speed
L1 TU Articulation Combi
L1 TU Perf-Repetitions Combi
Preset keyswitches: C7–D7

TU VSL Preset Level 2 **Samples: 4348 RAM: 271 MB** **Level 2**

01 TU Perf-Universal
01 TU Perf-Universal
L1 TU Articulation Combi
31 TU Perf-Repetitions - Combi
74 TU Combi - cre9
Preset keyswitches: C7–E7

63 Trumpets - a3

Patches

01 SHORT + LONG NOTES — Range: F#3–C#6

Single notes
Level 1: Staccato
Portato short
Sustained with and without vibrato
Level 2: Portato medium and long
Sustained marcato, tuning in, rips, and falls

01 Tr-3_staccato — **Samples: 212** **RAM: 13 MB** **Level 1**
Staccato
4 velocity layers: 0–55 p; 56–88 mf; 89–108 f; 109–127 ff
4 Alternations

02 Tr-3_portato_short — **Samples: 211** **RAM: 13 MB** **Level 1**
Portato, short
4 velocity layers: 0–55 p; 56–88 mf; 89–108 f; 109–127 ff
4 Alternations

03 Tr-3_portato_medium — **Samples: 218** **RAM: 13 MB** **Level 2**
Portato, medium
4 velocity layers: 0–55 p; 56–88 mf; 89–108 f; 109–127 ff
4 Alternations

04 Tr-3_portato_long — **Samples: 165** **RAM: 10 MB** **Level 2**
Portato, long
3 velocity layers: 0–66 p; 67–108 mf; 109–127 f
Release samples
2 Alternations

11 Tr-3_sus_Vib — **Samples: 126** **RAM: 7 MB** **Level 1**
Sustained, with vibrato
3 velocity layers: 0–55 mp; 56–108 f; 109–127 ff
Release samples

12 Tr-3_sus_noVib — **Samples: 168** **RAM: 10 MB** **Level 1**
Sustained, without vibrato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

13 Tr-3_sus_marcato — **Samples: 112** **RAM: 7 MB** **Level 2**
Sustained, marcato
2 velocity layers: 0–108 mf; 109–127 ff
Release samples

14 Tr-3_sus_tune **Samples: 126** **RAM: 7 MB** **Level 2**

Sustained, tuning in after attack
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

15 Tr-3_sus_rip **Samples: 84** **RAM: 5 MB** **Level 2**

Sustained, with rips (sliding into the note)
2 velocity layers: 0–88 mf; 89–127 f
Release samples

16 Tr-3_falls **Samples: 56** **RAM: 3 MB** **Level 2**

Sustained, falls (sliding down at the end of the note)
2 velocity layers: 0–88 p; 89–127 f
AB switch: fall short/long

17 Tr-3_falls_fA **Samples: 56** **RAM: 3 MB** **Level 2**

Sustained, falls shortly after initial note
2 velocity layers
AB switch: fall short/long

02 DYNAMICS Range: F#3–C#6

Dynamics
Level 1: Crescendo-diminuendo, 2 and 4 sec.
Fortepiano, sforzato
Level 2: Medium crescendo and diminuendo, 1.5, 2, 3, 4, and 6 sec.
Strong crescendo and diminuendo, 2, 3, 4, and 6 sec.
Crescendo-diminuendo, 3 and 6 sec.
Sforzatissimo

01 Tr-3_dyn-me_1'5s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, 1.5 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

02 Tr-3_dyn-me_2s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

03 Tr-3_dyn-me_3s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, 3 sec.
2 velocity layers: 0–88 pp-mf/mf-p; 89–127 mf-f/ff-mf
AB switch: crescendo/diminuendo

04 Tr-3_dyn-me_4s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, 4 sec.
2 velocity layers: 0–88 pp-mf/mf-p; 89–127 mf-f/ff-mf
AB switch: crescendo/diminuendo

05 Tr-3_dyn-me_6s **Samples: 106** **RAM: 6 MB** **Level 2**

Medium crescendo and diminuendo, 6 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

11 Tr-3_dyn-str_2s **Samples: 56** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, 2 sec.
1 velocity layer: 0–127 p-f/f-p
AB switch: crescendo/diminuendo

12 Tr-3_dyn-str_3s **Samples: 56** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, 3 sec.
1 velocity layer: 0–127 p-f/f-p
AB switch: crescendo/diminuendo

13 Tr-3_dyn-str_4s **Samples: 56** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, 4 sec.
1 velocity layer: 0–127 pp-ff/ff-pp
AB switch: crescendo/diminuendo

14 Tr-3_dyn-str_6s **Samples: 56** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, 6 sec.
1 velocity layer: 0–127 pp-ff/ff-pp
AB switch: crescendo/diminuendo

21 Tr-3_pfp_2s **Samples: 56** **RAM: 3 MB** **Level 1**

Crescendo-diminuendo, 2 sec.
2 velocity layers: 0–88 p; 89–127 mf

22 Tr-3_pfp_3s **Samples: 56** **RAM: 3 MB** **Level 2**

Crescendo-diminuendo, 3 sec.
2 velocity layers: 0–88 p; 89–127 mf

23 Tr-3_pfp_4s **Samples: 14** **RAM: 1 MB** **Level 1**

Crescendo-diminuendo, 4 sec.
1 velocity layer: 0–127 mp-mf

24 Tr-3_pfp_6s **Samples: 14** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 6 sec.
1 velocity layer: 0–127 mp-mf

31 Tr-3_fp **Samples: 28** **RAM: 1 MB** **Level 1**

Fortepiano
1 velocity layer
2 Alternations

32 Tr-3_sfz **Samples: 28** **RAM: 1 MB** **Level 1**

Sforzato
1 velocity layer
2 Alternations

33 Tr-3_sffz **Samples: 28** **RAM: 1 MB** **Level 2**

Sforzatissimo
1 velocity layer
2 Alternations

03 FLATTER + TRILLS

Flutter tonguing and trills
Level 1: Flutter tonguing normal and crescendo
Trills normal, minor and major 2nd
Level 2: Trills dynamics, minor and major 2nd

01 Tr-3_flatter **Range: F#3–C#6** **Samples: 56** **RAM: 3 MB** **Level 1**

Flutter tonguing
1 velocity layer: 0–127 f
Release samples

02 Tr-3_flatter_cre **Range: F#3–C#6** **Samples: 28** **RAM: 1 MB** **Level 1**

Flutter tonguing, crescendo
1 velocity layer

11 Tr-3_trill_1 **Range: F#3–C6** **Samples: 108** **RAM: 6 MB** **Level 1**

Trills, minor 2nd
2 velocity layers: 0–88 p; 89–127 f
Release samples

12 Tr-3_trill_2 **Range: F#3–B5** **Samples: 52** **RAM: 3 MB** **Level 1**

Trills, major 2nd
2 velocity layers: 0–88 p; 89–127 f
Release samples

13 Tr-3_trill_1_dyn **Range: F#3–C6** **Samples: 54** **RAM: 3 MB** **Level 2**

Trills, crescendo and diminuendo, minor 2nd
1 velocity layer
AB switch: crescendo/diminuendo

14 Tr-3_trill_2_dyn **Range: F#3–B5** **Samples: 26** **RAM: 1 MB** **Level 2**

Trills, crescendo and diminuendo, major 2nd
1 velocity layer
AB switch: crescendo/diminuendo

10 PERF INTERVAL Range: F#3–C#6

Interval performances
Level 1: Legato, without vibrato
Level 2: Legato, with vibrato
Legato, tuning attack
Marcato

01 Tr-3_perf-legato_noVib — Samples: 616 RAM: 38 MB Level 1

Legato, without vibrato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 Tr-3_perf-legato_noVib_sus — Samples: 616 RAM: 38 MB Level 2

Legato, without vibrato
Sustain crossfading
Monophonic
3 velocity layers: Legato: 0–88 p; 89–127 f
Sustained: 0–88 p; 89–108 mf; 109–127 f
Release samples

03 Tr-3_perf-legato_Vib — Samples: 602 RAM: 37 MB Level 2

Legato, with vibrato
Monophonic
3 velocity layers: Legato: 0–88 p; 89–127 f
Sustained: 0–88 mp; 89–108 f; 109–127 ff
Release samples

04 Tr-3_perf-legato_tune — Samples: 602 RAM: 37 MB Level 2

Legato, with vibrato
Tuning in after attack
Monophonic
3 velocity layers: Legato: 0–88 p; 89–127 f
Sustained: 0–55 p; 56–88 mf; 89–127 f
Release samples

05 Tr-3_perf-marcato — Samples: 669 RAM: 41 MB Level 2

Marcato
Monophonic
2 velocity layers: 0–88 mf; 89–127 ff
Release samples

11 PERF INTERVAL FAST — Range: F#3–C#6

Fast interval performances
Level 1: Legato
Level 2: Marcato

01 Tr-3_perf-legato_fa — Samples: 728 RAM: 45 MB Level 1

Legato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 mf
Release samples

02 Tr-3_perf-marcato_fa — Samples: 786 RAM: 49 MB Level 2

Marcato, fast
Monophonic
2 velocity layers: 0–88 mf; 89–127 ff
Release samples

12 PERF TRILL — Range: F#3–C#6

Multi interval performances
Level 2: Trills, legato, minor to major 2nd

01 Tr-3_perf-trill — Samples: 1136 RAM: 71 MB Level 2

Performance trills, legato, minor to major 2nd
Monophonic
2 velocity layers: 0–88 p; 89–127 mf
Release samples

13 PERF REPETITION — Range: F#3–C#6

Repetition performances
Level 1: Legato slow
Portato fast
Staccato fast
Level 2: Legato fast
Portato slow
Staccato slow
Dynamics for all repetitions

01 Tr-3_perf-rep_leg-sl — Samples: 140 RAM: 8 MB Level 1

Legato, slow
2 velocity layers: 0–88 p; 89–127 f

02 Tr-3_perf-rep_leg-fa — Samples: 140 RAM: 8 MB Level 2

Legato, fast
2 velocity layers: 0–88 mp; 89–127 f

03 Tr-3_perf-rep_por-sl **Samples: 252** **RAM: 15 MB** **Level 2**

Portato, slow
2 velocity layers: 0–88 p; 89–127 f

04 Tr-3_perf-rep_por-fa **Samples: 252** **RAM: 15 MB** **Level 1**

Portato, fast
2 velocity layers: 0–88 mp; 89–127 f

05 Tr-3_perf-rep_sta-sl **Samples: 208** **RAM: 13 MB** **Level 2**

Staccato, slow
2 velocity layers: 0–88 mp; 89–127 f

06 Tr-3_perf-rep_sta-fa **Samples: 252** **RAM: 15 MB** **Level 1**

Staccato, fast
2 velocity layers: 0–88 mp; 89–127 f

21 Tr-3_perf-rep_dyn5_leg-sl **Samples: 140** **RAM: 8 MB** **Level 2**

Legato dynamics, slow, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

22 Tr-3_perf-rep_dyn5_leg-fa **Samples: 140** **RAM: 8 MB** **Level 2**

Legato dynamics, fast, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

23 Tr-3_perf-rep_dyn9_por-sl **Samples: 252** **RAM: 15 MB** **Level 2**

Portato dynamics, slow, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

24 Tr-3_perf-rep_dyn9_por-fa **Samples: 252** **RAM: 15 MB** **Level 2**

Portato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

25 Tr-3_perf-rep_dyn9_sta-sl **Samples: 234** **RAM: 14 MB** **Level 2**

Staccato dynamics, slow, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

26 Tr-3_perf-rep_dyn9_sta-fa **Samples: 252** **RAM: 15 MB** **Level 2**

Staccato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

14 PERF UPBEAT REPETITION Range: F#3–C#6

Repetition performances
Level 2: 1 and 2 upbeats
Slow, medium, and fast
Normal and dynamics

01 Tr-3_perf-rep_UB-a1_sl **Samples: 112** **RAM: 7 MB** **Level 2**
1 upbeat, slow
2 velocity layers: 0–88 mp; 89–127 f

02 Tr-3_perf-rep_UB-a2_sl **Samples: 112** **RAM: 7 MB** **Level 2**
2 upbeats, slow
2 velocity layers: 0–88 p; 89–127 f

03 Tr-3_perf-rep_UB-a1_me **Samples: 112** **RAM: 7 MB** **Level 2**
1 upbeat, medium
2 velocity layers: 0–88 mp; 89–127 f

04 Tr-3_perf-rep_UB-a2_me **Samples: 112** **RAM: 7 MB** **Level 2**
2 upbeats, medium
2 velocity layers: 0–88 mp; 89–127 f

05 Tr-3_perf-rep_UB-a1_fa **Samples: 112** **RAM: 7 MB** **Level 2**
1 upbeat, fast
2 velocity layers: 0–88 p; 89–127 f

06 Tr-3_perf-rep_UB-a2_fa **Samples: 112** **RAM: 7 MB** **Level 2**
2 upbeats, fast
2 velocity layers: 0–88 mp; 89–127 f

11 Tr-3_perf-rep_dyn4_UB-a1_sl **Samples: 112** **RAM: 7 MB** **Level 2**
1 upbeat, slow, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

12 Tr-3_perf-rep_dyn4_UB-a2_sl **Samples: 112** **RAM: 7 MB** **Level 2**
2 upbeats, slow, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

13 Tr-3_perf-rep_dyn4_UB-a1_me **Samples: 112** **RAM: 7 MB** **Level 2**
1 upbeat, medium, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

14 Tr-3_perf-rep_dyn4_UB-a2_me **Samples: 112** **RAM: 7 MB** **Level 2**

2 upbeats, medium, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

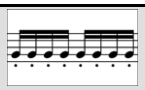
15 Tr-3_perf-rep_dyn4_UB-a1_fa **Samples: 112** **RAM: 7 MB** **Level 2**

1 upbeat, fast, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

16 Tr-3_perf-rep_dyn4_UB-a2_fa **Samples: 112** **RAM: 7 MB** **Level 2**

2 upbeats, fast, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

15 FAST REPETITION Range: F#3–C#6



Fast repetitions
Level 2: Staccato, 9 repetitions, 150 to 190 BPM
Normal and dynamics

01 Tr-3_fast-rep_150 (160/170/180/190) **Samples: 112** **RAM: 7 MB** **Level 2**

Staccato repetitions, 150–190 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

11 Tr-3_fast-rep_150_dyn (160/170/180/190) **Samples: 56** **RAM: 3 MB** **Level 2**

Staccato repetitions, dynamics, 150–190 BPM
1 velocity layer
AB switch: crescendo/diminuendo

16 UPBEAT REPETITION

Repetitions
Level 2: 1 upbeat, 80–140 BPM
2–3 upbeats, 80–140, 160, and 180 BPM

16 UPBEAT REPETITION/A Single Upbeat Range: F#3–C#6

01 Tr-3_UB-a1_80 (90/100/110/120/130/140) **Samples: 84** **RAM: 5 MB** **Level 2**

1 upbeat, 80–140 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

16 UPBEAT REPETITION/B Double Upbeats Range: F#3–C#6

01 Tr-3_UB-a2_80 (90/100/110/120/130/140/160/180) **Samples: 84** **RAM: 5 MB** **Level 2**

2 upbeats, 80–140, 160, and 180 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

16 UPBEAT REPETITION/C Triple Upbeats Range: F#3–C#6

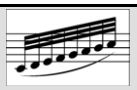
01 Tr-3_UB-a3_80 (90/100/110/120/130/140/160/180) **Samples: 84** **RAM: 5 MB** **Level 2**

3 upbeats, 80–140, 160, and 180 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 ff

17 SCALE RUNS

Phrases
Level 2: Octave runs, legato
Major and minor, C to B key
Chromatic and whole tone
Up and down

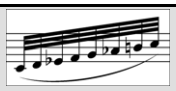
17 SCALE RUNS/Legato major



01 Tr-3_run-leg_C-ma (through to B-ma) **Samples: 22** **RAM: 1 MB** **Level 2**

Octave runs, legato, 16ths at 160 BPM
C to B major
1 velocity layer: 0–127 f
AB switch: up/down

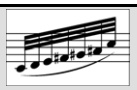
17 SCALE RUNS/Legato minor



01 Tr-3_run-leg_C-mi (through to B-mi) **Samples: 20** **RAM: 1 MB** **Level 2**

Octave runs, legato, 16ths at 160 BPM
C to B minor
1 velocity layer: 0–127 f
AB switch: up/down

17 SCALE RUNS/Special Range: F#3–C#6



01 Tr-3_run-leg_chromatic **Samples: 18** **RAM: 1 MB** **Level 2**

Octave runs, legato, 16ths at 180 BPM
Chromatic
1 velocity layer: 0–127 f
AB switch: up/down

02 Tr-3_run-leg_whole **Samples: 16** **RAM: 1 MB** **Level 2**

Octave runs, legato, 16ths at 180 BPM
Whole tone
1 velocity layer: 0–127 f
AB switch: up/down

18 ARPEGGIOS

Phrases
Level 2: Arpeggios, staccato
Diminished, major and minor from C to B key
Up and down
2 speeds for all

18 ARPEGGIOS/Staccato diminished **Range: F#3–C#6**

01 Tr-3_arp-sta_dm **Samples: 48** **RAM: 3 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
Diminished
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS/Staccato diminished fast **Range: F#3–C#6**

01 Tr-3_arp-sta+_dm **Samples: 48** **RAM: 3 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
Diminished
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS/Staccato major

01 Tr-3_arp-sta_C-ma (through to B-ma) **Samples: 20** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
C to B major
Mapping (according to key, here for C major): C – base, E – 1st inversion, G – 2nd inversion
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS/Staccato major fast

01 Tr-3_arp-sta+_C-ma (through to B-ma) **Samples: 20** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
C to B major
Mapping (according to key, here for C major): C – base, E – 1st inversion, G – 2nd inversion
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS/Staccato minor

01 Tr-3_arp-sta_C-mi (through to B-mi) **Samples: 20** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
C to B minor
Mapping (according to key, here for C minor): C – base, D#/Eb – 1st inversion, G – 2nd inversion
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 ARPEGGIOS/Staccato minor fast

01 Tr-3_arp-sta_C-mi+ (through to B-mi) **Samples: 20** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
C to B minor
Mapping (according to key, here for C minor): C – base, D#/Eb – 1st inversion, G – 2nd inversion
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

19 FALL RELEASE **Range: F#3–C#6**

Single notes and interval performances with fall release
Level 2: Sustained with and without vibrato; marcato; tuning attack; rips
Legato interval performance without and with vibrato; tuning attack
Marcato interval performance

01 Tr-3_sus_Vib+Falls **Samples: 98** **RAM: 6 MB** **Level 2**

Single notes: Sustained, vibrato, fall release
3 velocity layers: 0–55 mp; 56–108 f; 109–127 ff
Release samples
AB switch: fall short/long

02 Tr-3_sus_noVib+Falls **Samples: 140** **RAM: 8 MB** **Level 2**

Single notes: Sustained, no vibrato, fall release
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples
AB switch: fall short/long

03 Tr-3_sus_marcato+Falls **Samples: 112** **RAM: 7 MB** **Level 2**

Single notes: Sustained, marcato, fall release
2 velocity layers: 0–108 mf; 109–127 ff
Release samples
AB switch: fall short/long

04 Tr-3_sus_tune+Falls **Samples: 70** **RAM: 4 MB** **Level 2**

Single notes: Sustained, tuning, fall release
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples
AB switch: fall short/long

05 Tr-3_sus_rip+Falls **Samples: 84** **RAM: 5 MB** **Level 2**

Single notes: Sustained, rip, fall release
2 velocity layers: 0–88 mf; 89–127 f
Release samples
AB switch: fall short/long

11 Tr-3_perf-legato_noVib+Falls **Samples: 616** **RAM: 38 MB** **Level 2**

Interval performances: Legato, no Vibrato, fall release
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: fall short/long

12 Tr-3_perf-legato_Vib+Falls **Samples: 602** **RAM: 37 MB** **Level 2**

Interval performances: Legato, vibrato, fall release
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: fall short/long

13 Tr-3_perf-legato_tune+Falls **Samples: 574** **RAM: 35 MB** **Level 2**

Interval performances: Legato, tuning, fall release
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: fall short/long

14 Tr-3_perf-marcato+Falls **Samples: 669** **RAM: 41 MB** **Level 2**

Interval performances: Marcato, fall release
2 velocity layers: 0–88 mf; 89–127 ff
Release samples
AB switch: fall short/long

98 RESOURCES

Resources
Level 1: Slow legato Interval Performance
Level 2: Isolated dynamics repetitions: Legato slow and fast, portato, staccato
Single layer long notes

98 RESOURCES/01 Perf Rep dyn Range: F#3–C#6

01 Tr-3_rep_cre5_leg-sl-1 (2/3/4/5) **Samples: 14** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, slow, crescendo, 1st to 5th note
1 velocity layer

01 Tr-3_rep_dim5_leg-sl-1 (2/3/4/5) **Samples: 14** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, slow, diminuendo, 1st to 5th note
1 velocity layer

02 Tr-3_rep_cre5_leg-fa-1 (2/3/4/5) **Samples: 14** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, fast, crescendo, 1st to 5th note
1 velocity layer

02 Tr-3_rep_dim5_leg-fa-1 (2/3/4/5) **Samples: 14** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, fast, diminuendo, 1st to 5th note
1 velocity layer

03 Tr-3_rep_cre9_por-1 (2/3/4/5/6/7/8/9) **Samples: 14** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, crescendo, 1st to 9th note
1 velocity layer

03 Tr-3_rep_dim9_por-1 (2/3/4/5/6/7/8/9) **Samples: 14** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, diminuendo, 1st to 9th note
1 velocity layer

04 Tr-3_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 13** **RAM: 1 MB** **Level 2**
Extracted repetitions: Staccato, crescendo, 1st to 9th note
1 velocity layer

04 Tr-3_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 13** **RAM: 1 MB** **Level 2**
Extracted repetitions: Staccato, diminuendo, 1st to 9th note
1 velocity layer

98 RESOURCES/02 Long Notes - Single Layer Range: F#3–C#6

01 Tr-3_sus-p **Samples: 56** **RAM: 3 MB** **Level 2**
Sustained, piano
1 velocity layer
Release samples

02 Tr-3_sus-mf **Samples: 56** **RAM: 3 MB** **Level 2**

Sustained, mezzoforte
1 velocity layer
Release samples

03 Tr-3_sus-f **Samples: 56** **RAM: 3 MB** **Level 2**

Sustained, forte
1 velocity layer
Release samples

98 RESOURCES/03 Perf Speed variation Range: F#3–C#6

01 Tr-3_perf-leg_slow **Samples: 616** **RAM: 38 MB** **Level 1**

Interval performances
Legato, slow
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 Tr-3 Articulation Combi — Samples: 1003 RAM: 62 MB — Level 1

Single note articulations
Staccato, portato short, sustained with and without vibrato, crescendo-diminuendo 2 and 4 sec., fortepiano and sforzato, flutter tonguing normal and crescendo, trills half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
V1	stac	sus vib.	pfp 2s.	fp	flutter	trill half
V2	port. short	sus no vib.	pfp 4s.	sfz	flutter cres.	trill whole

L1 Tr-3 Perf-Legato Speed — Samples: 1032 RAM: 64 MB — Level 1

Interval performances
Legato slow, normal without vibrato, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal no vib.	fast

L1 Tr-3 Perf-Repetitions Combi — Samples: 644 RAM: 40 MB — Level 1

Repetition performances
Legato slow
Portato fast
Staccato fast

Matrix switches: Vertical: Modwheel, 3 zones

	repetitions
V1	legato slow
V2	portato fast
V3	staccato fast

Matrix - LEVEL 2 A - Advanced

01 Tr-3 Perf-Universal — Samples: 1891 RAM: 118 MB — Level 2

Interval performances
Legato slow, normal without vibrato, and fast
Marcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones Vertical: Modwheel, 2 zones

	H1	H2	H3
legato	slow	normal no vib.	fast
marcato	normal	normal	fast

02 Tr-3 Perf-Trill Speed

Samples: 1440 RAM: 90 MB **Level 2**

Multi interval performances
Legato without vibrato, and trills
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato no vib.	trills

03 Tr-3 Perf-All + Falls

Samples: 1341 RAM: 83 MB **Level 2**

Interval performances
Legato with and w/o
vibrato, tuning in, and marcato
Normal and with fall release
Monophonic

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
normal	legato no vib.	legato vib.	legato tuning	marcato
fall RS	%	%	%	%

04 Tr-3 Perf-Legato XFades

Samples: 700 RAM: 43 MB **Level 2**

Interval performances
Legato slow, with vibrato, and tuning in
Cell crossfading slow/vibrato and slow/tuning
Monophonic

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#2
legato	slow/vibrato	slow/tuning

05 Tr-3 Short+Long notes

Samples: 921 RAM: 57 MB **Level 2**

Single notes
Staccato, portato short and medium, sustained with and without vibrato, tuning in, and with rip attack

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1
V1	staccato	port. short	port.med.	sus. vib.
V2	%	%	%	sus. no vib.
V3	%	%	%	sus. tuning
V4	%	%	%	sus. rips

06 Tr-3 Long notes + Falls

Samples: 392 RAM: 24 MB **Level 2**

Single notes
Sustained with and without vibrato, marcato, tuning in, and with rip attack
Normal and with fall release

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	
sus. normal	vibrato	no vibrato	marcato	tuning	rips
sus. fall RS	%	%	%	%	%

07 Tr-3 Long notes XFades — Samples: 252 RAM: 15 MB Level 2

Single notes
Legato without and with vibrato, and tuning in
Cell crossfading no vibrato/vibrato and no vibrato/tuning

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#2
legato	no vib./vib.	no vib./tuning

Matrix - LEVEL 2 B - Standard

11 Tr-3 Perf-Legato Speed — Samples: 1032 RAM: 64 MB Level 2

Interval performances
Legato slow, normal without vibrato, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal	fast

12 Tr-3 Perf-Marcato Speed — Samples: 943 RAM: 58 MB Level 2

Interval performances
Marcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
marcato	normal	fast

13 Tr-3 Short notes — Samples: 722 RAM: 45 MB Level 2

Single notes
Staccato, portato short, medium, and long

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	staccato	port. short	port. medium	port.long

14 Tr-3 Long notes - All — Samples: 336 RAM: 21 MB Level 2

Single notes
Sustained with and without vibrato, marcato, tuning in, and with rip attack

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	
sustained	vibrato	no vibrato	marcato	tuning	rips

15 Tr-3 Dynamics - Small — Samples: 420 RAM: 26 MB Level 2

Dynamics: Medium crescendo and diminuendo, 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.med.	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

16 Tr-3 Dynamics - Large

Samples: 890 **RAM: 55 MB** **Level 2**

Dynamics
Medium and strong crescendo and diminuendo, 2, 3, 4, and 6 sec.
Crescendo-diminuendo, 2, 3, 4, and 6 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1
dyn.medium	2 sec.	3 sec.	4 sec.	6 sec.
dyn.strong	2 sec.	3 sec.	4 sec.	6 sec.
pfp	2 sec.	3 sec.	4 sec.	6 sec.
fp/sfz/sffz	fp	sfz	sffz	sffz

17 Tr-3 Flatter

Samples: 84 **RAM: 5 MB** **Level 2**

Flutter tonguing
Normal, crescendo, and normal/crescendo with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal	crescendo	Cell XF

18 Tr-3 Trills - All

Samples: 240 **RAM: 15 MB** **Level 2**

Trills, minor and major 2nd, normal and dynamics
AB switch crescendo/diminuendo

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
min 2nd	normal	cres/dim
maj. 2nd	normal	cres/dim

Matrix - LEVEL 2 C - Repetitions

31 Tr-3 Perf-Repetitions - Combi

Samples: 992 **RAM: 62 MB** **Level 2**

Repetition performances
Slow and fast legato, fast portato, slow and fast staccato

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	legato slow	legato fast	portato fast	staccato slow	staccato fast

32 Tr-3 Perf-Repetitions - Speed

Samples: 852 **RAM: 53 MB** **Level 2**

Repetition performances
Slow legato, fast portato, slow and fast staccato
Speed controller

Matrix switches: Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato slow	portato fast	staccato slow	staccato fast

33 Tr-3 Fast-Repetitions

Samples: 336 RAM: 21 MB Level 2

Fast repetitions: Staccato, 150–190 BPM
Please note that the VI Matrix description shows an incorrect RAM amount.

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	150	160	170	180	190

34 Tr-3 Perf Upbeat Repetitions

Samples: 448 RAM: 28 MB Level 2

Repetition performances
1 and 2 upbeats, slow and fast

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
1 upbeat	slow	fast
2 upbeats	slow	fast

35 Tr-3 Upbeats a1

Samples: 588 RAM: 36 MB Level 2

Repetitions: 1 upbeat, 80–140 BPM

Matrix switches: Horizontal: Keyswitches, C1–F#1

	C1	C#1	D1	D#1	E1	F1	F#1
speed/BPM	80	90	100	110	120	130	140

36 Tr-3 Upbeats a2

Samples: 756 RAM: 47 MB Level 2

Repetitions: 2 upbeats, 80–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	80	90	100	110	120	130	140	160	180

37 Tr-3 Upbeats a3

Samples: 756 RAM: 47 MB Level 2

Repetitions: 3 upbeats, 80–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

38 Tr-3 Upbeats all

Samples: 2100 RAM: 131 MB Level 2

Repetitions: 1–3 upbeats, 80–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
1 upbeat	80	90	100	110	120	130	140	140	140
2 upbeats	80	90	100	110	120	130	140	160	180
3 upbeats	80	90	100	110	120	130	140	160	180

Matrix - LEVEL 2 D - Scale+Phrase

41 Tr-3 Scale runs-legato - Major
Samples: 118 RAM: 7 MB Level 2

Octave runs, legato, 16ths at 160 BPM, C to B major
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
legato maj.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

42 Tr-3 Scale runs-legato - Minor
Samples: 108 RAM: 6 MB Level 2

Octave runs, legato, 16ths at 160 BPM, C to B minor
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
legato min.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

43 Tr-3 Scale runs-legato - Special
Samples: 34 RAM: 2 MB Level 2

Octave runs, legato, 16ths at 180 BPM, chromatic and whole tone
AB switch up/down

Matrix switches: Vertical: Modwheel, 2 zones

	legato
V1	chromatic
V2	whole tone

44 Tr-3 Scale runs-legato - All
Samples: 260 RAM: 16 MB Level 2

Octave runs, legato, 16ths at 160/180 BPM, C to B major and minor, chromatic and whole tone
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
minor	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
chromatic	%	%	%	%	%	%	%	%	%	%	%	%
whole tone	%	%	%	%	%	%	%	%	%	%	%	%

51 Tr-3 Arpeggios-staccato - Major
Samples: 100 RAM: 6 MB Level 2

Arpeggios, staccato, 16ths at 120 BPM, C to B major
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

52 Tr-3 Arpeggios-staccato - Major+
Samples: 100 RAM: 6 MB Level 2

Arpeggios, staccato, 16ths at 160 BPM, C to B major
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj. fast	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

53 Tr-3 Arpeggios-staccato - Minor

Samples: 100 **RAM: 6 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM, C to B minor
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

54 Tr-3 Arpeggios-staccato - Minor+

Samples: 100 **RAM: 6 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM, C to B minor
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min. fast	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

55 Tr-3 Arpeggios-staccato - All

Samples: 248 **RAM: 15 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM, C to B major and minor, diminished
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
minor	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
diminished	%	%	%	%	%	%	%	%	%	%	%	%

56 Tr-3 Arpeggios-staccato - All+

Samples: 248 **RAM: 15 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM, C to B major and minor, diminished
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
minor	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
diminished	%	%	%	%	%	%	%	%	%	%	%	%

Matrix - LEVEL 2 E - Keyswitch Vel

71 Tr-3 Legato slow - cre5

Samples: 70 **RAM: 4 MB** **Level 2**

Slow legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 Tr-3 Legato fast - cre5

Samples: 70 **RAM: 4 MB** **Level 2**

Fast legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

73 Tr-3 Portato - cre9

Samples: 126 RAM: 7 MB Level 2

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 Tr-3 Staccato - cre9

Samples: 117 RAM: 7 MB Level 2

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

75 Tr-3 Combi - cre5

Samples: 140 RAM: 8 MB Level 2

Slow and fast legato: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

76 Tr-3 Combi - cre9

Samples: 243 RAM: 15 MB Level 2

Portato and staccato: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

77 Tr-3 Legato slow - dim5

Samples: 70 RAM: 4 MB Level 2

Slow legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

78 Tr-3 Legato fast - dim5

Samples: 70 RAM: 4 MB Level 2

Fast legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

79 Tr-3 Portato - dim9 — Samples: 126 RAM: 7 MB Level 2

Portato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

80 Tr-3 Staccato - dim9 — Samples: 117 RAM: 7 MB Level 2

Staccato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

81 Tr-3 Combi - dim5 — Samples: 140 RAM: 8 MB Level 2

Slow and fast legato: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

82 Tr-3 Combi - dim9 — Samples: 243 RAM: 15 MB Level 2

Portato and staccato: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

Tr-3 VSL Preset Level 1 — Samples: 2567 RAM: 160 MB Level 1

L1 Tr-3 Perf-Legato Speed
L1 Tr-3 Articulation Combi
L1 Tr-3 Perf-Repetitions Combi
Preset keyswitches: C2–D2

Tr-3 VSL Preset Level 2 — Samples: 4613 RAM: 288 MB Level 2

01 Tr-3 Perf-Universal
02 Tr-3 Perf-Trill Speed
L1 Tr-3 Articulation Combi
31 Tr-3 Perf-Repetitions - Combi
76 Tr-3 Combi - cre9
Preset keyswitches: C2–E2

63 Trumpets - a3 mute

Patches

01 SHORT + LONG NOTES — Range: F#3–C#6

Single notes
Level 1: Staccato
Portato short
Sustained
Level 2: Portato medium

01 Tr-3_mu_staccato — **Samples: 168** **RAM: 10 MB** **Level 1**

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
4 Alternations

02 Tr-3_mu_portato_short — **Samples: 168** **RAM: 10 MB** **Level 1**

Portato, short
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
4 Alternations

03 Tr-3_mu_portato_medium — **Samples: 162** **RAM: 10 MB** **Level 2**

Portato, medium
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
4 Alternations

11 Tr-3_mu_sus — **Samples: 84** **RAM: 5 MB** **Level 1**

Sustained
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

02 DYNAMICS — Range: F#3–C#6

Dynamics
Level 1: Crescendo-diminuendo, 2 and 4 sec.
Fortepiano, sforzato
Level 2: Strong crescendo and diminuendo, 2, 3, 4, and 6 sec.
Crescendo-diminuendo, 3 and 6 sec.
Sforzatissimo

01 Tr-3_mu_dyn-str_2s — **Samples: 28** **RAM: 1 MB** **Level 2**

Strong crescendo and diminuendo, 2 sec.
1 velocity layer
AB switch: crescendo/diminuendo

02 Tr-3_mu_dyn-str_3s **Samples: 28** **RAM: 1 MB** **Level 2**

Strong crescendo and diminuendo, 3 sec.
1 velocity layer
AB switch: crescendo/diminuendo

03 Tr-3_mu_dyn-str_4s **Samples: 28** **RAM: 1 MB** **Level 2**

Strong crescendo and diminuendo, 4 sec.
1 velocity layer
AB switch: crescendo/diminuendo

04 Tr-3_mu_dyn-str_6s **Samples: 28** **RAM: 1 MB** **Level 2**

Strong crescendo and diminuendo, 6 sec.
1 velocity layer
AB switch: crescendo/diminuendo

11 Tr-3_mu_pfp_2s **Samples: 28** **RAM: 1 MB** **Level 1**

Crescendo-diminuendo, 2 sec.
2 velocity layers: 0–88 p; 89–127 f

12 Tr-3_mu_pfp_3s **Samples: 28** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 3 sec.
2 velocity layers: 0–88 p; 89–127 f

13 Tr-3_mu_pfp_4s **Samples: 28** **RAM: 1 MB** **Level 1**

Crescendo-diminuendo, 4 sec.
2 velocity layers: 0–88 p; 89–127 f

14 Tr-3_mu_pfp_6s **Samples: 28** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 6 sec.
2 velocity layers: 0–88 p; 89–127 f

21 Tr-3_mu_fp **Samples: 27** **RAM: 1 MB** **Level 1**

Fortepiano
1 velocity layer
2 Alternations

22 Tr-3_mu_sfz **Samples: 27** **RAM: 1 MB** **Level 1**

Sforzato
1 velocity layer
2 Alternations

23 Tr-3_mu_sffz **Samples: 27** **RAM: 1 MB** **Level 2**

Sforzatissimo
1 velocity layer
2 Alternations

03 FLATTER — Range: F#3–C#6

Level 1: Flutter tonguing normal and crescendo

01 Tr-3_mu_flatter — Samples: 28 — RAM: 1 MB — Level 1

Flutter tonguing
1 velocity layer: 0–127 f
Release samples

02 Tr-3_mu_flatter_cre — Samples: 14 — RAM: 1 MB — Level 1

Flutter tonguing, crescendo
1 velocity layer

10 PERF INTERVAL — Range: F#3–C6

Interval performances
Level 2: Legato
Marcato

01 Tr-3_mu_perf-legato — Samples: 668 — RAM: 41 MB — Level 2

Legato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

04 Tr-3_mu_perf-marcato — Samples: 668 — RAM: 41 MB — Level 2

Marcato
Monophonic
2 velocity layers: 0–88 mp; 89–127 f
Release samples

11 PERF REPETITION — Range: F#3–C#6

Repetition performances
Level 2: Legato
Portato
Staccato slow and fast
Normal and dynamics

01 Tr-3_mu_perf-rep_leg — Samples: 140 — RAM: 8 MB — Level 2

Legato
2 velocity layers: 0–88 p; 89–127 f

02 Tr-3_mu_perf-rep_por — Samples: 252 — RAM: 15 MB — Level 2

Portato
2 velocity layers: 0–88 p; 89–127 f

03 Tr-3_mu_perf-rep_sta-sl **Samples: 252** **RAM: 15 MB** **Level 2**

Staccato, slow
2 velocity layers: 0–88 p; 89–127 f

04 Tr-3_mu_perf-rep_sta-fa **Samples: 252** **RAM: 15 MB** **Level 2**

Staccato, fast
2 velocity layers: 0–88 p; 89–127 f

21 Tr-3_mu_perf-rep_dyn5_leg **Samples: 140** **RAM: 8 MB** **Level 2**

Legato dynamics, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

22 Tr-3_mu_perf-rep_dyn9_por **Samples: 252** **RAM: 15 MB** **Level 2**

Portato dynamics, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

23 Tr-3_mu_perf-rep_dyn9_sta-sl **Samples: 252** **RAM: 15 MB** **Level 2**

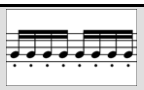
Staccato dynamics, slow, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

24 Tr-3_mu_perf-rep_dyn9_sta-fa **Samples: 252** **RAM: 15 MB** **Level 2**

Staccato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

12 FAST REPETITION

Range: F#3–C#6



Fast repetitions
Level 2: Staccato, 9 repetitions, 140 to 190 BPM
Normal and dynamics

01 Tr-3_mu_fast-rep_140 (150/160/170/180/190) **Samples: 56 RAM: 3 MB**
Level 2

Staccato repetitions, 140–190 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

11 Tr-3_mu_fast-rep_140_dyn (150/160/170/180/190) **Samples: 28 RAM: 1 MB**
Level 2

Staccato repetitions, dynamics, 140–190 BPM
1 velocity layer
AB switch: crescendo/diminuendo

13 UPBEAT REPETITIONS

Repetitions
Level 2: 1–3 upbeats, 90–140, 160, 180, and 200 BPM

13 UPBEAT REPETITIONS/A Single Upbeat Range: F#3–C#6

01 Tr-3_mu_UB-a1_90 (100/110/120/130/140/160/180/200) **Samples: 28** **RAM: 1 MB** **Level 2**
1 upbeat, 90–140, 160, 180, and 200 BPM
2 velocity layers: 0–88 p; 89–127 f

13 UPBEAT REPETITIONS/B Double Upbeats Range: F#3–C#6

01 Tr-3_mu_UB-a2_90 (100/110/120/130/140/160/180/200) **Samples: 28** **RAM: 1 MB** **Level 2**
2 upbeats, 90–140, 160, 180, and 200 BPM
2 velocity layers: 0–88 p; 89–127 f

13 UPBEAT REPETITIONS/C Triple Upbeats Range: F#3–C#6

01 Tr-3_mu_UB-a3_90 (100/110/120/130/140/160/180/200) **Samples: 28** **RAM: 1 MB** **Level 2**
3 upbeats, 90–140, 160, 180, and 200 BPM
2 velocity layers: 0–88 p; 89–127 f

98 RESOURCES

Resources
Level 2: Isolated dynamics repetitions: Legato, portato, and staccato
Single layer long notes

98 RESOURCES/01 Perf Rep dyn Range: F#3–C#6

01 Tr-3_mu_rep_cre5_leg-1 (2/3/4/5) **Samples: 14** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, crescendo, 1st to 5th note
1 velocity layer

01 Tr-3_mu_rep_dim5_leg-1 (2/3/4/5) **Samples: 14** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, diminuendo, 1st to 5th note
1 velocity layer

02 Tr-3_mu_rep_cre9_por-1 (2/3/4/5/6/7/8/9) **Samples: 14** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, crescendo, 1st to 9th note
1 velocity layer

02 Tr-3_mu_rep_dim9_por-1 (2/3/4/5/6/7/8/9) **Samples: 14** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, diminuendo, 1st to 9th note
1 velocity layer

03 Tr-3_mu_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 14** **RAM: 1 MB** **Level 2**

Extracted repetitions: Staccato, crescendo, 1st to 9th note
1 velocity layer

03 Tr-3_mu_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 14** **RAM: 1 MB** **Level 2**

Extracted repetitions: Staccato, diminuendo, 1st to 9th note
1 velocity layer

98 RESOURCES/02 Long Notes - Single Layer Range: F#3–C#6

01 Tr-3_mu_sus-p **Samples: 28** **RAM: 1 MB** **Level 2**

Sustained, piano
1 velocity layer
Release samples

02 Tr-3_mu_sus-mf **Samples: 28** **RAM: 1 MB** **Level 2**

Sustained, mezzoforte
1 velocity layer
Release samples

03 Tr-3_mu_sus-f **Samples: 28** **RAM: 1 MB** **Level 2**

Sustained, forte
1 velocity layer
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 Tr-3_mu Articulation Combi — Samples: 572 RAM: 35 MB Level 1

Single note articulations
Staccato, portato short, sustained, crescendo-diminuendo 2 and 4 sec., fortepiano and sforzato, flutter tonguing normal and crescendo

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	stac	sus	pfp 2s.	fp	flutter
V2	port. short	sus	pfp 4s.	sfz	flutter cres.

Matrix - LEVEL 2 A - Advanced

01 Tr-3_mu Perf-Universal — Samples: 1294 RAM: 80 MB Level 2

Interval performances
Legato and marcato
Monophonic

Matrix switches: Vertical: Modwheel, 2 zones

	H1
V1	legato
V2	marcato

02 Tr-3_mu Short+Long notes — Samples: 582 RAM: 36 MB Level 2

Single notes
Staccato, portato short and medium,
sustained

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	staccato	port. short	port.med.	sustained

Matrix - LEVEL 2 B - Standard

11 Tr-3_mu Dynamics - Small — Samples: 165 RAM: 10 MB Level 2

Dynamics
Strong crescendo and diminuendo, 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn. strong	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

12 Tr-3_mu Dynamics - Large
Samples: 305 RAM: 19 MB Level 2

Dynamics
Strong crescendo and diminuendo, 2, 3, 4, and 6 sec.
Crescendo-diminuendo, 2, 3, 4, and 6 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1
dyn. strong	2 sec.	3 sec.	4 sec.	6 sec.
pfp	2 sec.	3 sec.	4 sec.	6sec.
fp/sfz/sffz	fp	sfz	sffz	sffz

13 Tr-3_mu Flatter
Samples: 42 RAM: 2 MB Level 2

Flutter tonguing
Normal, crescendo, and normal/crescendo with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal	crescendo	Cell XF

Matrix - LEVEL 2 C - Repetitions

31 Tr-3_mu Perf-Repetitions - Combi
Samples: 896 RAM: 56 MB Level 2

Repetition performances
Legato, portato, and staccato slow and fast

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	legato	portato	staccato slow	staccato fast

32 Tr-3_mu Perf-Repetitions - Speed
Samples: 896 RAM: 56 MB Level 2

Repetition performances
Legato, portato, and staccato slow and fast
Speed controller

Matrix switches: Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato	portato	staccato slow	staccato fast

33 Tr-3_mu Fast-Repetitions
Samples: 196 RAM: 12 MB Level 2

Fast repetitions: Staccato, 140–190 BPM

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	140	150	160	170	180	190

34 Tr-3_mu Upbeats a1
Samples: 252 RAM: 15 MB Level 2

Repetitions: 1 upbeat, 90–140, 160, 180, and 200 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

35 Tr-3_mu Upbeats a2 — Samples: 252 RAM: 15 MB Level 2

Repetitions: 2 upbeats, 90–140, 160, 180, and 200 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

36 Tr-3_mu Upbeats a3 — Samples: 252 RAM: 15 MB Level 2

Repetitions: 3 upbeats, 90–140, 160, 180, and 200 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

37 Tr-3_mu Upbeats all — Samples: 756 RAM: 47 MB Level 2

Repetitions: 1–3 upbeats, 90–140, 160, 180, and 200 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
1 upbeat	90	100	110	120	130	140	160	180	200
2 upbeats	90	100	110	120	130	140	160	180	200
3 upbeats	90	100	110	120	130	140	160	180	200

Matrix - LEVEL 2 E - Keyswitch Vel

71 Tr-3_mu Legato - cre5 — Samples: 70 RAM: 4 MB Level 2

Legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 Tr-3_mu Portato - cre9 — Samples: 126 RAM: 7 MB Level 2

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

73 Tr-3_mu Staccato - cre9 — Samples: 126 RAM: 7 MB Level 2

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 Tr-3_mu Combi - cre9

Samples: 252 **RAM: 15 MB** **Level 2**

Portato and staccato: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

75 Tr-3_mu Legato - dim5

Samples: 70 **RAM: 4 MB** **Level 2**

Legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

76 Tr-3_mu Portato - dim9

Samples: 126 **RAM: 7 MB** **Level 2**

Portato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

77 Tr-3_mu Staccato - dim9

Samples: 126 **RAM: 7 MB** **Level 2**

Staccato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

78 Tr-3_mu Combi - dim9

Samples: 252 **RAM: 15 MB** **Level 2**

Portato and staccato: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

Tr-3_mu VSL Preset Level 1 **Samples: 572** **RAM: 35 MB** **Level 1**

L1 Tr-3_mu Articulation Combi

Tr-3_mu VSL Preset Level 2 **Samples: 2944** **RAM: 184 MB** **Level 2**

01 Tr-3_mu Perf-Universal
01 Tr-3_mu Perf-Universal
L1 Tr-3_mu Articulation Combi
31 Tr-3_mu Perf-Repetitions - Combi
74 Tr-3_mu Combi - cre9
Preset keyswitches: C2–E2

64 Horns - a4

Patches

01 SHORT + LONG NOTES — Range: G2–E5

Single notes
Level 1: Staccato
Portato short
Sustained, normal and marcato
Level 2: Portato medium and long
Sustained, blared

01 HO-4_staccato — **Samples: 159** **RAM: 9 MB** **Level 1**
Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
4 Alternations

02 HO-4_portato_short — **Samples: 162** **RAM: 10 MB** **Level 1**
Portato, short
3 velocity layers: 0–55 p; 56–108 mp; 109–127 f
4 Alternations

03 HO-4_portato_medium — **Samples: 215** **RAM: 13 MB** **Level 2**
Portato, medium
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 ff
4 Alternations

04 HO-4_portato_long — **Samples: 162** **RAM: 10 MB** **Level 2**
Portato, long
3 velocity layers: 0–66 p; 67–108 mf; 109–127 f
Release samples
2 Alternations

11 HO-4_sus — **Samples: 162** **RAM: 10 MB** **Level 1**
Sustained
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

12 HO-4_sus_marcato — **Samples: 54** **RAM: 3 MB** **Level 1**
Sustained, marcato
1 velocity layer: 0–127 ff
Release samples
2 Alternations

13 HO-4_sus_blare **Samples: 54** **RAM: 3 MB** **Level 2**

Sustained, blared
1 velocity layer: 0–127 ff
Release samples
2 Alternations

02 DYNAMICS Range: G2–E5

Dynamics
Level 1: Fortepiano, sforzato
Crescendo-diminuendo, 4 and 6 sec.
Level 2: Medium crescendo and diminuendo, 1.5, 2, 3, 4, and 6 sec.
Strong crescendo and diminuendo, 3, 4, and 6 sec.
Sforzatissimo

01 HO-4_dyn-me_1'5s **Samples: 108** **RAM: 6 MB** **Level 2**

Medium crescendo and diminuendo, 1.5 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

02 HO-4_dyn-me_2s **Samples: 108** **RAM: 6 MB** **Level 2**

Medium crescendo and diminuendo, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

03 HO-4_dyn-me_3s **Samples: 108** **RAM: 6 MB** **Level 2**

Medium crescendo and diminuendo, 3 sec.
2 velocity layers: 0–88 p-mf/mf-mp; 89–127 mf-f/ff-mf
AB switch: crescendo/diminuendo

04 HO-4_dyn-me_4s **Samples: 108** **RAM: 6 MB** **Level 2**

Medium crescendo and diminuendo, 4 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

05 HO-4_dyn-me_6s **Samples: 108** **RAM: 6 MB** **Level 2**

Medium crescendo and diminuendo, 6 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

11 HO-4_dyn-str_3s **Samples: 54** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, 3 sec.
1 velocity layer: 0–127 p-f/f-p
AB switch: crescendo/diminuendo

12 HO-4_dyn-str_4s **Samples: 54** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, 4 sec.
1 velocity layer: 0–127 p-mf/ff-p
AB switch: crescendo/diminuendo

13 HO-4_dyn-str_6s **Samples: 54** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, 6 sec.
1 velocity layer: 0–127 p-mf/ff-p
AB switch: crescendo/diminuendo

21 HO-4_pfp_4s **Samples: 14** **RAM: 1 MB** **Level 1**

Crescendo-diminuendo, 4 sec.
1 velocity layer: 0–127 mf

22 HO-4_pfp_6s **Samples: 14** **RAM: 1 MB** **Level 1**

Crescendo-diminuendo, 6 sec.
1 velocity layer: 0–127 mf

31 HO-4_fp **Samples: 27** **RAM: 1 MB** **Level 1**

Fortepiano
1 velocity layer
2 Alternations

32 HO-4_sfz **Samples: 27** **RAM: 1 MB** **Level 1**

Sforzato
1 velocity layer
2 Alternations

33 HO-4_sffz **Samples: 27** **RAM: 1 MB** **Level 2**

Sforzatissimo
1 velocity layer
2 Alternations

03 FLATTER Range: G2–E5

Level 1: Flutter tonguing normal and crescendo

01 HO-4_flatter **Samples: 54** **RAM: 3 MB** **Level 1**

Flutter tonguing
1 velocity layer: 0–127 f
Release samples

02 HO-4_flatter_cre **Samples: 27** **RAM: 1 MB** **Level 1**

Flutter tonguing, crescendo
1 velocity layer

10 PERF INTERVAL — Range: G2–D5

Interval performances
Level 1: Legato
Level 2: Legato with sustain crossfading
Marcato

01 HO-4_perf-legato — Samples: 512 — RAM: 32 MB — Level 1

Legato
Monophonic
2 velocity layers: 0–88 mp; 89–127 f
Release samples

02 HO-4_perf-legato_sus — Samples: 570 — RAM: 35 MB — Level 2

Legato
Sustain crossfading
Monophonic
3 velocity layers: Legato: 0–108 mp; 109–127 f
Sustained: 0–88 p; 89–108 mf; 109–127 f
Release samples

03 HO-4_perf-marcato — Samples: 664 — RAM: 41 MB — Level 2

Marcato
Monophonic
2 velocity layers: 0–108 mf; 109–127 ff
Release samples

11 PERF INTERVAL FAST — Range: G2–D5

Fast interval performances
Level 1: Legato
Level 2: Marcato

01 HO-4_perf-legato_fa — Samples: 632 — RAM: 39 MB — Level 1

Legato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 HO-4_perf-marcato_fa — Samples: 760 — RAM: 47 MB — Level 2

Marcato, fast
Monophonic
2 velocity layers: 0–108 mf; 109–127 ff
Release samples

12 PERF TRILL — Range: G2–D5

Multi interval performances
Level 2: Trills, legato, minor to major 2nd

01 HO-4_perf-trill — Samples: 1140 RAM: 71 MB — Level 2

Performance trills, legato, minor to major 2nd
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

13 PERF REPETITION — Range: G2–E5

Repetition performances
Level 1: Legato slow
Portato slow
Staccato slow
Level 2: Legato fast
Portato fast
Staccato fast
Dynamics for all repetitions

01 HO-4_perf-rep_leg-sl — Samples: 210 RAM: 13 MB — Level 1

Legato, slow
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

02 HO-4_perf-rep_leg-fa — Samples: 210 RAM: 13 MB — Level 2

Legato, fast
3 velocity layers: 0–55 mp; 56–108 mf; 109–127 f

03 HO-4_perf-rep_por-sl — Samples: 378 RAM: 23 MB — Level 1

Portato, slow
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

04 HO-4_perf-rep_por-fa — Samples: 378 RAM: 23 MB — Level 2

Portato, fast
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

05 HO-4_perf-rep_sta-sl — Samples: 378 RAM: 23 MB — Level 1

Staccato, slow
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

06 HO-4_perf-rep_sta-fa — Samples: 378 RAM: 23 MB — Level 2

Staccato, fast
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

21 HO-4_perf-rep_dyn5_leg-sl — Samples: 140 RAM: 8 MB — Level 2

Legato dynamics, slow, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

22 HO-4_perf-rep_dyn5_leg-fa **Samples: 140** **RAM: 8 MB** **Level 2**

Legato dynamics, fast, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

23 HO-4_perf-rep_dyn9_por-sl **Samples: 252** **RAM: 15 MB** **Level 2**

Portato dynamics, slow, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

24 HO-4_perf-rep_dyn9_por-fa **Samples: 252** **RAM: 15 MB** **Level 2**

Portato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

25 HO-4_perf-rep_dyn9_sta-sl **Samples: 252** **RAM: 15 MB** **Level 2**

Staccato dynamics, slow, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

26 HO-4_perf-rep_dyn9_sta-fa **Samples: 252** **RAM: 15 MB** **Level 2**

Staccato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

14 PERF UPBEAT REPETITION **Range: G2–E5**

Repetition performances
Level 2: 1 and 2 upbeats, slow and fast, normal and dynamics

01 HO-4_perf-rep_UB-a1_sl **Samples: 112** **RAM: 7 MB** **Level 2**

1 upbeat, slow
2 velocity layers: 0–88 p; 89–127 f

02 HO-4_perf-rep_UB-a2_sl **Samples: 112** **RAM: 7 MB** **Level 2**

2 upbeats, slow
2 velocity layers: 0–88 mp; 89–127 f

03 HO-4_perf-rep_UB-a1_fa **Samples: 112** **RAM: 7 MB** **Level 2**

1 upbeat, fast
2 velocity layers: 0–88 p; 89–127 f

04 HO-4_perf-rep_UB-a2_fa **Samples: 112** **RAM: 7 MB** **Level 2**

2 upbeats, fast
2 velocity layers: 0–88 p; 89–127 f

11 HO-4_perf-rep_dyn4_UB-a1_sl **Samples: 112** **RAM: 7 MB** **Level 2**

1 upbeat, slow, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

12 HO-4_perf-rep_dyn4_UB-a2_sl **Samples: 112** **RAM: 7 MB** **Level 2**

2 upbeats, slow, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

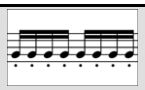
13 HO-4_perf-rep_dyn4_UB-a1_fa **Samples: 112** **RAM: 7 MB** **Level 2**

1 upbeat, fast, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

14 HO-4_perf-rep_dyn4_UB-a2_fa **Samples: 112** **RAM: 7 MB** **Level 2**

2 upbeats, fast, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

15 FAST REPETITION Range: G2–E5



Fast repetitions
Level 2: Staccato, 9 repetitions, 150 to 190 BPM
Normal and dynamics

01 HO-4_fast-rep_150 (160/170/180/190) **Samples: 56** **RAM: 3 MB** **Level 2**

Staccato repetitions, 150–190 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

11 HO-4_fast-rep_150_dyn (160/170/180/190) **Samples: 28** **RAM: 1 MB** **Level 2**

Staccato repetitions, dynamics, 150–190 BPM
1 velocity layer
AB switch: crescendo/diminuendo

16 UPBEAT REPETITION

Repetitions
Level 2: 1 upbeat, 80–130 BPM
2–3 upbeats, 80–140, 160, and 180 BPM

16 UPBEAT REPETITION/A Single Upbeat Range: G2–E5

01 HO-4_UB-a1_80 (90/100/110/120/130) **Samples: 81** **RAM: 5 MB** **Level 2**

1 upbeat, 80–130 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

16 UPBEAT REPETITION/B Double Upbeats Range: G2–E5

01 HO-4_UB-a2_80 (90/100/110/120/130/140/160/180) **Samples: 81** **RAM: 5 MB** **Level 2**

2 upbeats, 80–140, 160, and 180 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

16 UPBEAT REPETITION/C Triple Upbeats Range: G2–E5

01 HO-4_UB-a3_80 (90/100/110/120/130/140/160/180) **Samples: 81** **RAM: 5 MB** **Level 2**

3 upbeats, 80–140, 160, and 180 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

17 ARPEGGIOS

Phrases
Level 2: Arpeggios, staccato
Diminished, major and minor from C to B key
Up and down
2 speeds for all

17 ARPEGGIOS/Staccato diminished Range: A2–E5

01 HO-4_arp-sta_dm **Samples: 56** **RAM: 3 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
Diminished
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

17 ARPEGGIOS/Staccato diminished fast Range: A2–E5

01 HO-4_arp-sta+_dm **Samples: 56** **RAM: 3 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
Diminished
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

17 ARPEGGIOS/Staccato major

01 HO-4_arp-sta_C-ma (through to B-ma) **Samples: 20** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
C to B major
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

17 ARPEGGIOS/Staccato major fast

01 HO-4_arp-sta+_C-ma (through to B-ma) **Samples: 20** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
C to B major
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

17 ARPEGGIOS/Staccato minor

01 HO-4_arp-sta_C-mi (through to B-mi) **Samples: 20** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
C to B minor
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

17 ARPEGGIOS/Staccato minor fast

01 HO-4_arp-sta_C-mi+ (through to B-mi) **Samples: 20** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
C to B minor
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 GLISSANDI **Range: G2–D5**

Interval performances/Phrases
Level 2: Performance glissandos, minor 3rd to octave
Fixed glissandos, 4th to octave, up and down
Please note that fixed glissandos have different up and down ranges.

01 HO-4_perf-gliss **Samples: 244** **RAM: 15 MB** **Level 2**

Interval performances: Glissando, minor 3rd to octave
1 velocity layer: 0–127 ff
Release samples

11 HO-4_gliss-5 **Samples: 22** **RAM: 1 MB** **Level 2**

Glissando, 4th
1 velocity layer: 0–127 ff
AB switch: up/down

12 HO-4_gliss-6 **Samples: 20** **RAM: 1 MB** **Level 2**

Glissando, diminished 5th
1 velocity layer: 0–127 ff
AB switch: up/down

13 HO-4_gliss-7 **Samples: 20** **RAM: 1 MB** **Level 2**

Glissando, 5th
1 velocity layer: 0–127 ff
AB switch: up/down

14 HO-4_gliss-8 **Samples: 18** **RAM: 1 MB** **Level 2**

Glissando, minor 6th
1 velocity layer: 0–127 ff
AB switch: up/down

15 HO-4_gliss-9 **Samples: 18** **RAM: 1 MB** **Level 2**

Glissando, major 6th
1 velocity layer: 0–127 ff
AB switch: up/down

16 HO-4_gliss-10 **Samples: 16** **RAM: 1 MB** **Level 2**

Glissando, minor 7th
1 velocity layer: 0–127 ff
AB switch: up/down

17 HO-4_gliss-11 **Samples: 16** **RAM: 1 MB** **Level 2**

Glissando, major 7th
1 velocity layer: 0–127 ff
AB switch: up/down

18 HO-4_gliss-12 **Samples: 16** **RAM: 1 MB** **Level 2**

Glissando, octave
1 velocity layer: 0–127 ff
AB switch: up/down

98 RESOURCES

Resources
Level 1: Slow legato Interval Performance
Level 2: Isolated dynamics repetitions: Legato slow and fast, portato, staccato
Single layer long notes

98 RESOURCES/01 Perf Rep dyn Range: G2–E5

01 HO-4_rep_cre5_leg-sl-1 (2/3/4/5) **Samples: 14** **RAM: 1 MB** **Level 2**

Extracted repetitions: Legato, slow, crescendo, 1st to 5th note
1 velocity layer

01 HO-4_rep_dim5_leg-sl-1 (2/3/4/5) **Samples: 14** **RAM: 1 MB** **Level 2**

Extracted repetitions: Legato, slow, diminuendo, 1st to 5th note
1 velocity layer

02 HO-4_rep_cre5_leg-fa-1 (2/3/4/5) **Samples: 14** **RAM: 1 MB** **Level 2**

Extracted repetitions: Legato, fast, crescendo, 1st to 5th note
1 velocity layer

02 HO-4_rep_dim5_leg-fa-1 (2/3/4/5) **Samples: 14** **RAM: 1 MB** **Level 2**

Extracted repetitions: Legato, fast, diminuendo, 1st to 5th note
1 velocity layer

03 HO-4_rep_cre9_por-1 (2/3/4/5/6/7/8/9) **Samples: 14** **RAM: 1 MB** **Level 2**

Extracted repetitions: Portato, crescendo, 1st to 9th note
1 velocity layer

03 HO-4_rep_dim9_por-1 (2/3/4/5/6/7/8/9) **Samples: 14** **RAM: 1 MB** **Level 2**

Extracted repetitions: Portato, diminuendo, 1st to 9th note
1 velocity layer

04 HO-4_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 14** **RAM: 1 MB** **Level 2**

Extracted repetitions: Staccato, crescendo, 1st to 9th note
1 velocity layer

04 HO-4_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 14** **RAM: 1 MB** **Level 2**

Extracted repetitions: Staccato, diminuendo, 1st to 9th note
1 velocity layer

98 RESOURCES/02 Long Notes - Single Layer Range: G2–E5

01 HO-4_sus-p **Samples: 54** **RAM: 3 MB** **Level 2**

Sustained, piano
1 velocity layer
Release samples

02 HO-4_sus-mf **Samples: 54** **RAM: 3 MB** **Level 2**

Sustained, mezzoforte
1 velocity layer
Release samples

03 HO-4_sus-f **Samples: 54** **RAM: 3 MB** **Level 2**

Sustained, forte
1 velocity layer
Release samples

98 RESOURCES/03 Perf Speed variation

01 HO-4_perf-legato_slow **Range: G2–D5** **Samples: 543** **RAM: 33 MB** **Level 1**

Legato, slow
Monophonic
2 velocity layers: 0–108 mp; 109–127 f
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 HO-4 Articulation Combi — Samples: 673 RAM: 42 MB Level 1

Single note articulations
Staccato, portato short, sustained, marcato crescendo-diminuendo 4 and 6 sec., fortepiano and sforzato, flutter tonguing normal and crescendo

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	staccato	sustained	pfp 4s.	fp	flutter
V2	port. short	marcato	pfp 6s.	sfz	flutter cres.

L1 HO-4 Perf-Legato Speed — Samples: 747 RAM: 46 MB Level 1

Interval performances
Legato slow, normal, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal	fast

L1 HO-4 Perf-Repetitions Combi — Samples: 966 RAM: 60 MB Level 1

Repetition performances
Legato slow
Portato slow
Staccato slow

Matrix switches: Vertical: Modwheel, 3 zones

	repetitions
V1	legato slow
V2	portato slow
V3	staccato slow

Matrix - LEVEL 2 A - Advanced

01 HO-4 Perf-Universal — Samples: 1557 RAM: 97 MB Level 2

Interval performances
Legato slow, normal, and fast
Marcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones Vertical: Modwheel, 2 zones

	H1	H2	H3
legato	slow	normal	fast
marcato	normal	normal	fast

02 HO-4 Perf-Trill Speed
Samples: 1140 RAM: 71 MB **Level 2**

Multi interval performances
Legato and trills
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

03 HO-4 Short+Long notes
Samples: 752 RAM: 47 MB **Level 2**

Single notes
Staccato, portato short and medium
Sustained normal, marcato, and blared

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1
V1	staccato	port. short	port.med.	sustained
V2	%	%	%	marcato
V3	%	%	%	blared

Matrix - LEVEL 2 B - Standard

11 HO-4 Perf-Legato Speed
Samples: 747 RAM: 46 MB **Level 2**

Interval performances
Legato slow, normal, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal	fast

12 HO-4 Perf-Marcato Speed
Samples: 864 RAM: 54 MB **Level 2**

Interval performances
Marcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
marcato	normal	fast

13 HO-4 Short notes
Samples: 698 RAM: 43 MB **Level 2**

Single notes
Staccato, portato short, medium, and long

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	staccato	port.short	port.medium	port.long

14 HO-4 Long notes - All
Samples: 216 RAM: 13 MB **Level 2**

Single notes
Sustained normal, marcato, and blared

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
sustained	normal	marcato	blared

15 HO-4 Dynamics - Small

Samples: 405 RAM: 25 MB Level 2

Dynamics
Medium crescendo and diminuendo, 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

16 HO-4 Dynamics - Large

Samples: 541 RAM: 33 MB Level 2

Dynamics
Medium crescendo and diminuendo, 2, 3, and 4 sec.
Strong crescendo and diminuendo, 3 and 4 sec.
Crescendo-diminuendo, 4 and 6 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
dyn.strong	3 sec.	3 sec.	4 sec.
pfp	4 sec.	4 sec.	6 sec.
fp/sfz/sffz	fp	sfz	sffz

17 HO-4 Flatter

Samples: 81 RAM: 5 MB Level 2

Flutter tonguing
Normal, crescendo, and normal/crescendo with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal	crescendo	Cell XF

Matrix - LEVEL 2 C - Repetitions

31 HO-4 Perf-Repetitions - Combi

Samples: 1722 RAM: 107 MB Level 2

Repetition performances
Slow legato, slow and fast portato, slow and fast staccato

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	legato slow	portato slow	portato fast	staccato slow	staccato fast

32 HO-4 Perf-Repetitions - Speed

Samples: 1344 RAM: 84 MB Level 2

Repetition performances
Slow legato, slow and fast portato, slow staccato
Speed controller

Matrix switches: Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato slow	portato slow	portato fast	staccato slow

33 HO-4 Fast-Repetitions

Samples: 168 RAM: 10 MB Level 2

Fast repetitions: Staccato, 150–190 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	150	160	170	180	190

34 HO-4 Perf Upbeat Repetitions

Samples: 448 RAM: 28 MB Level 2

Repetition performances
1 and 2 upbeats, slow and fast

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
1 upbeat	slow	fast
2 upbeats	slow	fast

35 HO-4 Upbeats a1

Samples: 486 RAM: 30 MB Level 2

Repetitions: 1 upbeat, 80–130 BPM

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	80	90	100	110	120	130

36 HO-4 Upbeats a2

Samples: 729 RAM: 45 MB Level 2

Repetitions: 2 upbeats, 80–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	80	90	100	110	120	130	140	160	180

37 HO-4 Upbeats a3

Samples: 729 RAM: 45 MB Level 2

Repetitions: 3 upbeats, 80–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

38 HO-4 Upbeats all

Samples: 1944 RAM: 121 MB Level 2

Repetitions: 1–3 upbeats, 80–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
1 upbeat	80	90	100	110	120	130	130	130	130
2 upbeats	80	90	100	110	120	130	140	160	180
3 upbeats	80	90	100	110	120	130	140	160	180

Matrix - LEVEL 2 D - Scale+Phrase

51 HO-4 Arpeggios-staccato - Major — Samples: 112 RAM: 7 MB Level 2

Arpeggios, staccato, 16ths at 120 BPM, C to B major
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

52 HO-4 Arpeggios-staccato - Major+ — Samples: 112 RAM: 7 MB Level 2

Arpeggios, staccato, 16ths at 160 BPM, C to B major
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj. fast	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

53 HO-4 Arpeggios-staccato - Minor — Samples: 104 RAM: 6 MB Level 2

Arpeggios, staccato, 16ths at 120 BPM, C to B minor
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

54 HO-4 Arpeggios-staccato - Minor+ — Samples: 104 RAM: 6 MB Level 2

Arpeggios, staccato, 16ths at 160 BPM, C to B minor
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min. fast	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

55 HO-4 Arpeggios-staccato - All — Samples: 272 RAM: 17 MB Level 2

Arpeggios, staccato, 16ths at 120 BPM, C to B major and minor, diminished
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
minor	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
diminished	%	%	%	%	%	%	%	%	%	%	%	%

56 HO-4 Arpeggios-staccato - All+ — Samples: 272 RAM: 17 MB Level 2

Arpeggios, staccato, 16ths at 160 BPM, C to B major and minor, diminished
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
minor	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
diminished	%	%	%	%	%	%	%	%	%	%	%	%

Matrix - LEVEL 2 E - Keyswitch Vel

71 HO-4 Legato slow - cre5 — Samples: 70 RAM: 4 MB Level 2

Slow legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 HO-4 Legato fast - cre5 — Samples: 70 RAM: 4 MB Level 2

Fast legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

73 HO-4 Portato - cre9 — Samples: 126 RAM: 7 MB Level 2

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 HO-4 Staccato - cre9 — Samples: 126 RAM: 7 MB Level 2

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

75 HO-4 Combi - cre5 — Samples: 140 RAM: 8 MB Level 2

Slow and fast legato: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

76 HO-4 Combi - cre9 — Samples: 252 RAM: 15 MB Level 2

Portato and staccato: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

77 HO-4 Legato slow - dim5

Samples: 70 **RAM: 4 MB** **Level 2**

Slow legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

78 HO-4 Legato fast - dim5

Samples: 70 **RAM: 4 MB** **Level 2**

Fast legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

79 HO-4 Portato - dim9

Samples: 126 **RAM: 7 MB** **Level 2**

Portato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

80 HO-4 Staccato - dim9

Samples: 126 **RAM: 7 MB** **Level 2**

Staccato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

81 HO-4 Combi - dim5

Samples: 140 **RAM: 8 MB** **Level 2**

Slow and fast legato: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

82 HO-4 Combi - dim9

Samples: 252 **RAM: 15 MB** **Level 2**

Portato and staccato: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

HO-4 VSL Preset Level 1 **Samples: 2251 RAM: 140 MB** **Level 1**

L1 HO-4 Perf-Legato Speed
L1 HO-4 Articulation Combi
L1 HO-4 Perf-Repetitions Combi
Preset keyswitches: C6–D6

HO-4 VSL Preset Level 2 **Samples: 4639 RAM: 289 MB** **Level 2**

01 HO-4 Perf-Universal
02 HO-4 Perf-Trill Speed
L1 HO-4 Articulation Combi
31 HO-4 Perf-Repetitions - Combi
76 HO-4 Combi - cre9
Preset keyswitches: C6–E6

64 Horns - a4 stopped

Patches

01 SHORT + LONG NOTES — Range: A#1–D5

Single notes
Level 2: Staccato
Sustained

01 HO-4_sto_staccato — **Samples: 114** **RAM: 7 MB** **Level 2**

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

11 HO-4_sto_sus — **Samples: 114** **RAM: 7 MB** **Level 2**

Sustained
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

02 DYNAMICS — Range: A#1–D5

Dynamics
Level 2: Medium crescendo and diminuendo, 1.5 and 2 sec.
Strong crescendo and diminuendo, 3 and 4 sec.
Fortepiano, sforzato, sforzatissimo

01 HO-4_sto_dyn-me_1'5s — **Samples: 76** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo, 1.5 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

02 HO-4_sto_dyn-me_2s — **Samples: 76** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

11 HO-4_sto_dyn-str_3s — **Samples: 38** **RAM: 2 MB** **Level 2**

Strong crescendo and diminuendo, 3 sec.
1 velocity layer
AB switch: crescendo/diminuendo

12 HO-4_sto_dyn-str_4s — **Samples: 38** **RAM: 2 MB** **Level 2**

Strong crescendo and diminuendo, 4 sec.
1 velocity layer
AB switch: crescendo/diminuendo

21 HO-4_sto_fp **Samples: 19** **RAM: 1 MB** **Level 2**

Fortepiano
1 velocity layer

22 HO-4_sto_sfz **Samples: 19** **RAM: 1 MB** **Level 2**

Sforzato
1 velocity layer

23 HO-4_sto_sffz **Samples: 19** **RAM: 1 MB** **Level 2**

Sforzatissimo
1 velocity layer

10 PERF INTERVAL **Range: A#1–D5**

Interval performances
Level 2: Legato, legato with sustain crossfading

01 HO-4_sto_perf-legato **Samples: 465** **RAM: 29 MB** **Level 2**

Legato
Monophonic
1 velocity layer: 0–127 mf
Release samples

02 HO-4_sto_perf-legato_sus **Samples: 486** **RAM: 30 MB** **Level 2**

Legato with sustain crossfading
Monophonic
3 velocity layers: Legato: 0–127 mf
Sustained: 0–55 p; 56–108 mf; 109–127 f
Release samples

11 PERF REPETITION **Range: A#1–D5**

Repetition performances
Level 2: Legato
Portato
Staccato
Normal and dynamics

01 HO-4_sto_perf-rep_leg **Samples: 190** **RAM: 11 MB** **Level 2**

Legato
2 velocity layers: 0–88 p; 89–127 f

02 HO-4_sto_perf-rep_por **Samples: 342** **RAM: 21 MB** **Level 2**

Portato
2 velocity layers: 0–88 p; 89–127 f

03 HO-4_sto_perf-rep_sta **Samples: 342** **RAM: 21 MB** **Level 2**

Staccato
2 velocity layers: 0–88 p; 89–127 ff

21 HO-4_sto_perf-rep_dyn5_leg **Samples: 190** **RAM: 11 MB** **Level 2**

Legato dynamics, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

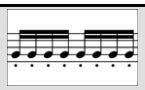
22 HO-4_sto_perf-rep_dyn9_por **Samples: 342** **RAM: 21 MB** **Level 2**

Portato dynamics, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

23 HO-4_sto_perf-rep_dyn9_sta **Samples: 342** **RAM: 21 MB** **Level 2**

Staccato dynamics, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

12 FAST REPETITION Range: A#1–D5



Fast repetitions
Level 2: Staccato, 9 repetitions, 140 to 190 BPM
Normal and dynamics

01 HO-4_sto_fast-rep_140 (150/160/170/180/190) **Samples: 76** **RAM: 4 MB** **Level 2**

Staccato repetitions, 140–190 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

11 HO-4_sto_fast-rep_140_dyn (150/160/170/180/190) **Samples: 38** **RAM: 2 MB** **Level 2**

Staccato repetitions, dynamics, 140–190 BPM
1 velocity layer
AB switch: crescendo/diminuendo

13 UPBEAT REPETITION

Repetitions
Level 2: 1–3 upbeats, 90–140 BPM

13 UPBEAT REPETITION/A Single Upbeat Range: A#1–D5

01 HO-4_sto_UB-a1_90 (100/110/120/130/140) **Samples: 38** **RAM: 2 MB** **Level 2**

1 upbeat, 90–140 BPM
2 velocity layers: 0–88 p; 89–127 f

13 UPBEAT REPETITION/B Double Upbeats Range: A#1–D5

01 HO-4_sto_UB-a2_90 (100/110/120/130/140) **Samples: 38** **RAM: 2 MB** **Level 2**

2 upbeats, 90–140 BPM
2 velocity layers: 0–88 p; 89–127 f

13 UPBEAT REPETITION/C Triple Upbeats Range: A#1–D5

01 HO-4_sto_UB-a3_90 (100/110/120/130/140) **Samples: 38** **RAM: 2 MB** **Level 2**

3 upbeats, 90–140 BPM
2 velocity layers: 0–88 p; 89–127 f

98 RESOURCES

Resources
Level 2: Isolated dynamics repetitions: Legato, portato, and staccato
Single layer long notes

98 RESOURCES/01 Perf Rep dyn Range: A#1–D5

01 HO-4_sto_rep_cre5_leg-1 (2/3/4/5) **Samples: 19** **RAM: 1 MB** **Level 2**

Extracted repetitions: Legato, crescendo, 1st to 5th note
1 velocity layer

01 HO-4_sto_rep_dim5_leg-1 (2/3/4/5) **Samples: 19** **RAM: 1 MB** **Level 2**

Extracted repetitions: Legato, diminuendo, 1st to 5th note
1 velocity layer

02 HO-4_sto_rep_cre9_por-1 (2/3/4/5/6/7/8/9) **Samples: 19** **RAM: 1 MB** **Level 2**

Extracted repetitions: Portato, crescendo, 1st to 9th note
1 velocity layer

02 HO-4_sto_rep_dim9_por-1 (2/3/4/5/6/7/8/9) **Samples: 19** **RAM: 1 MB** **Level 2**

Extracted repetitions: Portato, diminuendo, 1st to 9th note
1 velocity layer

03 HO-4_sto_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 19** **RAM: 1 MB** **Level 2**

Extracted repetitions: Staccato, crescendo, 1st to 9th note
1 velocity layer

03 HO-4_sto_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 19** **RAM: 1 MB** **Level 2**

Extracted repetitions: Staccato, diminuendo, 1st to 9th note
1 velocity layer

98 RESOURCES/02 Long Notes - Single Layer Range: A#1–D5

01 HO-4_sto_sus-p **Samples: 38** **RAM: 2 MB** **Level 2**

Sustained, piano
1 velocity layer
Release samples

02 HO-4_sto_sus-mf **Samples: 38** **RAM: 2 MB** **Level 2**

Sustained, mezzoforte
1 velocity layer
Release samples

03 HO-4_sto_sus-f **Samples: 38** **RAM: 2 MB** **Level 2**

Sustained, forte
1 velocity layer
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 2 B - Standard

11 HO-4_sto Perf-Legato — Samples: 560 RAM: 35 MB Level 2

Interval performances
Legato normal and with sustain crossfading
Monophonic

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
legato	normal	sus-XF

12 HO-4_sto Short + Long notes — Samples: 228 RAM: 14 MB Level 2

Single notes: Staccato and sustained

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	staccato	sustained

13 HO-4_sto Dynamics — Samples: 209 RAM: 13 MB Level 2

Dynamics
Medium crescendo and diminuendo 2 sec., strong crescendo and diminuendo 3 and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
cres/dim	med. 2 sec.	str. 3 sec.	str. 4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

Matrix - LEVEL 2 C - Repetitions

31 HO-4_sto Perf-Repetitions - Combi — Samples: 874 RAM: 54 MB Level 2

Repetition performances
Legato, portato, and staccato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	legato	portato	staccato

32 HO-4_sto Perf-Repetitions - Speed — Samples: 874 RAM: 54 MB Level 2

Repetition performances
Legato, portato, and staccato
Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
V1	legato	portato	staccato

33 HO-4_sto Fast-Repetitions — Samples: 266 RAM: 16 MB Level 2

Fast repetitions: Staccato, 140–190 BPM

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	140	150	160	170	180	190

35 HO-4_sto Upbeats a1 — Samples: 228 RAM: 14 MB Level 2

Repetitions: 1 upbeat, 90–140 BPM

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	90	100	110	120	130	140

36 HO-4_sto Upbeats a2 — Samples: 228 RAM: 14 MB Level 2

Repetitions: 2 upbeats, 90–140 BPM

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	90	100	110	120	130	140

37 HO-4_sto Upbeats a3 — Samples: 228 RAM: 14 MB Level 2

Repetitions: 3 upbeats, 90–140 BPM

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	90	100	110	120	130	140

38 HO-4_sto Upbeats all — Samples: 612 RAM: 38 MB Level 2

Repetitions: 1–3 upbeats, 90–140 BPM

Matrix switches: Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1
1 upbeat	90	100	110	120	130	140
2 upbeats	90	100	110	120	130	140
3 upbeats	90	100	110	120	130	140

Matrix - LEVEL 2 E - Keyswitch Vel

71 HO-4_sto Legato - cre5 — Samples: 95 RAM: 5 MB Level 2

Legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 HO-4_sto Portato - cre9 — Samples: 171 RAM: 10 MB Level 2

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

73 HO-4_sto Staccato - cre9

Samples: 171 **RAM: 10 MB** **Level 2**

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 HO-4_sto Combi - cre9

Samples: 342 **RAM: 21 MB** **Level 2**

Portato and staccato: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

75 HO-4_sto Legato - dim5

Samples: 95 **RAM: 5 MB** **Level 2**

Legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

76 HO-4_sto Portato - dim9

Samples: 171 **RAM: 10 MB** **Level 2**

Portato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

77 HO-4_sto Staccato - dim9

Samples: 171 **RAM: 10 MB** **Level 2**

Staccato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

78 HO-4_sto Combi - dim9

Samples: 342 **RAM: 21 MB** **Level 2**

Portato and staccato: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

HO-4_sto VSL Preset Level 2 **Samples: 1890 RAM: 118 MB** **Level 2**

11 HO-4_sto Perf-Legato
11 HO-4_sto Perf-Legato
12 HO-4_sto Short + Long notes
31 HO-4_sto Perf-Repetitions - Combi
74 HO-4_sto Combi - cre9
Preset keyswitches: C6–E6

66 Trombones - a3

Patches

01 SHORT + LONG NOTES — Range: C2–A#4

Single notes
Level 1: Staccato short
Portato short
Sustained, normal and marcato
Level 2: Staccato medium
Portato medium and long

01 TB-3_staccato_short — **Samples: 224** **RAM: 14 MB** **Level 1**
Staccato, short
4 velocity layers: 0–55 p; 56–88 mf; 89–108 f; 109–127 ff
4 Alternations

02 TB-3_staccato_medium — **Samples: 224** **RAM: 14 MB** **Level 2**
Staccato, medium
4 velocity layers: 0–55 p; 56–88 mf; 89–108 f; 109–127 ff
4 Alternations

03 TB-3_portato_short — **Samples: 224** **RAM: 14 MB** **Level 1**
Portato, short
4 velocity layers: 0–55 p; 56–88 mf; 89–108 f; 109–127 ff
4 Alternations

04 TB-3_portato_medium — **Samples: 224** **RAM: 14 MB** **Level 2**
Portato, medium
4 velocity layers: 0–55 pp; 56–88 mf; 89–108 f; 109–127 ff
4 Alternations

05 TB-3_portato_long — **Samples: 224** **RAM: 14 MB** **Level 2**
Portato, long
4 velocity layers: 0–55 p; 56–88 mf; 89–108 f; 109–127 ff
Release samples
2 Alternations

11 TB-3_sus — **Samples: 224** **RAM: 14 MB** **Level 1**
Sustained
4 velocity layers: 0–55 p; 56–88 mf; 89–108 f; 109–127 ff
Release samples

12 TB-3_sus_marcato — **Samples: 112** **RAM: 7 MB** **Level 1**
Sustained, marcato
2 velocity layers: 0–108 mf; 109–127 ff
Release samples

02 DYNAMICS Range: C2–A#4

Dynamics

Level 1: Crescendo-diminuendo, 4 and 6 sec.
Fortepiano, sforzato

Level 2: Medium crescendo and diminuendo, 1.5, 2, 3, 4, and 6 sec.
Strong crescendo and diminuendo, 2, 3, 4, and 6 sec.
Crescendo-diminuendo, 8 and 10 sec.
Sforzatissimo

01 TB-3_dyn-me_1'5s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, 1.5 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

02 TB-3_dyn-me_2s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

03 TB-3_dyn-me_3s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, 3 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

04 TB-3_dyn-me_4s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, 4 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

05 TB-3_dyn-me_6s **Samples: 112** **RAM: 7 MB** **Level 2**

Medium crescendo and diminuendo, 6 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-ff/ff-mf
AB switch: crescendo/diminuendo

11 TB-3_dyn-str_2s **Samples: 56** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, 2 sec.
1 velocity layer: 0–127 p-f/f-p
AB switch: crescendo/diminuendo

12 TB-3_dyn-str_3s **Samples: 56** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, 3 sec.
1 velocity layer: 0–127 p-f/f-p
AB switch: crescendo/diminuendo

13 TB-3_dyn-str_4s **Samples: 56** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, 4 sec.
1 velocity layer: 0–127 p-f/ff-p
AB switch: crescendo/diminuendo

14 TB-3_dyn-str_6s **Samples: 56** **RAM: 3 MB** **Level 2**

Strong crescendo and diminuendo, 6 sec.
1 velocity layer: 0–127 p-f/ff-p
AB switch: crescendo/diminuendo

21 TB-3_pfp_4s **Samples: 14** **RAM: 1 MB** **Level 1**

Crescendo-diminuendo, 4 sec.
1 velocity layer

22 TB-3_pfp_6s **Samples: 14** **RAM: 1 MB** **Level 1**

Crescendo-diminuendo, 6 sec.
1 velocity layer

23 TB-3_pfp_8s **Samples: 14** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 8 sec.
1 velocity layer

24 TB-3_pfp_10s **Samples: 14** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 10 sec.
1 velocity layer

31 TB-3_fp **Samples: 28** **RAM: 1 MB** **Level 1**

Fortepiano
1 velocity layer
2 Alternations

32 TB-3_sfz **Samples: 28** **RAM: 1 MB** **Level 1**

Sforzato
1 velocity layer
2 Alternations

33 TB-3_sffz **Samples: 28** **RAM: 1 MB** **Level 2**

Sforzatissimo
1 velocity layer
2 Alternations

03 FLATTER **Range: C2–A#4**

Level 1: Flutter tonguing normal and crescendo

01 TB-3_flatter **Samples: 56** **RAM: 3 MB** **Level 1**

Flutter tonguing
1 velocity layer: 0–127 f
Release samples

02 TB-3_flatter_cre **Samples: 28** **RAM: 1 MB** **Level 1**

Flutter tonguing, crescendo
1 velocity layer

04 CLUSTER

Range: C2–A#4

Three-note clusters

Level 2: Staccato and sustained
Dynamics, 1.5 and 4 sec., sforzato
Repetition performances, legato, normal and dynamics

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01 TB-3_clu_staccato — **Samples: 56** — **RAM: 3 MB** — **Level 2**

Clusters, staccato
2 velocity layers: 0–88 mp; 89–127 f
2 Alternations

---

02 TB-3_clu_sus — **Samples: 28** — **RAM: 1 MB** — **Level 2**

Clusters, sustained
1 velocity layer: 0–127 mp
Release samples

---

03 TB-3_clu_dyn_1'5s — **Samples: 28** — **RAM: 1 MB** — **Level 2**

Clusters, strong crescendo and diminuendo, 1.5 sec.
1 velocity layer
AB switch: crescendo/diminuendo

---

04 TB-3_clu_dyn_4s — **Samples: 28** — **RAM: 1 MB** — **Level 2**

Clusters, strong crescendo and diminuendo, 4 sec.
1 velocity layer
AB switch: crescendo/diminuendo

---

05 TB-3_clu_sfz — **Samples: 14** — **RAM: 1 MB** — **Level 2**

Clusters, sforzato
1 velocity layer

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06 TB-3_clu_perf-rep_leg — **Samples: 140** — **RAM: 8 MB** — **Level 2**

Repetition performances: Clusters, legato
2 velocity layers: 0–88 p; 89–127 f

---

07 TB-3_clu_perf-rep_dyn5_leg — **Samples: 140** — **RAM: 8 MB** — **Level 2**

Repetition performances: Clusters, legato dynamics, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

10 PERF INTERVAL

Range: C2–A#4

Interval performances
Level 1: Legato
Level 2: Legato with sustain crossfading
Marcato

01 TB-3_perf-legato

Samples: 616 **RAM: 38 MB** **Level 1**

Legato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 TB-3_perf-legato_sus

Samples: 728 **RAM: 45 MB** **Level 2**

Legato
Sustain crossfading
Monophonic
4 velocity layers: Legato: 0–88 p; 89–127 f
Sustained: 0–55 p; 56–88 mf; 89–108 f; 109–127 ff
Release samples

03 TB-3_perf-marcato

Range: C2–G#4 **Samples: 669** **RAM: 41 MB** **Level 2**

Marcato
Monophonic
2 velocity layers: 0–108 mp; 109–127 f
Release samples

11 PERF INTERVAL FAST

Fast interval performances
Level 1: Legato
Level 2: Marcato

01 TB-3_perf-legato_fa

Range: C2–A#4 **Samples: 722** **RAM: 45 MB** **Level 1**

Legato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 TB-3_perf-marcato_fa

Range: C2–G#4 **Samples: 777** **RAM: 48 MB** **Level 2**

Marcato, fast
Monophonic
2 velocity layers: 0–108 mp; 109–127 f
Release samples

12 PERF TRILL — Range: C2–A#4

Multi interval performances
Level 2: Trills, legato, minor to major 2nd

01 TB-3_perf-trill — Samples: 1232 RAM: 77 MB Level 2

Performance trills, legato, minor to major 2nd
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

13 PERF REPETITION — Range: C2–A#4

Repetition performances
Level 1: Legato slow
Portato slow
Staccato slow
Level 2: Legato fast
Portato fast
Staccato fast
Dynamics for all repetitions

01 TB-3_perf-rep_leg-sl — Samples: 150 RAM: 9 MB Level 1

Legato, slow
2 velocity layers: 0–88 p; 89–127 f

02 TB-3_perf-rep_leg-fa — Samples: 150 RAM: 9 MB Level 2

Legato, fast
2 velocity layers: 0–88 mp; 89–127 f

03 TB-3_perf-rep_por-sl — Samples: 270 RAM: 16 MB Level 1

Portato, slow
2 velocity layers: 0–88 p; 89–127 f

04 TB-3_perf-rep_por-fa — Samples: 270 RAM: 16 MB Level 2

Portato, fast
2 velocity layers: 0–88 p; 89–127 f

05 TB-3_perf-rep_sta-sl — Samples: 270 RAM: 16 MB Level 1

Staccato, slow
2 velocity layers: 0–88 p; 89–127 f

06 TB-3_perf-rep_sta-fa — Samples: 270 RAM: 16 MB Level 2

Staccato, fast
2 velocity layers: 0–88 mp; 89–127 f

21 TB-3_perf-rep_dyn5_leg-sl — Samples: 150 RAM: 9 MB Level 2

Legato dynamics, slow, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

22 TB-3_perf-rep_dyn5_leg-fa **Samples: 150** **RAM: 9 MB** **Level 2**

Legato dynamics, fast, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

23 TB-3_perf-rep_dyn9_por-sl **Samples: 270** **RAM: 16 MB** **Level 2**

Portato dynamics, slow, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

24 TB-3_perf-rep_dyn9_por-fa **Samples: 270** **RAM: 16 MB** **Level 2**

Portato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

25 TB-3_perf-rep_dyn9_sta-sl **Samples: 270** **RAM: 16 MB** **Level 2**

Staccato dynamics, slow, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

26 TB-3_perf-rep_dyn9_sta-fa **Samples: 270** **RAM: 16 MB** **Level 2**

Staccato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

14 PERF UPBEAT REPETITION **Range: C2–A#4**

Repetition performances
Level 2: 1 and 2 upbeats, slow, medium, and fast
Normal and dynamics

01 TB-3_perf-rep_UB-a1_sl **Samples: 120** **RAM: 7 MB** **Level 2**

1 upbeat, slow
2 velocity layers: 0–88 p; 89–127 f

02 TB-3_perf-rep_UB-a2_sl **Samples: 120** **RAM: 7 MB** **Level 2**

2 upbeats, slow
2 velocity layers: 0–88 p; 89–127 f

03 TB-3_perf-rep_UB-a1_me **Samples: 120** **RAM: 7 MB** **Level 2**

1 upbeat, medium
2 velocity layers: 0–88 p; 89–127 f

04 TB-3_perf-rep_UB-a2_me **Samples: 120** **RAM: 7 MB** **Level 2**

2 upbeats, medium
2 velocity layers: 0–88 p; 89–127 f

05 TB-3_perf-rep_UB-a1_fa **Samples: 120** **RAM: 7 MB** **Level 2**

1 upbeat, fast
2 velocity layers: 0–88 p; 89–127 f

06 TB-3_perf-rep_UB-a2_fa **Samples: 112** **RAM: 7 MB** **Level 2**

2 upbeats, fast
2 velocity layers: 0–88 p; 89–127 f

11 TB-3_perf-rep_dyn4_UB-a1_sl **Samples: 120** **RAM: 7 MB** **Level 2**

1 upbeat, slow, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

12 TB-3_perf-rep_dyn4_UB-a2_sl **Samples: 120** **RAM: 7 MB** **Level 2**

2 upbeats, slow, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

13 TB-3_perf-rep_dyn4_UB-a1_me **Samples: 120** **RAM: 7 MB** **Level 2**

1 upbeat, medium, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

14 TB-3_perf-rep_dyn4_UB-a2_me **Samples: 120** **RAM: 7 MB** **Level 2**

2 upbeats, medium, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

15 TB-3_perf-rep_dyn4_UB-a1_fa **Samples: 120** **RAM: 7 MB** **Level 2**

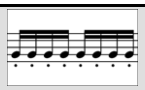
1 upbeat, fast, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

16 TB-3_perf-rep_dyn4_UB-a2_fa **Samples: 112** **RAM: 7 MB** **Level 2**

2 upbeats, fast, dynamics
4 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

15 FAST REPETITION

Range: D2–A4



Fast repetitions
Level 2: Staccato, 9 repetitions, 140 to 180 BPM
Normal and dynamics

01 TB-3_fast-rep_140 (150/160/170/180) **Samples: 112** **RAM: 7 MB** **Level 2**

Staccato repetitions, 140–180 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

11 TB-3_fast-rep_140_dyn (150/160/170/180) **Samples: 56** **RAM: 3 MB** **Level 2**

Staccato repetitions, dynamics, 140–180 BPM
1 velocity layer
AB switch: crescendo/diminuendo

16 UPBEAT REPETITION

Repetitions
Level 2: 1 upbeat, 80–140 BPM
2–3 upbeats, 80–140, 160, and 180 BPM

16 UPBEAT REPETITION/A Single Upbeat Range: D2–A4

01 TB-3_UB-a1_80 (90/100/110/120/130/140) **Samples: 84** **RAM: 5 MB** **Level 2**

1 upbeat, 80–140 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

16 UPBEAT REPETITION/B Double Upbeats Range: D2–A4

01 TB-3_UB-a2_80 (90/100/110/120/130/140/160/180) **Samples: 84** **RAM: 5 MB** **Level 2**

2 upbeats, 80–140, 160, and 180 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

16 UPBEAT REPETITION/C Triple Upbeats Range: D2–A4

01 TB-3_UB-a3_80 (90/100/110/120/130/140/160/180) **Samples: 84** **RAM: 5 MB** **Level 2**

3 upbeats, 80–140, 160, and 180 BPM
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

17 ARPEGGIOS

Phrases
Level 2: Arpeggios, staccato
Diminished, major and minor from C to B key
Up and down
2 speeds for all

17 ARPEGGIOS/Staccato diminished Range: D2–A4

01 TB-3_arp-sta_dm **Samples: 52** **RAM: 3 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
Diminished
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

17 ARPEGGIOS/Staccato diminished fast Range: D2–A4

01 TB-3_arp-sta+_dm **Samples: 52** **RAM: 3 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
Diminished
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

17 ARPEGGIOS/Staccato major

01 TB-3_arp-sta_C-ma (through to B-ma) **Samples: 20** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
C to B major
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

17 ARPEGGIOS/Staccato major fast

01 TB-3_arp-sta+_C-ma (through to B-ma) **Samples: 20** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
C to B major
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

17 ARPEGGIOS/Staccato minor

01 TB-3_arp-sta_C-mi (through to B-mi) **Samples: 20** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM
C to B minor
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

17 ARPEGGIOS/Staccato minor fast

01 TB-3_arp-sta_C-mi+ (through to B-mi) **Samples: 20** **RAM: 1 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM
C to B minor
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

18 GLISSANDI Range: C2–A#4

Interval performances/Phrases

Level 2: Performance glissandos, minor 2nd to diminished 5th
Fixed glissandos, minor 2nd to diminished 5th, up and down
Please note that fixed glissandos have different up and down ranges.

01 TB-3_perf-gliss **Samples: 782** **RAM: 48 MB** **Level 2**

Interval performances: Glissando, minor 2nd to diminished 5th
2 velocity layers: 0–88 mp; 89–127 f
Release samples

11 TB-3_gliss-1 **Samples: 108** **RAM: 6 MB** **Level 2**

Glissando, minor 2nd
2 velocity layers: 0–88 mp; 89–127 f
AB switch: up/down

12 TB-3_gliss-2 **Samples: 104** **RAM: 6 MB** **Level 2**

Glissando, major 2nd
2 velocity layers: 0–88 mp; 89–127 f
AB switch: up/down

13 TB-3_gliss-3 **Samples: 92** **RAM: 5 MB** **Level 2**

Glissando, minor 3rd
2 velocity layers: 0–88 mp; 89–127 f
AB switch: up/down

14 TB-3_gliss-4 **Samples: 80** **RAM: 5 MB** **Level 2**

Glissando, major 3rd
2 velocity layers: 0–88 mp; 89–127 f
AB switch: up/down

15 TB-3_gliss-5 **Samples: 52** **RAM: 3 MB** **Level 2**

Glissando, 4th
2 velocity layers: 0–88 mp; 89–127 f
AB switch: up/down

16 TB-3_gliss-6 **Samples: 18** **RAM: 1 MB** **Level 2**

Glissando, diminished 5th
2 velocity layers: 0–88 mp; 89–127 f
AB switch: up/down

98 RESOURCES

Resources
Level 1: Slow legato Interval Performance
Level 2: Isolated dynamics repetitions: Legato slow and fast, portato, staccato
Single layer long notes

98 RESOURCES/01 Perf Rep dyn Range: C2–A#4

01 TB-3_rep_cre5_leg-sl-1 (2/3/4/5) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, slow, crescendo, 1st to 5th note
1 velocity layer

01 TB-3_rep_dim5_leg-sl-1 (2/3/4/5) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, slow, diminuendo, 1st to 5th note
1 velocity layer

02 TB-3_rep_cre5_leg-fa-1 (2/3/4/5) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, fast, crescendo, 1st to 5th note
1 velocity layer

02 TB-3_rep_dim5_leg-fa-1 (2/3/4/5) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, fast, diminuendo, 1st to 5th note
1 velocity layer

03 TB-3_rep_cre9_por-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, crescendo, 1st to 9th note
1 velocity layer

03 TB-3_rep_dim9_por-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, diminuendo, 1st to 9th note
1 velocity layer

04 TB-3_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Staccato, crescendo, 1st to 9th note
1 velocity layer

04 TB-3_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Staccato, diminuendo, 1st to 9th note
1 velocity layer

98 RESOURCES/02 Long Notes - Single Layer Range: C2–A#4

01 TB-3_sus-p **Samples: 56** **RAM: 3 MB** **Level 2**

Sustained, piano
1 velocity layer
Release samples

02 TB-3_sus-mf **Samples: 56** **RAM: 3 MB** **Level 2**

Sustained, mezzoforte
1 velocity layer
Release samples

03 TB-3_sus-f **Samples: 56** **RAM: 3 MB** **Level 2**

Sustained, forte
1 velocity layer
Release samples

04 TB-3_sus-ff **Samples: 56** **RAM: 3 MB** **Level 2**

Sustained, fortissimo
1 velocity layer
Release samples

98 RESOURCES/03 Perf Speed variation Range: C2–A#4

01 TB-3_perf-legato_slow **Samples: 672** **RAM: 42 MB** **Level 1**

Interval performances
Legato, slow
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 TB-3 Articulation Combi — Samples: 896 RAM: 56 MB Level 1

Single note articulations
Staccato, portato short, sustained, marcato crescendo-diminuendo 4 and 6 sec., fortepiano and sforzato, flutter tonguing normal and crescendo

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	staccato	sustained	pfp 4s.	fp	flutter
V2	port. short	marcato	pfp 6s.	sfz	flutter cres.

L1 TB-3 Perf-Legato Speed — Samples: 886 RAM: 55 MB Level 1

Interval performances
Legato slow, normal, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal	fast

L1 TB-3 Perf-Repetitions Combi — Samples: 690 RAM: 43 MB Level 1

Repetition performances
Legato slow
Portato slow
Staccato slow

Matrix switches: Vertical: Modwheel, 3 zones

	repetitions
V1	legato slow
V2	portato slow
V3	staccato slow

Matrix - LEVEL 2 A - Advanced

01 TB-3 Perf-Universal — Samples: 1711 RAM: 106 MB Level 2

Interval performances
Legato slow, normal, and fast
Marcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones Vertical: Modwheel, 2 zones

	H1	H2	H3
legato	slow	normal	fast
marcato	normal	normal	fast

02 TB-3 Perf-Trill Speed
Samples: 1336 RAM: 83 MB **Level 2**

Multi interval performances
Legato and trills
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

03 TB-3 Short+Long notes
Samples: 1288 RAM: 80 MB **Level 2**

Single notes
Staccato short and medium
Portato short, medium, and long
Sustained normal and marcato

Matrix switches: Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
V1	stac.short	stac.medium	port. short	port.medium	port.long	sustained
V2	%	%	%	%	%	marcato

Matrix - LEVEL 2 B - Standard

11 TB-3 Perf-Legato Speed
Samples: 886 RAM: 55 MB **Level 2**

Interval performances
Legato slow, normal, and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal	fast

12 TB-3 Perf-Marcato Speed
Samples: 881 RAM: 55 MB **Level 2**

Interval performances
Marcato normal and fast
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
marcato	normal	fast

13 TB-3 Short notes
Samples: 1120 RAM: 70 MB **Level 2**

Single notes
Staccato short and medium
Portato short, medium, and long

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	stac.short	stac.medium	port.short	port.medium	port.long

14 TB-3 Long notes - All
Samples: 280 RAM: 17 MB **Level 2**

Single notes: Sustained normal and marcato

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
sustained	normal	marcato

15 TB-3 Dynamics - Small
Samples: 420 RAM: 26 MB Level 2

Dynamics
Medium crescendo and diminuendo, 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

16 TB-3 Dynamics - Large
Samples: 756 RAM: 47 MB Level 2

Dynamics
Medium and strong crescendo and diminuendo, 2, 3, 4, and 6 sec.
Crescendo-diminuendo, 4, 6, 8, and 10 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1
dyn.medium	2 sec.	3 sec.	4 sec.	6 sec.
dyn.strong	3 sec.	3 sec.	4 sec.	6 sec.
pfp	4 sec.	6 sec.	8 sec.	10 sec.
fp/sfz/sffz	fp	sfz	sffz	sffz

17 TB-3 Flatter
Samples: 84 RAM: 5 MB Level 2

Flutter tonguing
Normal, crescendo, and normal/crescendo with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal	crescendo	Cell XF

Matrix - LEVEL 2 C - Repetitions

31 TB-3 Perf-Repetitions - Combi
Samples: 1110 RAM: 69 MB Level 2

Repetition performances
Slow and fast legato, fast portato, slow and fast staccato

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	legato slow	legato fast	portato fast	staccato slow	staccato fast

32 TB-3 Perf-Repetitions - Speed
Samples: 840 RAM: 52 MB Level 2

Repetition performances
Slow and fast legato, fast portato, and slow staccato
Speed controller

Matrix switches: Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato slow	legato fast	portato fast	staccato slow

33 TB-3 Fast-Repetitions

Samples: 336 RAM: 21 MB Level 2

Fast repetitions: Staccato, 140–180 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	140	150	160	170	180

34 TB-3 Perf Upbeat Repetitions

Samples: 472 RAM: 29 MB Level 2

Repetition performances
1 and 2 upbeats, slow and fast

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
1 upbeat	slow	fast
2 upbeats	slow	fast

35 TB-3 Upbeats a1

Samples: 588 RAM: 36 MB Level 2

Repetitions: 1 upbeat, 80–140 BPM

Matrix switches: Horizontal: Keyswitches, C1–F#1

	C1	C#1	D1	D#1	E1	F1	F#1
speed/BPM	80	90	100	110	120	130	140

36 TB-3 Upbeats a2

Samples: 756 RAM: 47 MB Level 2

Repetitions: 2 upbeats, 80–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	80	90	100	110	120	130	140	160	180

37 TB-3 Upbeats a3

Samples: 756 RAM: 47 MB Level 2

Repetitions: 3 upbeats, 80–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

38 TB-3 Upbeats all

Samples: 2100 RAM: 131 MB Level 2

Repetitions: 1–3 upbeats, 80–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
1 upbeat	80	90	100	110	120	130	130	130	140
2 upbeats	80	90	100	110	120	130	140	160	180
3 upbeats	80	90	100	110	120	130	140	160	180

Matrix - LEVEL 2 D - Scale+Phrase

51 TB-3 Arpeggios-staccato - Major
Samples: 104 **RAM: 6 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM, C to B major
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

52 TB-3 Arpeggios-staccato - Major+
Samples: 104 **RAM: 6 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM, C to B major
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj. fast	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

53 TB-3 Arpeggios-staccato - Minor
Samples: 100 **RAM: 6 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM, C to B minor
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

54 TB-3 Arpeggios-staccato - Minor+
Samples: 100 **RAM: 6 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM, C to B minor
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min. fast	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

55 TB-3 Arpeggios-staccato - All
Samples: 256 **RAM: 16 MB** **Level 2**

Arpeggios, staccato, 16ths at 120 BPM, C to B major and minor, diminished
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
minor	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
diminished	%	%	%	%	%	%	%	%	%	%	%	%

56 TB-3 Arpeggios-staccato - All+
Samples: 256 **RAM: 16 MB** **Level 2**

Arpeggios, staccato, 16ths at 160 BPM, C to B major and minor, diminished
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
minor	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
diminished	%	%	%	%	%	%	%	%	%	%	%	%

Matrix - LEVEL 2 E - Keyswitch Vel

71 TB-3 Legato slow - cre5 — Samples: 75 RAM: 4 MB Level 2

Slow legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 TB-3 Legato fast - cre5 — Samples: 75 RAM: 4 MB Level 2

Fast legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

73 TB-3 Portato - cre9 — Samples: 135 RAM: 8 MB Level 2

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 TB-3 Staccato - cre9 — Samples: 135 RAM: 8 MB Level 2

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

75 TB-3 Combi - cre5 — Samples: 150 RAM: 9 MB Level 2

Slow and fast legato: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

76 TB-3 Combi - cre9 — Samples: 270 RAM: 16 MB Level 2

Portato and staccato: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

77 TB-3 Legato slow - dim5

Samples: 75 **RAM: 4 MB** **Level 2**

Slow legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

78 TB-3 Legato fast - dim5

Samples: 75 **RAM: 4 MB** **Level 2**

Fast legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

79 TB-3 Portato - dim9

Samples: 135 **RAM: 8 MB** **Level 2**

Portato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

80 TB-3 Staccato - dim9

Samples: 135 **RAM: 8 MB** **Level 2**

Staccato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

81 TB-3 Combi - dim5

Samples: 150 **RAM: 9 MB** **Level 2**

Slow and fast legato: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

82 TB-3 Combi - dim9

Samples: 270 **RAM: 16 MB** **Level 2**

Portato and staccato: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

TB-3 VSL Preset Level 1 **Samples: 2304 RAM: 144 MB** **Level 1**

L1 TB-3 Perf-Legato Speed
L1 TB-3 Articulation Combi
L1 TB-3 Perf-Repetitions Combi
Preset keyswitches: C6–D6

TB-3 VSL Preset Level 2 **Samples: 4483 RAM: 280 MB** **Level 2**

01 TB-3 Perf-Universal
02 TB-3 Perf-Trill Speed
L1 TB-3 Articulation Combi
31 TB-3 Perf-Repetitions - Combi
76 TB-3 Combi - cre9
Preset keyswitches: C6–E6

66 Trombones - a3 mute

Patches

01 SHORT + LONG NOTES — Range: C2–A#4

Single notes
Level 1: Staccato
Portato short
Sustained
Level 2: Portato medium

01 TB-3_mu_staccato — **Samples: 168** **RAM: 10 MB** **Level 1**

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
4 Alternations

02 TB-3_mu_portato_short — **Samples: 174** **RAM: 10 MB** **Level 1**

Portato, short
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
4 Alternations

03 TB-3_mu_portato_medium — **Samples: 90** **RAM: 5 MB** **Level 2**

Portato, medium
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

11 TB-3_mu_sus — **Samples: 90** **RAM: 5 MB** **Level 1**

Sustained
3 velocity layers: 0–55 pp; 56–108 mf; 109–127 f
Release samples

02 DYNAMICS — Range: C2–A#4

Dynamics
Level 1: Crescendo-diminuendo, 2 and 4 sec.
Fortepiano, sforzato
Level 2: Strong crescendo and diminuendo, 2, 3, 4, and 6 sec.
Crescendo-diminuendo, 3 and 6 sec.
Sforzatissimo

01 TB-3_mu_dyn-str_2s — **Samples: 30** **RAM: 1 MB** **Level 2**

Strong crescendo and diminuendo, 2 sec.
1 velocity layer
AB switch: crescendo/diminuendo

02 TB-3_mu_dyn-str_3s **Samples: 30** **RAM: 1 MB** **Level 2**

Strong crescendo and diminuendo, 3 sec.
1 velocity layer
AB switch: crescendo/diminuendo

03 TB-3_mu_dyn-str_4s **Samples: 30** **RAM: 1 MB** **Level 2**

Strong crescendo and diminuendo, 4 sec.
1 velocity layer
AB switch: crescendo/diminuendo

04 TB-3_mu_dyn-str_6s **Samples: 30** **RAM: 1 MB** **Level 2**

Strong crescendo and diminuendo, 6 sec.
1 velocity layer
AB switch: crescendo/diminuendo

21 TB-3_mu_pfp_2s **Samples: 30** **RAM: 1 MB** **Level 1**

Crescendo-diminuendo, 2 sec.
2 velocity layers: 0–88 p; 89–127 f

22 TB-3_mu_pfp_3s **Samples: 30** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 3 sec.
2 velocity layers: 0–88 p; 89–127 f

23 TB-3_mu_pfp_4s **Samples: 30** **RAM: 1 MB** **Level 1**

Crescendo-diminuendo, 4 sec.
2 velocity layers: 0–88 p; 89–127 f

24 TB-3_mu_pfp_6s **Samples: 30** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 6 sec.
2 velocity layers: 0–88 p; 89–127 f

31 TB-3_mu_fp **Samples: 28** **RAM: 1 MB** **Level 1**

Fortepiano
1 velocity layer
2 Alternations

32 TB-3_mu_sfz **Samples: 29** **RAM: 1 MB** **Level 1**

Sforzato
1 velocity layer
2 Alternations

33 TB-3_mu_sffz **Samples: 28** **RAM: 1 MB** **Level 2**

Sforzatissimo
1 velocity layer
2 Alternations

03 FLATTER

Range: C2–A#4

Level 1: Flutter tonguing normal and crescendo

01 TB-3_mu_flatter

Samples: 58 **RAM: 3 MB** **Level 1**

Flutter tonguing
1 velocity layer: 0–127 f
Release samples

02 TB-3_mu_flatter_cre

Samples: 29 **RAM: 1 MB** **Level 1**

Flutter tonguing, crescendo
1 velocity layer

10 PERF INTERVAL

Range: C2–G#4

Interval performances
Level 2: Legato
Marcato

01 TB-3_mu_perf-legato

Samples: 642 **RAM: 40 MB** **Level 2**

Legato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 TB-3_mu_perf-marcato

Samples: 642 **RAM: 40 MB** **Level 2**

Marcato
Monophonic
2 velocity layers: 0–88 mp; 89–127 f
Release samples

11 PERF REPETITION

Range: C2–A#4

Repetition performances
Level 2: Legato
Portato
Staccato slow and fast
Normal and dynamics

01 TB-3_mu_perf-rep_leg

Samples: 150 **RAM: 9 MB** **Level 2**

Legato
2 velocity layers: 0–88 p; 89–127 f

02 TB-3_mu_perf-rep_por

Samples: 270 **RAM: 16 MB** **Level 2**

Portato
2 velocity layers: 0–88 p; 89–127 f

03 TB-3_mu_perf-rep_sta-sl **Samples: 270** **RAM: 16 MB** **Level 2**

Staccato, slow
2 velocity layers: 0–88 p; 89–127 f

04 TB-3_mu_perf-rep_sta-fa **Samples: 270** **RAM: 16 MB** **Level 2**

Staccato, fast
2 velocity layers: 0–88 p; 89–127 f

21 TB-3_mu_perf-rep_dyn5_leg **Samples: 150** **RAM: 9 MB** **Level 2**

Legato dynamics, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

22 TB-3_mu_perf-rep_dyn9_por **Samples: 270** **RAM: 16 MB** **Level 2**

Portato dynamics, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

23 TB-3_mu_perf-rep_dyn9_sta-sl **Samples: 270** **RAM: 16 MB** **Level 2**

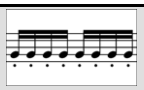
Staccato dynamics, slow, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

24 TB-3_mu_perf-rep_dyn9_sta-fa **Samples: 270** **RAM: 16 MB** **Level 2**

Staccato dynamics, fast, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

12 FAST REPETITION

Range: C2–A#4



Fast repetitions
Level 2: Staccato, 9 repetitions, 140 to 190 BPM

01 TB-3_mu_fast-rep_140 (150/160/170/180/190) **Samples: 60 RAM: 3 MB**
Level 2

Staccato repetitions, 140–190 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

13 UPBEAT REPETITION

Repetitions
Level 2: 1 upbeat, 90–150 BPM
2 and 3 upbeats, 90–140, 160, and 180 BPM

13 UPBEAT REPETITION/A Single Upbeat Range: C2–A#4

01 TB-3_mu_UB-a1_90 (100/110/120/130/140/150) **Samples: 30** **RAM: 1 MB** **Level 2**
1 upbeat, 90–150 BPM
2 velocity layers: 0–88 p; 89–127 f

13 UPBEAT REPETITION/B Double Upbeats Range: C2–A#4

01 TB-3_mu_UB-a2_90 (100/110/120/130/140/160/180) **Samples: 30** **RAM: 1 MB** **Level 2**
2 upbeats, 90–140, 160, and 180 BPM
2 velocity layers: 0–88 p; 89–127 f

13 UPBEAT REPETITION/C Triple Upbeats Range: C2–A#4

01 TB-3_mu_UB-a3_90 (100/110/120/130/140/160/180) **Samples: 30** **RAM: 1 MB** **Level 2**
3 upbeats, 90–140, 160, and 180 BPM
2 velocity layers: 0–88 p; 89–127 f

98 RESOURCES

Resources
Level 2: Isolated dynamics repetitions: Legato, portato, and staccato
Single layer long notes

98 RESOURCES/01 Perf Rep dyn Range: C2–A#4

01 TB-3_mu-muB_rep_cre5_leg-1 (2/3/4/5) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, crescendo, 1st to 5th note
1 velocity layer

01 TB-3_mu-muB_rep_dim5_leg-1 (2/3/4/5) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Legato, diminuendo, 1st to 5th note
1 velocity layer

02 TB-3_mu-muB_rep_cre9_por-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, crescendo, 1st to 9th note
1 velocity layer

02 TB-3_mu-muB_rep_dim9_por-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**
Extracted repetitions: Portato, diminuendo, 1st to 9th note
1 velocity layer

03 TB-3_mu-muB_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**

Extracted repetitions: Staccato, crescendo, 1st to 9th note
1 velocity layer

03 TB-3_mu-muB_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) **Samples: 15** **RAM: 1 MB** **Level 2**

Extracted repetitions: Staccato, diminuendo, 1st to 9th note
1 velocity layer

98 RESOURCES/02 Long Notes - Single Layer Range: C2–A#4

01 TB-3_mu_sus-p **Samples: 30** **RAM: 1 MB** **Level 2**

Sustained, piano
1 velocity layer
Release samples

02 TB-3_mu_sus-mf **Samples: 30** **RAM: 1 MB** **Level 2**

Sustained, mezzoforte
1 velocity layer
Release samples

03 TB-3_mu_sus-f **Samples: 30** **RAM: 1 MB** **Level 2**

Sustained, forte
1 velocity layer
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 TB-3_mu Articulation Combi — Samples: 636 RAM: 39 MB Level 1

Single note articulations
Staccato, portato short, sustained, crescendo-diminuendo 2 and 4 sec., fortepiano and sforzato, flutter tonguing normal and crescendo

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	stac	sus	pfp 2s.	fp	flutter
V2	port. short	sus	pfp 4s.	sfz	flutter cres.

Matrix - LEVEL 2 A - Advanced

01 TB-3_mu Perf-Universal — Samples: 1254 RAM: 78 MB Level 2

Interval performances
Legato and marcato
Monophonic

Matrix switches: Vertical: Modwheel, 2 zones

	H1
V1	legato
V2	marcato

02 TB-3_mu Short+Long notes — Samples: 522 RAM: 32 MB Level 2

Single notes
Staccato, portato short and medium,
sustained

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	staccato	port. short	port.med.	sustained

Matrix - LEVEL 2 B - Standard

11 TB-3_mu Dynamics - Small — Samples: 175 RAM: 10 MB Level 2

Dynamics
Strong crescendo and diminuendo, 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn. strong	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

12 TB-3_mu Dynamics - Large — Samples: 325 RAM: 20 MB Level 2

Dynamics
Strong crescendo and diminuendo, 2, 3, 4, and 6 sec.
Crescendo-diminuendo, 2, 3, 4, and 6 sec.
Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1
dyn. strong	2 sec.	3 sec.	4 sec.	6 sec.
pfp	2 sec.	3 sec.	4 sec.	6sec.
fp/sfz/sffz	fp	sfz	sffz	sffz

13 TB-3_mu Flatter — Samples: 87 RAM: 5 MB Level 2

Flutter tonguing
Normal, crescendo, and normal/crescendo with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal	crescendo	Cell XF

Matrix - LEVEL 2 C - Repetitions

31 TB-3_mu Perf-Repetitions - Combi — Samples: 960 RAM: 60 MB Level 2

Repetition performances
Legato, portato, and staccato slow and fast

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	legato	portato	staccato slow	staccato fast

32 TB-3_mu Perf-Repetitions - Speed — Samples: 960 RAM: 60 MB Level 2

Repetition performances
Legato, portato, and staccato slow and fast
Speed controller

Matrix switches: Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato	portato	staccato slow	staccato fast

33 TB-3_mu Fast-Repetitions — Samples: 210 RAM: 13 MB Level 2

Fast repetitions: Staccato, 140–190 BPM

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	140	150	160	170	180	190

34 TB-3_mu Upbeats a1 — Samples: 210 RAM: 13 MB Level 2

Repetitions: 1 upbeat, 90–150 BPM

Matrix switches: Horizontal: Keyswitches, C1–F#1

	C1	C#1	D1	D#1	E1	F1	F#1
speed/BPM	90	100	110	120	130	140	150

35 TB-3_mu Upbeats a2 — Samples: 240 RAM: 15 MB Level 2

Repetitions: 2 upbeats, 90–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G1

	C1	C#1	D1	D#1	E1	F1	F#1	G1
speed/BPM	90	100	110	120	130	140	160	180

36 TB-3_mu Upbeats a3 — Samples: 224 RAM: 14 MB Level 2

Repetitions: 3 upbeats, 90–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G1

	C1	C#1	D1	D#1	E1	F1	F#1	G1
speed/BPM	90	100	110	120	130	140	160	180

37 TB-3_mu Upbeats all — Samples: 690 RAM: 43 MB Level 2

Repetitions: 1–3 upbeats, 90–140, 160, and 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–G1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1
1 upbeat	90	100	110	120	130	140	150	150
2 upbeats	90	100	110	120	130	140	160	180
3 upbeats	90	100	110	120	130	140	160	180

Matrix - LEVEL 2 E - Keyswitch Vel

71 TB-3_mu Legato - cre5 — Samples: 75 RAM: 4 MB Level 2

Legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 TB-3_mu Portato - cre9 — Samples: 135 RAM: 8 MB Level 2

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

73 TB-3_mu Staccato - cre9 — Samples: 135 RAM: 8 MB Level 2

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 TB-3_mu Combi - cre9

Samples: 270 **RAM: 16 MB** **Level 2**

Portato and staccato: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

75 TB-3_mu Legato - dim5

Samples: 75 **RAM: 4 MB** **Level 2**

Legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

76 TB-3_mu Portato - dim9

Samples: 135 **RAM: 8 MB** **Level 2**

Portato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

77 TB-3_mu Staccato - dim9

Samples: 135 **RAM: 8 MB** **Level 2**

Staccato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

78 TB-3_mu Combi - dim9

Samples: 270 **RAM: 16 MB** **Level 2**

Portato and staccato: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

TB-3_mu VSL Preset Level 1 **Samples: 636** **RAM: 39 MB** **Level 1**

L1 TB-3_mu Articulation Combi

TB-3_mu VSL Preset Level 2 **Samples: 3090** **RAM: 193 MB** **Level 2**

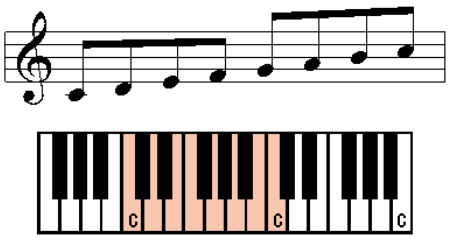
01 TB-3_mu Perf-Universal
01 TB-3_mu Perf-Universal
L1 TB-3_mu Articulation Combi
31 TB-3_mu Perf-Repetitions - Combi
74 TB-3_mu Combi - cre9
Preset keyswitches: C6–E6

Appendix 1 – Scale and Arpeggio Ranges

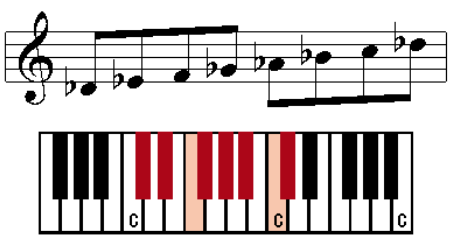
In the following, you will find notations and keyboard layout graphics for major and minor scale runs and arpeggios, as well as a list of playing ranges for the individual Patches of each instrument.

Scale runs - major

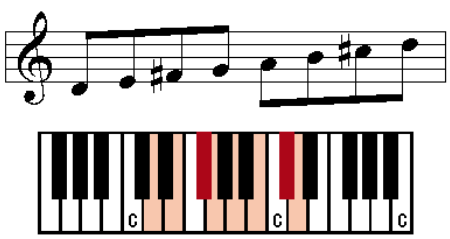
C major



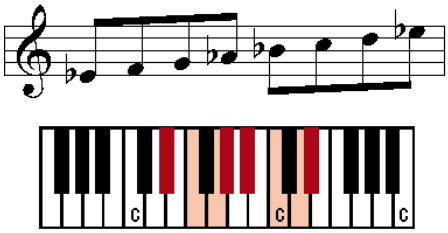
C#/Db major



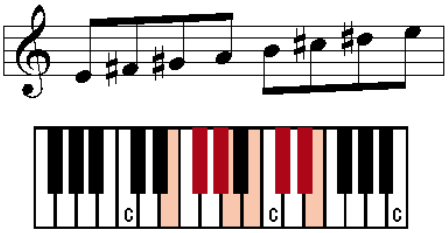
D major



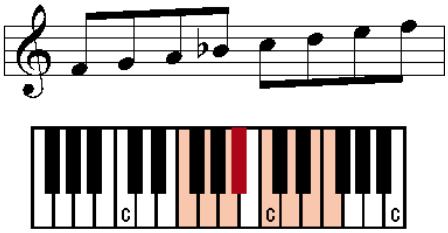
D#/Eb major



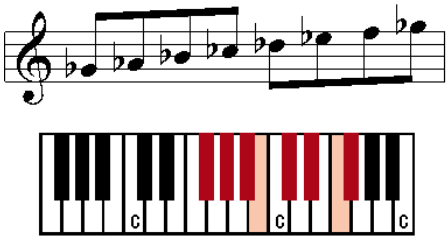
E major



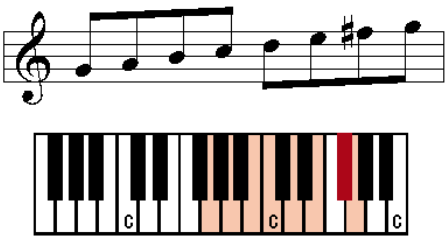
F major



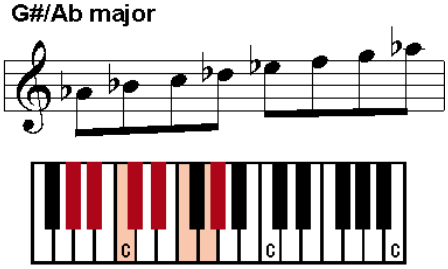
F#/Gb major



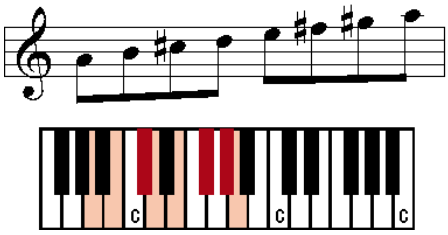
G major



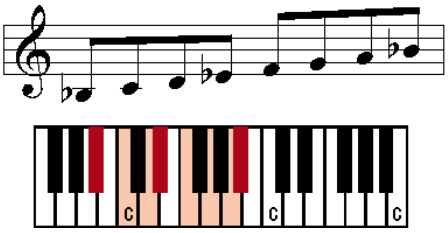
G#/Ab major



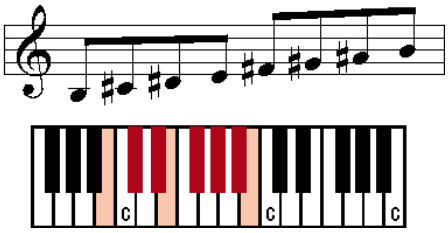
A major



A#/Bb major

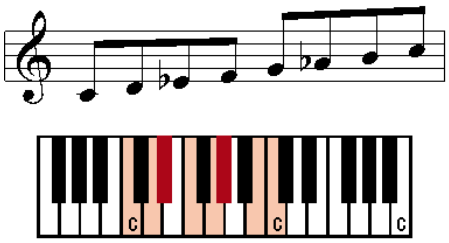


B major

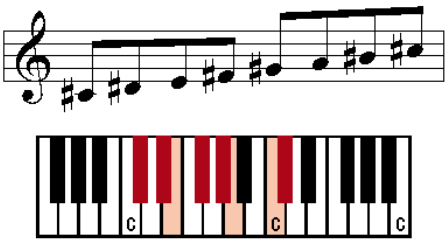


Scale runs - minor

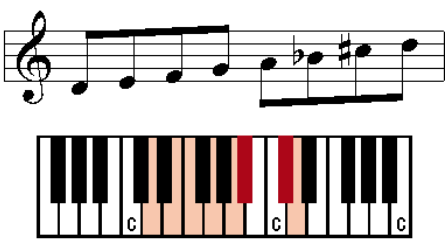
C minor



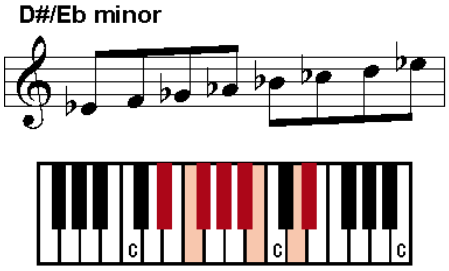
C#/Db minor



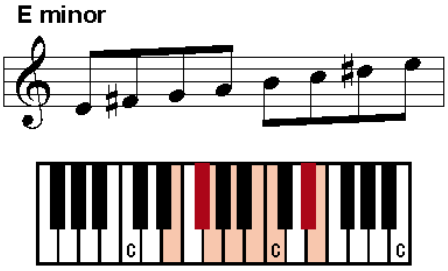
D minor



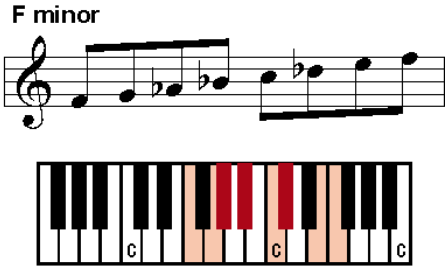
D#/Eb minor



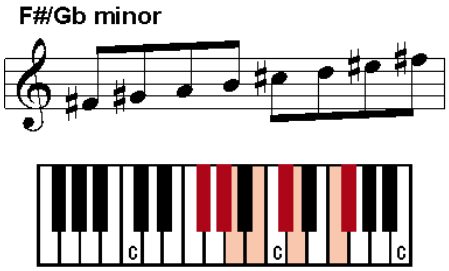
E minor



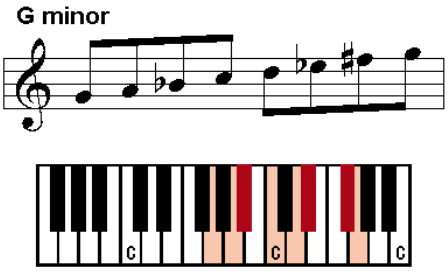
F minor



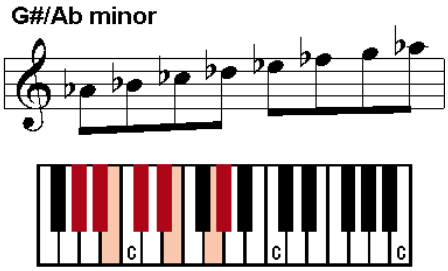
F#/Gb minor



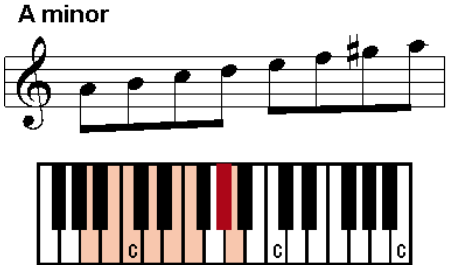
G minor



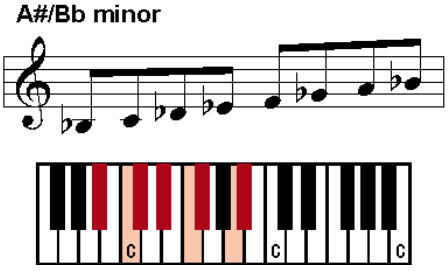
G#/Ab minor



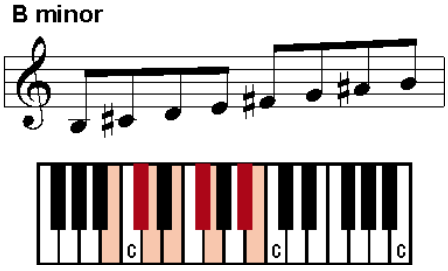
A minor



A#/Bb minor

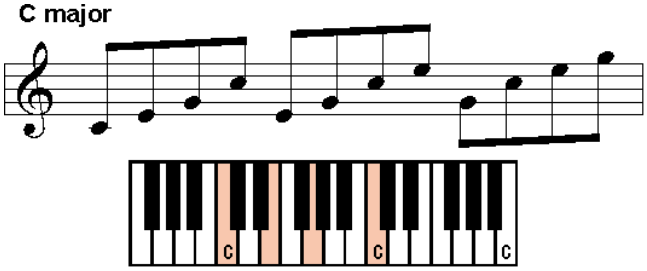


B minor

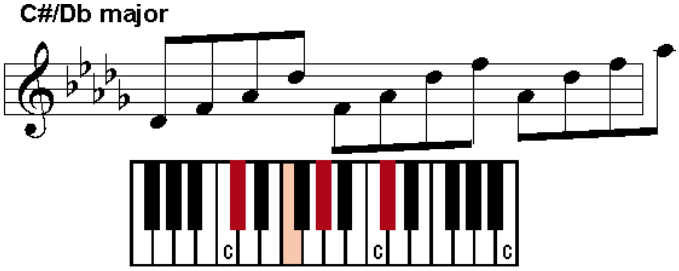


Arpeggios – major

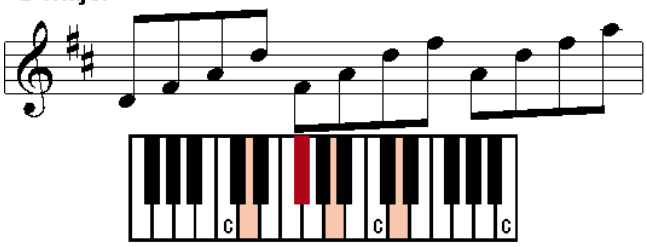
C major



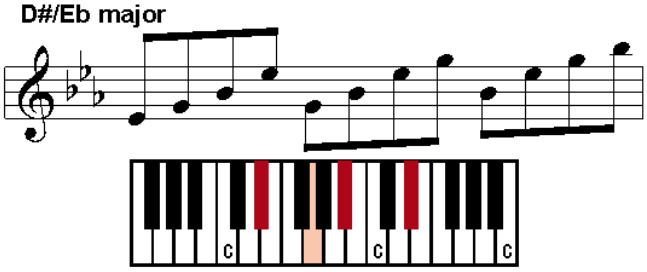
C#/Db major



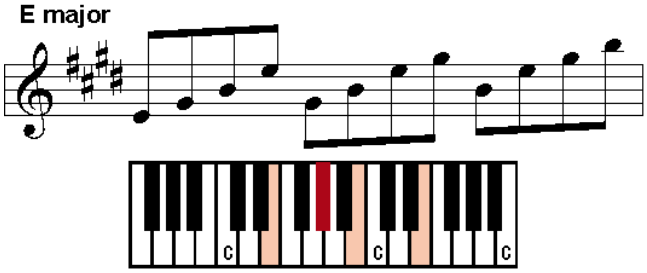
D major



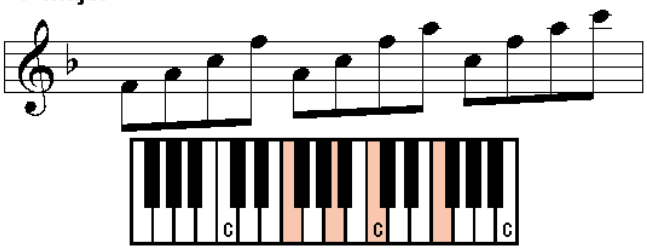
D#/Eb major



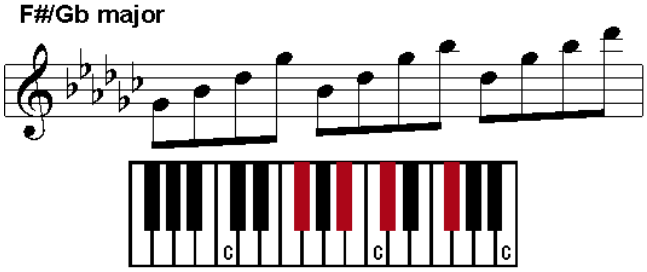
E major



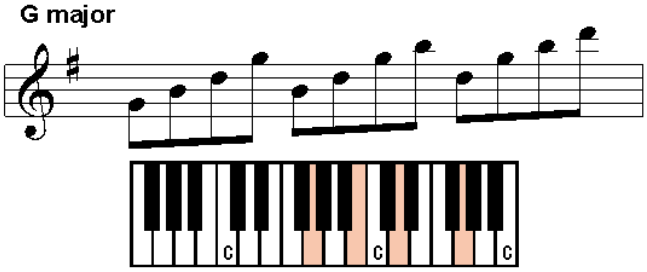
F major



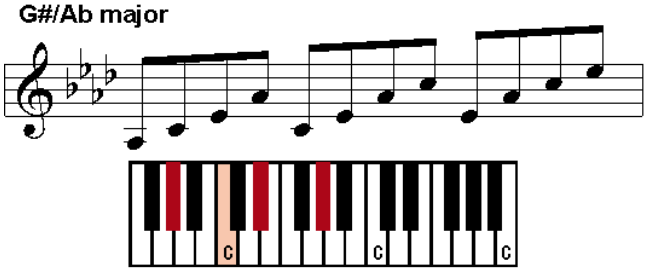
F#/Gb major



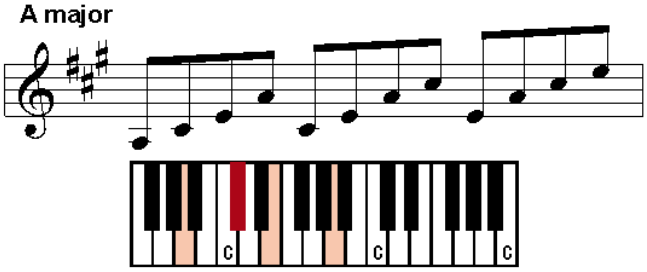
G major



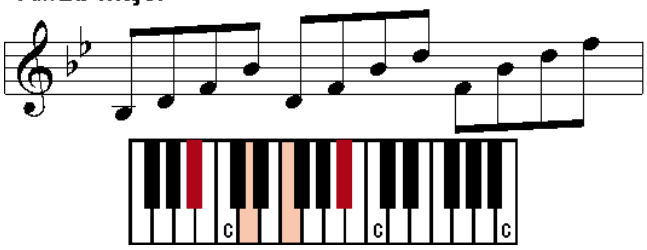
G#/Ab major



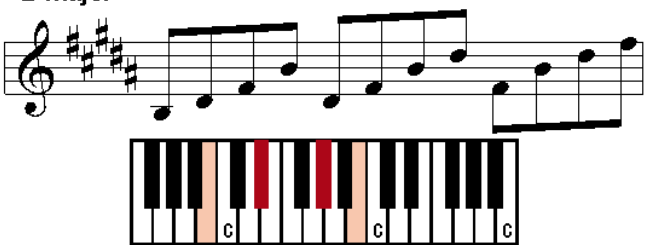
A major



A#/Bb major

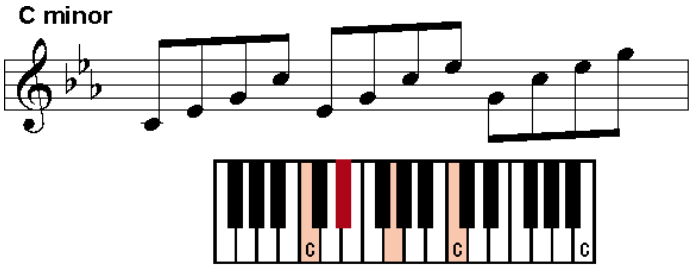


B major

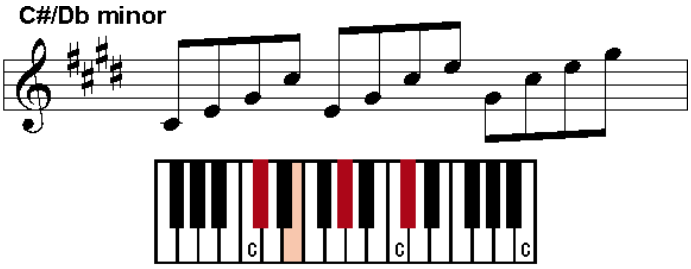


Arpeggios – minor

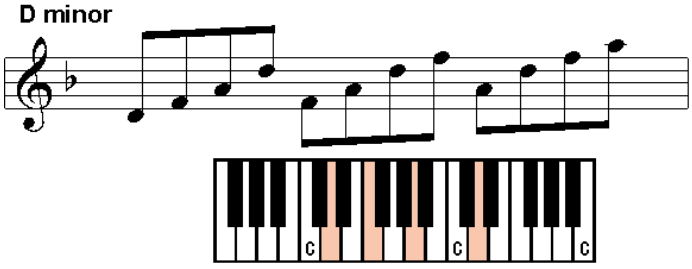
C minor



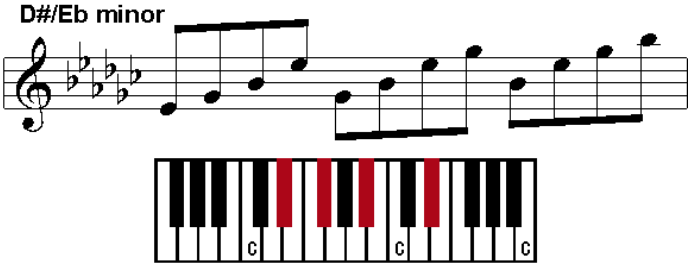
C#/Db minor



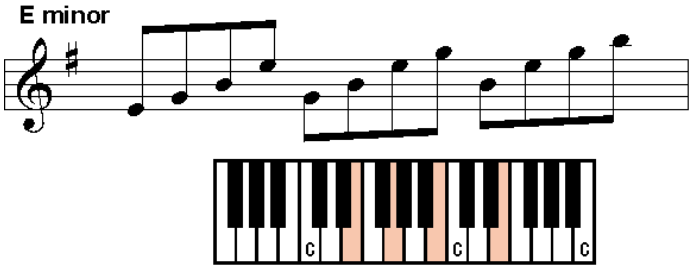
D minor



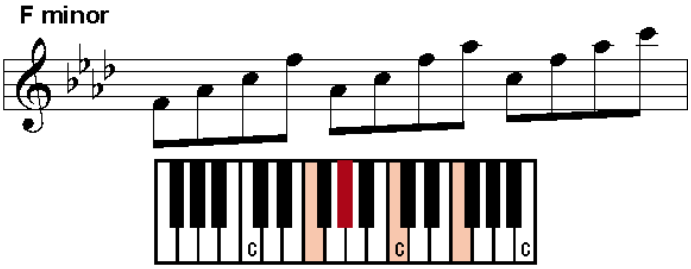
D#/Eb minor



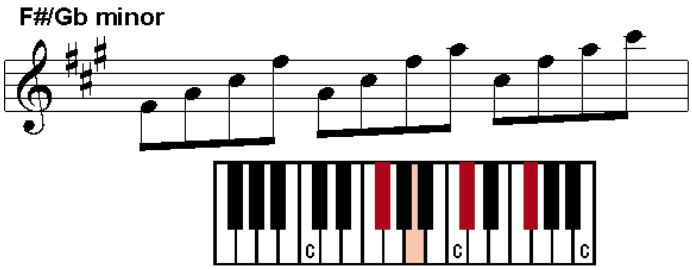
E minor



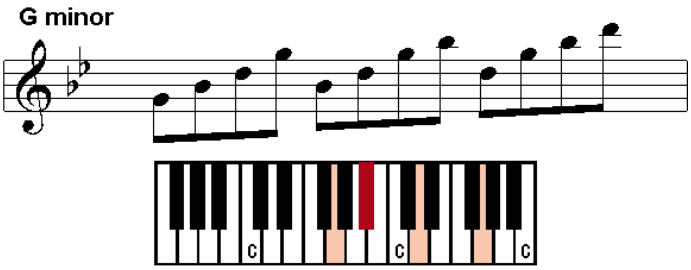
F minor



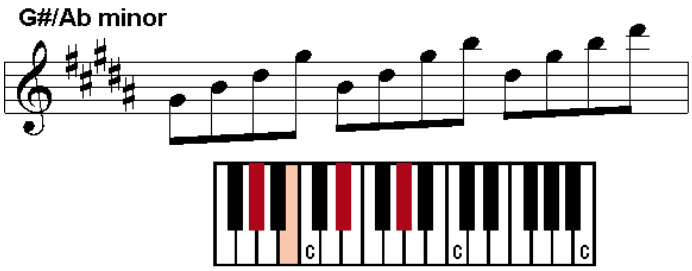
F#/Gb minor



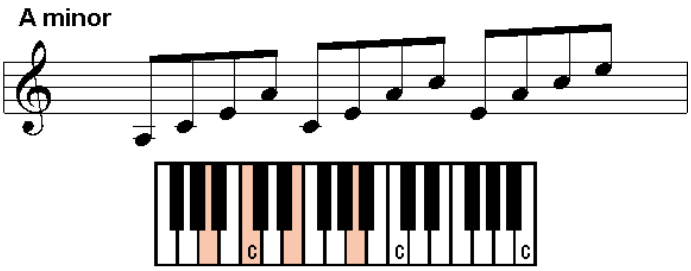
G minor



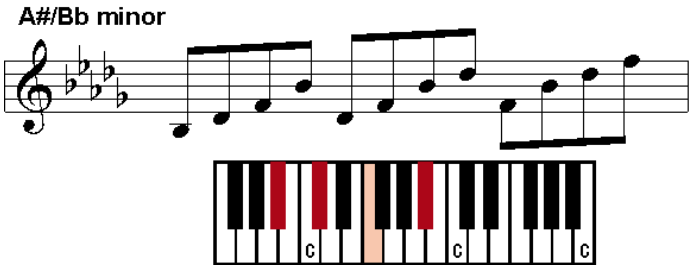
G#/Ab minor



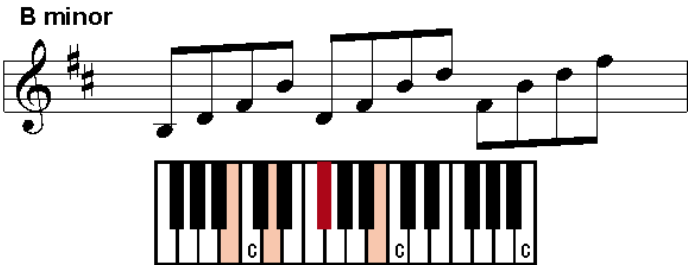
A minor



A#/Bb minor



B minor



Trumpet in C scale and arpeggio ranges

Octave runs

Legato major	play range
01 TrC_run-leg_C-ma	A3–C6
02 TrC_run-leg_C#-ma	G#3–A#5
03 TrC_run-leg_D-ma	A3–B5
04 TrC_run-leg_D#-ma	G#3–A#5
05 TrC_run-leg_E-ma	A3–B5
06 TrC_run-leg_F-ma	A3–A#5
07 TrC_run-leg_F#-ma	A#3–B5
08 TrC_run-leg_G-ma	A3–B5
09 TrC_run-leg_G#-ma	A#3–C6
10 TrC_run-leg_A-ma	G#3–B5
11 TrC_run-leg_A#-ma	A3–C6
12 TrC_run-leg_B-ma	G#3–B5

Arpeggios

Staccato major	play range
01 TrC_arp-sta_C-ma	G3–C6
02 TrC_arp-sta_C#-ma	F3–C#6
03 TrC_arp-sta_D-ma	F#3–D6
04 TrC_arp-sta_D#-ma	G3–A#5
05 TrC_arp-sta_E-ma	G#3–B5
06 TrC_arp-sta_F-ma	F3–C6
07 TrC_arp-sta_F#-ma	F#3–C#6
08 TrC_arp-sta_G-ma	G3–B5
09 TrC_arp-sta_G#-ma	G#3–C6
10 TrC_arp-sta_A-ma	A3–C#6
11 TrC_arp-sta_A#-ma	A#3–D6
12 TrC_arp-sta_B-ma	F#3–B5

Staccato minor	play range
01 TrC_arp-sta_C-mi	G3–C6
02 TrC_arp-sta_C#-mi	G#3–C#6
03 TrC_arp-sta_D-mi	A3–D6
04 TrC_arp-sta_D#-mi	F#3–A#5
05 TrC_arp-sta_E-mi	G3–B5
06 TrC_arp-sta_F-mi	F3–C6
07 TrC_arp-sta_F#-mi	F#3–C#6
08 TrC_arp-sta_G-mi	G3–A#5
09 TrC_arp-sta_G#-mi	G#3–B5
10 TrC_arp-sta_A-mi	A3–C6
11 TrC_arp-sta_A#-mi	A#3–C#6
12 TrC_arp-sta_B-mi	F#3–B5

Staccato major fast	play range
01 TrC_arp-sta+_C-ma	G3–C6
02 TrC_arp-sta+_C#-ma	F3–C#6
03 TrC_arp-sta+_D-ma	F#3–D6
04 TrC_arp-sta+_D#-ma	G3–A#5
05 TrC_arp-sta+_E-ma	G#3–B5
06 TrC_arp-sta+_F-ma	F3–C6
07 TrC_arp-sta+_F#-ma	F#3–C#6
08 TrC_arp-sta+_G-ma	G3–B5
09 TrC_arp-sta+_G#-ma	G#3–C6
10 TrC_arp-sta+_A-ma	A3–C#6
11 TrC_arp-sta+_A#-ma	A#3–D6
12 TrC_arp-sta+_B-ma	F#3–B5

Staccato minor fast	play range
01 TrC_arp-sta_C-mi+	G3–C6
02 TrC_arp-sta_C#-mi+	G#3–C#6
03 TrC_arp-sta_D-mi+	A3–D6
04 TrC_arp-sta_D#-mi+	F#3–A#5
05 TrC_arp-sta_E-mi+	G3–B5
06 TrC_arp-sta_F-mi+	F3–C6
07 TrC_arp-sta_F#-mi+	F#3–C#6
08 TrC_arp-sta_G-mi+	G3–A#5
09 TrC_arp-sta_G#-mi+	G#3–B5
10 TrC_arp-sta_A-mi+	A3–C6
11 TrC_arp-sta_A#-mi+	A#3–C#6
12 TrC_arp-sta_B-mi+	F#3–B5

Tenor trombone arpeggio ranges

Arpeggios

Staccato major	play range
01 TTB_arp-sta_C-ma	E2–G4
02 TTB_arp-sta_C#-ma	F2–G#4
03 TTB_arp-sta_D-ma	F#2–A4
04 TTB_arp-sta_D#-ma	D#2–D#4
05 TTB_arp-sta_E-ma	E2–E4
06 TTB_arp-sta_F-ma	F2–F4
07 TTB_arp-sta_F#-ma	F#2–F#4
08 TTB_arp-sta_G-ma	G2–G4
09 TTB_arp-sta_G#-ma	G#2–G#4
10 TTB_arp-sta_A-ma	E2–A4
11 TTB_arp-sta_A#-ma	F2–A#4
12 TTB_arp-sta_B-ma	D#2–F#4

Staccato minor	play range
01 TTB_arp-sta_C-mi	G2–G4
02 TTB_arp-sta_C#-mi	E2–E4
03 TTB_arp-sta_D-mi	F2–F4
04 TTB_arp-sta_D#-mi	D#2–D#4
05 TTB_arp-sta_E-mi	E2–E4
06 TTB_arp-sta_F-mi	F2–F4
07 TTB_arp-sta_F#-mi	F#2–F#4
08 TTB_arp-sta_G-mi	G2–A#4
09 TTB_arp-sta_G#-mi	G#2–B4
10 TTB_arp-sta_A-mi	E2–E4
11 TTB_arp-sta_A#-mi	F2–F4
12 TTB_arp-sta_B-mi	F#2–F#4

Staccato major fast	play range
01 TTB_arp-sta+_C-ma	E2–G4
02 TTB_arp-sta+_C#-ma	F2–G#4
03 TTB_arp-sta+_D-ma	F#2–A4
04 TTB_arp-sta+_D#-ma	D#2–D#4
05 TTB_arp-sta+_E-ma	E2–E4
06 TTB_arp-sta+_F-ma	F2–F4
07 TTB_arp-sta+_F#-ma	F#2–F#4
08 TTB_arp-sta+_G-ma	G2–G4
09 TTB_arp-sta+_G#-ma	G#2–G#4
10 TTB_arp-sta+_A-ma	E2–A4
11 TTB_arp-sta+_A#-ma	F2–A#4
12 TTB_arp-sta+_B-ma	D#2–F#4

Staccato minor fast	play range
01 TTB_arp-sta_C-mi+	G2–G4
02 TTB_arp-sta_C#-mi+	E2–E4
03 TTB_arp-sta_D-mi+	F2–F4
04 TTB_arp-sta_D#-mi+	D#2–D#4
05 TTB_arp-sta_E-mi+	E2–E4
06 TTB_arp-sta_F-mi+	F2–F4
07 TTB_arp-sta_F#-mi+	F#2–F#4
08 TTB_arp-sta_G-mi+	G2–A#4
09 TTB_arp-sta_G#-mi+	G#2–B4
10 TTB_arp-sta_A-mi+	E2–E4
11 TTB_arp-sta_A#-mi+	F2–F4
12 TTB_arp-sta_B-mi+	F#2–F#4

Trumpet ensemble scale and arpeggio ranges

Octave runs

Legato major	play range
01 Tr-3_run-leg_C-ma	G3–C6
02 Tr-3_run-leg_C#-ma	G#3–A#5
03 Tr-3_run-leg_D-ma	A3–B5
04 Tr-3_run-leg_D#-ma	A#3–A#5
05 Tr-3_run-leg_E-ma	B3–B5
06 Tr-3_run-leg_F-ma	G3–C6
07 Tr-3_run-leg_F#-ma	G#3–C#6
08 Tr-3_run-leg_G-ma	G3–B5
09 Tr-3_run-leg_G#-ma	G#3–C6
10 Tr-3_run-leg_A-ma	G#3–B5
11 Tr-3_run-leg_A#-ma	A3–C6
12 Tr-3_run-leg_B-ma	F#3–B5

Legato minor	play range
01 Tr-3_run-leg_C-mi	C4–C6
02 Tr-3_run-leg_C#-mi	A3–A5
03 Tr-3_run-leg_D-mi	A#3–A#5
04 Tr-3_run-leg_D#-mi	A#3–A#5
05 Tr-3_run-leg_E-mi	B3–B5
06 Tr-3_run-leg_F-mi	G#3–C6
07 Tr-3_run-leg_F#-mi	A3–C#6
08 Tr-3_run-leg_G-mi	G3–A#5
09 Tr-3_run-leg_G#-mi	G#3–B5
10 Tr-3_run-leg_A-mi	G#3–B5
11 Tr-3_run-leg_A#-mi	A3–C6
12 Tr-3_run-leg_B-mi	B3–B5

Arpeggios

Staccato major	play range
01 Tr-3_arp-sta_C-ma	C4–C6
02 Tr-3_arp-sta_C#-ma	G#3–G#5
03 Tr-3_arp-sta_D-ma	A3–A5
04 Tr-3_arp-sta_D#-ma	A#3–A#5
05 Tr-3_arp-sta_E-ma	B3–B5
06 Tr-3_arp-sta_F-ma	A3–C6
07 Tr-3_arp-sta_F#-ma	A#3–C#6
08 Tr-3_arp-sta_G-ma	B3–B5
09 Tr-3_arp-sta_G#-ma	C4–C6
10 Tr-3_arp-sta_A-ma	A3–A5
11 Tr-3_arp-sta_A#-ma	A#3–A#5
12 Tr-3_arp-sta_B-ma	B3–B5

Staccato minor	play range
01 Tr-3_arp-sta_C-mi	C4–C6
02 Tr-3_arp-sta_C#-mi	G#3–G#5
03 Tr-3_arp-sta_D-mi	A3–A5
04 Tr-3_arp-sta_D#-mi	A#3–A#5
05 Tr-3_arp-sta_E-mi	B3–B5
06 Tr-3_arp-sta_F-mi	G#3–C6
07 Tr-3_arp-sta_F#-mi	A3–C#6
08 Tr-3_arp-sta_G-mi	A#3–A#5
09 Tr-3_arp-sta_G#-mi	B3–B5
10 Tr-3_arp-sta_A-mi	A3–A5
11 Tr-3_arp-sta_A#-mi	A#3–A#5
12 Tr-3_arp-sta_B-mi	B3–B5

Staccato major fast	play range
01 Tr-3_arp-sta+_C-ma	C4–C6
02 Tr-3_arp-sta+_C#-ma	G#3–G#5
03 Tr-3_arp-sta+_D-ma	A3–A5
04 Tr-3_arp-sta+_D#-ma	A#3–A#5
05 Tr-3_arp-sta+_E-ma	B3–B5
06 Tr-3_arp-sta+_F-ma	A3–C6
07 Tr-3_arp-sta+_F#-ma	A#3–C#6
08 Tr-3_arp-sta+_G-ma	B3–B5
09 Tr-3_arp-sta+_G#-ma	C4–C6
10 Tr-3_arp-sta+_A-ma	A3–A5
11 Tr-3_arp-sta+_A#-ma	A#3–A#5
12 Tr-3_arp-sta+_B-ma	B3–B5

Staccato minor fast	play range
01 Tr-3_arp-sta_C-mi+	C4–C6
02 Tr-3_arp-sta_C#-mi+	G#3–G#5
03 Tr-3_arp-sta_D-mi+	A3–A5
04 Tr-3_arp-sta_D#-mi+	A#3–A#5
05 Tr-3_arp-sta_E-mi+	B3–B5
06 Tr-3_arp-sta_F-mi+	G#3–C6
07 Tr-3_arp-sta_F#-mi+	A3–C#6
08 Tr-3_arp-sta_G-mi+	A#3–A#5
09 Tr-3_arp-sta_G#-mi+	B3–B5
10 Tr-3_arp-sta_A-mi+	A3–A5
11 Tr-3_arp-sta_A#-mi+	A#3–A#5
12 Tr-3_arp-sta_B-mi+	B3–B5

Horn ensemble arpeggio ranges

Arpeggios

Staccato major	play range
01 HO-4_arp-sta_C-ma	C3–C5
02 HO-4_arp-sta_C#-ma	C#3–C#5
03 HO-4_arp-sta_D-ma	D3–D5
04 HO-4_arp-sta_D#-ma	A#2–D#5
05 HO-4_arp-sta_E-ma	B2–E5
06 HO-4_arp-sta_F-ma	A2–C5
07 HO-4_arp-sta_F#-ma	A#2–C#5
08 HO-4_arp-sta_G-ma	B2–D5
09 HO-4_arp-sta_G#-ma	C3–D#5
10 HO-4_arp-sta_A-ma	A2–C#5
11 HO-4_arp-sta_A#-ma	A#2–D5
12 HO-4_arp-sta_B-ma	B2–B4

Staccato major fast	play range
01 HO-4_arp-sta+_C-ma	C3–C5
02 HO-4_arp-sta+_C#-ma	C#3–C#5
03 HO-4_arp-sta+_D-ma	D3–D5
04 HO-4_arp-sta+_D#-ma	A#2–D#5
05 HO-4_arp-sta+_E-ma	B2–E5
06 HO-4_arp-sta+_F-ma	A2–C5
07 HO-4_arp-sta+_F#-ma	A#2–C#5
08 HO-4_arp-sta+_G-ma	B2–D5
09 HO-4_arp-sta+_G#-ma	C3–D#5
10 HO-4_arp-sta+_A-ma	A2–C#5
11 HO-4_arp-sta+_A#-ma	A#2–D5
12 HO-4_arp-sta+_B-ma	B2–B4

Staccato minor	play range
01 HO-4_arp-sta_C-mi	C3–C5
02 HO-4_arp-sta_C#-mi	C#3–C#5
03 HO-4_arp-sta_D-mi	D3–D5
04 HO-4_arp-sta_D#-mi	D#3–D#5
05 HO-4_arp-sta_E-mi	E3–E5
06 HO-4_arp-sta_F-mi	C3–F5
07 HO-4_arp-sta_F#-mi	C#3–F#5
08 HO-4_arp-sta_G-mi	A#2–D5
09 HO-4_arp-sta_G#-mi	B2–D#5
10 HO-4_arp-sta_A-mi	A2–C5
11 HO-4_arp-sta_A#-mi	A#2–C#5
12 HO-4_arp-sta_B-mi	B2–B4

Staccato minor fast	play range
01 HO-4_arp-sta_C-mi+	C3–C5
02 HO-4_arp-sta_C#-mi+	C#3–C#5
03 HO-4_arp-sta_D-mi+	D3–D5
04 HO-4_arp-sta_D#-mi+	D#3–D#5
05 HO-4_arp-sta_E-mi+	E3–E5
06 HO-4_arp-sta_F-mi+	C3–F5
07 HO-4_arp-sta_F#-mi+	C#3–F#5
08 HO-4_arp-sta_G-mi+	A#2–D5
09 HO-4_arp-sta_G#-mi+	B2–D#5
10 HO-4_arp-sta_A-mi+	A2–C5
11 HO-4_arp-sta_A#-mi+	A#2–C#5
12 HO-4_arp-sta_B-mi+	B2–B4

Trombone ensemble arpeggio ranges

Arpeggios

Staccato major	play range
01 TB-3_arp-sta_C-ma	E2–G4
02 TB-3_arp-sta_C#-ma	F2–F4
03 TB-3_arp-sta_D-ma	F#2–F#4
04 TB-3_arp-sta_D#-ma	D#2–G4
05 TB-3_arp-sta_E-ma	E2–G#4
06 TB-3_arp-sta_F-ma	F2–F4
07 TB-3_arp-sta_F#-ma	F#2–F#4
08 TB-3_arp-sta_G-ma	G2–G4
09 TB-3_arp-sta_G#-ma	G#2–G#4
10 TB-3_arp-sta_A-ma	E2–E4
11 TB-3_arp-sta_A#-ma	F2–F4
12 TB-3_arp-sta_B-ma	D#2–F#4

Staccato minor	play range
01 TB-3_arp-sta_C-mi	G2–G4
02 TB-3_arp-sta_C#-mi	G#2–G#4
03 TB-3_arp-sta_D-mi	F2–F4
04 TB-3_arp-sta_D#-mi	D#2–F#4
05 TB-3_arp-sta_E-mi	E2–G4
06 TB-3_arp-sta_F-mi	F2–F4
07 TB-3_arp-sta_F#-mi	F#2–F#4
08 TB-3_arp-sta_G-mi	G2–G4
09 TB-3_arp-sta_G#-mi	G#2–G#4
10 TB-3_arp-sta_A-mi	E2–E4
11 TB-3_arp-sta_A#-mi	F2–F4
12 TB-3_arp-sta_B-mi	F#2–F#4

Staccato major fast	play range
01 TB-3_arp-sta+_C-ma	E2–G4
02 TB-3_arp-sta+_C#-ma	F2–F4
03 TB-3_arp-sta+_D-ma	F#2–F#4
04 TB-3_arp-sta+_D#-ma	D#2–G4
05 TB-3_arp-sta+_E-ma	E2–G#4
06 TB-3_arp-sta+_F-ma	F2–F4
07 TB-3_arp-sta+_F#-ma	F#2–F#4
08 TB-3_arp-sta+_G-ma	G2–G4
09 TB-3_arp-sta+_G#-ma	G#2–G#4
10 TB-3_arp-sta+_A-ma	E2–E4
11 TB-3_arp-sta+_A#-ma	F2–F4
12 TB-3_arp-sta+_B-ma	D#2–F#4

Staccato minor fast	play range
01 TB-3_arp-sta_C-mi+	G2–G4
02 TB-3_arp-sta_C#-mi+	G#2–G#4
03 TB-3_arp-sta_D-mi+	F2–F4
04 TB-3_arp-sta_D#-mi+	D#2–F#4
05 TB-3_arp-sta_E-mi+	E2–G4
06 TB-3_arp-sta_F-mi+	F2–F4
07 TB-3_arp-sta_F#-mi+	F#2–F#4
08 TB-3_arp-sta_G-mi+	G2–G4
09 TB-3_arp-sta_G#-mi+	G#2–G#4
10 TB-3_arp-sta_A-mi+	E2–E4
11 TB-3_arp-sta_A#-mi+	F2–F4
12 TB-3_arp-sta_B-mi+	F#2–F#4

Appendix 2 – Vienna Instruments PRO II Matrices and Presets

Introduction

Update Installation – DVD Collections

All new VI PRO 2 Presets and Matrices are installed by installing the Library Updates, available in your User Area www.vsl.co.at/user.

Make sure that you have installed the latest version of Vienna Instruments PRO 2 and launch the Directory Manager.

WIN: “Start” button => “All programs” => “Vienna Instruments PRO”

OS X: “Applications” => “Vienna Instruments PRO”

Drag your downloaded Library Update .zip files on top of the sample content folder list in the Directory Manager; there is no need to unpack them first. It is also possible to take more than one .zip, as they will be installed one after the other. You will be guided through the update installation.

Attention: Please make sure to have all the Vienna Instruments Libraries you want to update loaded entirely in the Directory Manager – this will save you a few mouseclicks.

General Information

All Vienna Instruments PRO 2 Presets and Matrices have been saved with their cells disabled. This way you can load them quickly to analyze the various loaded Presets and Matrices.

If you activate “Force Enabled ON” in the Settings Menu, these Presets and Matrices will be loaded with enabled cells.

Single Instrument Matrices

There are special folders for Vienna Instruments PRO 2 in the Matrix list of all String and Wind Instruments:

"MATRIX – VI PRO 2"

These folders hold up to 17 new Matrices.

Matrices from 01–09 are "conventional" matrices, without the internal APP Sequencer activated.

Matrix 11 and higher contain sequence-based Matrices.

"01_basic" – The Allround Matrix

Available for all String and Wind Instruments.

A collection of the most essential articulations of the given instrument, with up to 40 different patches.

The Patches have been assembled from the Standard & Extended Library content of each Vienna Instruments Collection, but of course these Matrices are also available if you only have a license for the Standard Library of your Collection. The Patches that are not available will appear with a red background in the Matrix Cells and in the Slot Rack.

X-Axis Controller (horizontal): Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards
For Contra Bass Instruments (lowest notes below C2): C6 upwards

Use these Keyswitches to change between main categories of Patches like short notes, sustains and Performance Intervals.

Y-Axis Controller (vertical): CC1 (ModWheel)

Use the ModWheel to access different variations of a main category, e.g., sustains: with and without vibrato, with progressive vibrato.

Cell Configuration:

C Short Single Note samples (staccato, détaché, portato)
C# Sustains (with/without vibrato)
D Dynamic Single Notes (fortepiano, sforzando, sforzantissimo)
D# Performance Intervals (legato, trills, marcato, portamento)
E Performance Repetitions (legato, portato, staccato, spiccato, harsh)
F Fast Repetitions (in different tempos)
F# Tremolo, flutter tongue, recorded trills
G pizzicato, col legno (strings only)
G# Harmonics (strings only)
A Ponticello (strings only)

The configuration of individual Cells has been designed to be interchangeable throughout all instruments; e.g., a staccato will always be found in the same Cell position, irrespective of whether you are using a string or a wind instrument. This allows a quick change of instruments in your arrangement.

"02_leg-speed" (resp. "glissando-speed") – Tweakable Intervals

Available for all String and Woodwind Instruments, as well as for Brass Instruments with Glissando/Portamento Patches.

The new Enveloped Stretching tools in Vienna Instruments PRO 2 allow you to control the transition length of Performance Interval Patches in real-time.

Attention: Loading or "enabling" these matrices for the first time will cause some delay due to the necessary rendering time.

X-Axis Controller (horizontal): Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards
For Contrabass Instruments (lowest notes below C2): C6 upwards

Use these Keyswitches to change between different Performance Interval Patches (legato, portamento, glissando).

Y-Axis Controller (vertical): CC1 (ModWheel)

Use the ModWheel to access different transition lengths for the Performance Interval Patches.

CC1 =1 Slow transitions
CC1 = 64 Regular transitions
CC1 = 127 Fast transitions

"03_runs-leg_major" – Major runs on Speed

Available for all String and Wind Instruments with originally recorded Run Patches (Solo Violin, Orchestral Strings, selected Woodwinds, Trumpets)

Enveloped time-stretching lets you switch between different rendered speeds of the recorded runs in real-time.

The first cells of each matrix row show the tempo in BPM.

The originally played runs were performed as 32nd notes.

X-Axis Controller (horizontal): Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards
For Contrabass Instruments (lowest notes below C2): C6 upwards

Use these Keyswitches to change between different scales from C major to B major.

Y-Axis Controller (vertical): CC1 (ModWheel)

Use the ModWheel to trigger different speed variations, up to 7 tempo variations.

CC1 = 1 Slowest
CC1 = 127 Fastest

> **Hint:** For a more accurate selection of the intended playing speed it will make sense to change the Y-Axis Controller to Keyswitches.

"04_runs-leg_minor" – Minor runs on Speed

Like Matrix "03_runs-leg_major", but based on minor harmonic scales.

"05_runs-special" – Special Scale runs on Speed

Like Matrix "03_runs-leg_major", but based on chromatic and whole-tone scales.

"11 repetitions" – Repetitions without restrictions

Available for all String and Wind Instruments.

An APP Sequencer based Matrix with Host Tempo Sync activated by default.

X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab)

Y-Axis Controller (vertical): Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards
For Contrabass Instruments (lowest notes below C2): C6 upwards

The variations available in the Y-Axis are generally sequences assembled from one or 2 different articulations. For Strings, these are spiccato and staccato Performance Repetitions. For Wind Instruments, these are portato and staccato Performance Repetitions.

You can access up to 12 different pre-programmed patterns:

Slot 1	**"16th"**	16th notes based on one articulation.
Slot 2	**"16 2mc"**	16th notes based on two different articulations, accents are achieved by using the "longer" articulation.
Slot 3	**"16 mc"**	16th notes based on two different articulations, accents are achieved by using 2 "longer" articulations.
Slot 4	**"up 2"**	Sequence of one 8th note and two 16th notes.
Slot 5	**"up 1"**	Upbeats, sequence of one 8th note and one 16th note.
Slot 6	**"16 a3"**	Sequence of three 16th notes and one 16th rest.
Slot 7	**"triplet"**	8th triplets based on one articulation.
Slot 8	**"trip mc"**	8th triplets based on two different articulations, accents are achieved by using the "longer" articulation.
Slot 9	**"trip mc2"**	8th triplets based on two different articulations, every quarter beat is accentuated by using the "longer" articulation.
Slot 10	**"trip up1"**	Triplet Upbeats
Slot 11	**"Phrase A"**	Example 1 of a combination of different articulations.
Slot 12	**"Phrase B"**	Example 2 of a combination of different articulations.

"12 repetition-Dyn" – Dynamite Dynamics

Available for all String and Wind Instruments with perf-repetition_dyn Patches.

An APP Sequencer based Matrix with Host Tempo Sync activated by default.

X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab)

The available patterns are based on Performance Repetition Patches. The different volumes of the contained notes are as originally recorded and are NOT triggered by MIDI velocity.

There are up to 9 different volume levels available for every recorded dynamic repetition pattern.

Y-Axis Controller (vertical): Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards
For Contrabass Instruments (lowest notes below C2): C6 upwards

The available variations are different successions of crescendo and diminuendo repetition patters in 16th notes.

Slot 1	**"cre-dim"**	Sequence of eight 16th notes from pp–ff, followed by eight 16th notes from ff–pp
Slot 2	**"dim-cre"**	Sequence of eight 16th notes from ff–pp, followed by eight 16th notes from pp–ff
Slot 3	**"cr-di sh"**	Sequence of four 16th notes from pp–ff, followed by 4 16th notes from ff–pp
Slot 4	**"di-cr sh"**	Sequence of four 16th notes from ff–pp, followed by four 16th notes from pp–ff
Slot 5	**"cre step"**	A series of 4 sequences, each with 4 16th notes, starting with pp. Every following sequence starts at the next higher volume from the preceding one.
Slot 6	**"dim step"**	A series of 4 sequences, each with 4 16th notes, starting with ff. Every following sequence starts with the next lower volume from the preceding one.
Slot 7	**"accent A"**	A series of 4 sequences, each with 4 16th notes, with an accentuation on the quarter beat and crescendos towards the accentuated notes.
Slot 8	**"accent B"**	A series of 4 sequence parts, each with 4 16th notes, with an accentuation on the quarter beat and strong cresendos towards the accentuated notes.
Slot 9	**"Phrase A"**	Example 1 of a combination of different articulations.
Slot 10	**"Phrase B"**	Example 2 of a combination of different articulations.
Slot 11	**"Phrase C"**	Example 3 of a combination of different articulations.
Slot 12	**"Phrase D"**	Example 4 of a combination of different articulations.

"21 runs+phr key" – Diatonic Runs & Phrases

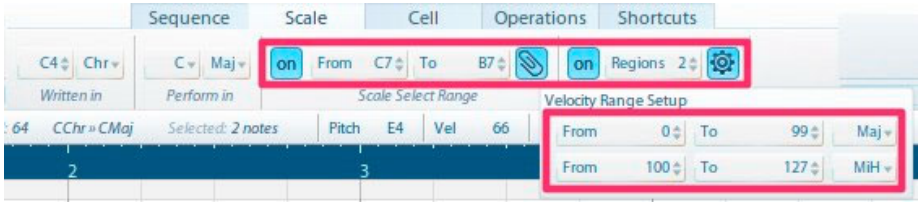
Available for all String and Wind Instruments.

An APP Sequencer based Matrix with Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7 (except Piccolo Flute: C3–B3).

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

> **Attention:** If this Matrix is loaded into an empty preset on its own, the "Scale Select Range" and "Velocity Switch" functions in the APP sequencer (Scale Tab) must be activated.



X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab). The major part of the patches used is based on Performance Fast Legatos, and Slurred Fast Legatos for most string ensembles.

Y-Axis Controller (vertical): Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards
For Contrabass Instruments (lowest notes below C2): C6 upwards

The available variations in the Y-Axis consist of upwards and downwards runs and phrases in different lengths.

Slot 1	**"Oct up"**	Diatonic run upwards, 1 octave
Slot 2	**"Oct do"**	Diatonic run downwards, 1 octave
Slot 3	**"Oct ac-u"**	Diatonic run upwards, 1 octave, with a slight accelerando
Slot 4	**"Oct ac-d"**	Diatonic run downwards, 1 octave, with a slight accelerando
Slot 5	**"2 Oct up"**	Diatonic run upwards, 2 octaves
Slot 6	**"2 Oct do"**	Diatonic run downwards, 2 octaves
Slot 7	**"Quint up"**	Diatonic run upwards, 1 fifth
Slot 8	**"Quint do"**	Diatonic run downwards, 1 fifth
Slot 9	**"Phr A up"**	Progressive phrase upwards (step by step) with a repetition note, 1 octave.
Slot 10	**"Phr A do"**	Progressive phrase downwards (step by step) with a repetition note, 1 octave.
Slot 11	**"Phr B up"**	Progressive "mordent phrase" upwards (step by step), 1 octave.
Slot 12	**"Phr B do"**	Progressive "mordent phrase" downwards (step by step), 1 octave.

"22 runs+phr whl" – Whole-tone Runs & Phrases

Like Matrix "21 runs+phr key", but based on whole-tone scales.

"23 runs+phr chr" – Chromatic Runs & Phrases

Like Matrix "21 runs+phr key", but based on chromatic scales.

"24 runs+phr key ext"

Like Matrix "21 runs+phr key", based on fast Marcato Performance Patches.

> **Attention:** "Ext" Matrices are only available if the Extended Library of the corresponding Collection is available, and only for instruments that contain marcato and/or spiccato Performance Patches.

“25 runs+phr whl ext”

Like Matrix “21 runs+phr key”, based on fast Marcato Performance Patches and whole-tone scales.

“26 runs+phr chr ext”

Like Matrix “21 runs+phr key”, based on fast Marcato Performance Patches and chromatic scales.

“31 perf-trills” – Thrilling Trills

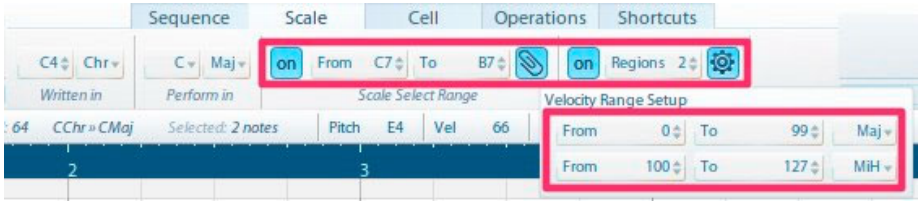
Available for all String and Wind Instruments with Performance Trill Patches.

An APP Sequencer based Matrix with Host Tempo Sync NOT activated by default. Trill speed can be set directly in the APP sequencer’s “Sequence” tab.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7 (except Piccolo Flute: C3–B3).

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major Scale
Velocity 100–127: Minor Harmonic Scale

> **Attention:** If this Matrix is loaded into an empty preset on its own, the “Scale Select Range” and “Velocity Switch” functions in the APP sequencer (Scale Tab) must be activated.



X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab). The major part of the Patches used is based on Performance Trill Patches.

Y-Axis Controller (vertical): Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards
For Contrabass Instruments (lowest notes below C2): C6 upwards

The available variations in the Y-Axis consist of trills in different speeds, accelerating or decelerating, plus a variety of mordents and inverted mordents (“Pralltriller”).

Slot 1	**“trill”**	Trill, middle tempo.
Slot 2	**“trill ac”**	Trill, accelerating.
Slot 3	**“trill fa”**	Trill, fast tempo.
Slot 4	**“trill ri”**	Trill, decelerating.
Slot 5	**“mord up1”**	Embellishment, starting with upwards note.
Slot 6	**“mord do1”**	Embellishment, starting with downwards note.
Slot 7	**“mord up2”**	Embellishment, starting with two upwards notes.
Slot 8	**“mord up2+”**	Embellishment, starting with two upwards notes (variation).
Slot 9	**“mord do2”**	Embellishment, starting with two downwards notes.
Slot 10	**“mord do2+”**	Embellishment, starting with two downwards notes (variation).
Slot 11	**“Prall up”**	Inverted mordent (“Pralltriller”) upwards
Slot 12	**“Prall do”**	Inverted mordent (“Pralltriller”) downwards

"32 arpeggios" – Fantastic Four String Arpeggios

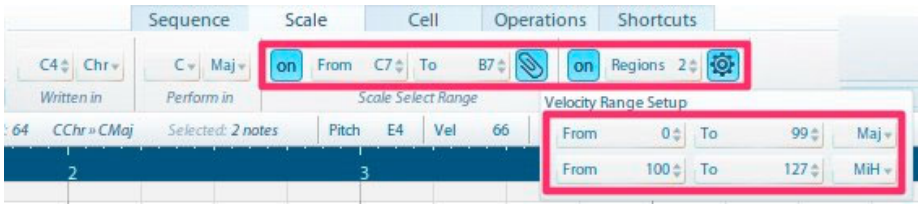
Available for all String Instruments except Double Basses.

APP Sequencer-based Matrix, Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

Attention: If this Matrix is loaded into an empty preset on its own, the "Scale Select Range" and "Velocity Switch" in the APP sequencer (Scale Tab) must be activated.



X-Axis Controller: Articulations are assigned in the APP Sequencer (Cell Tab)

The major part of the used patches is based on Performance Legato Patches, in combination with Performance Repetitions.

Y-Axis Controller: Keyswitches

Only for Bass to Soprano Instruments (lowest note C2): C1 upwards

The available variations in the Y-Axis are the most essential arpeggio chords over 4 strings within a scale (except #12).

Slot 1	**"ma3 root"**	Arpeggio Sequence, as an example in C major: C–G–E–C
Slot 2	**"ma3 inv1"**	Arpeggio Sequence, as an example in C major: C–A–E–A
Slot 3	**"ma3 inv2"**	Arpeggio Sequence, as an example in C major: C–A–F–C
Slot 4	**"ma7 root"**	Arpeggio Sequence, as an example in C major: C–G–E–B
Slot 5	**"ma7 inv1"**	Arpeggio Sequence, as an example in C major: C–G–E–A
Slot 6	**"ma7 inv2"**	Arpeggio Sequence, as an example in C major: C–A–F–E
Slot 7	**"ma7 inv3"**	Arpeggio Sequence, as an example in C major: C–A–F–D
Slot 8	**"ma9 1"**	Arpeggio Sequence, as an example in C major: C–G–D–B
Slot 9	**"ma9 2"**	Arpeggio Sequence, as an example in C major: C–G–E–D
Slot 10	**"ma9 3"**	Arpeggio Sequence, as an example in C major: C–A–E–D
Slot 11	**"Qua–Qui"**	Arpeggio Sequence, as an example in C major: C–F–C–F
Slot 12	**"augm chr"**	Arpeggio Sequence, as an example in C major: C–G#–E–C

Single Instrument Presets

All Vienna Instruments PRO 2 Single Instrument Presets are contained in the already existing Preset folders. They are placed right before the original Vienna Instruments Presets.

All Cells are saved in “disabled” status (without any loaded samples). If you want your Presets to be loaded with their Cells automatically enabled, just activate “Force Enabled ON/OFF” in the Settings menu.

Use Keyswitches to switch between Matrices. Alternatively, you can also use Program Changes or MIDI Control Changes.

Matrix switching: Keyswitches

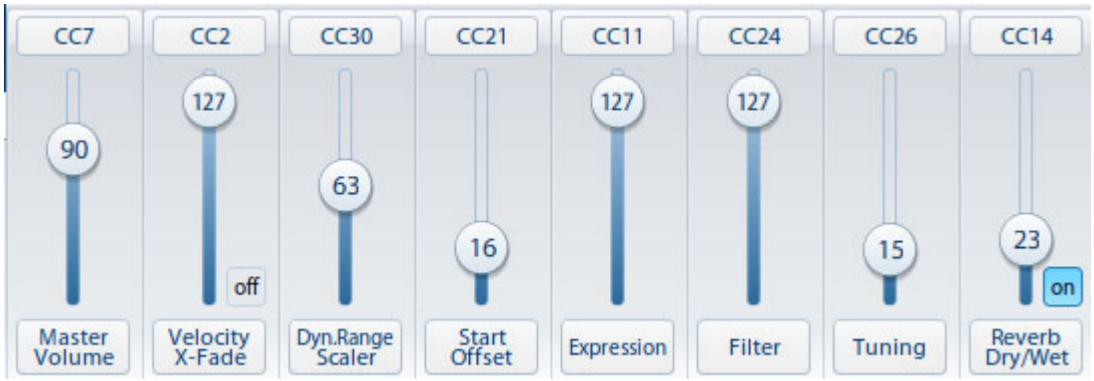
For Alto and Soprano Instruments (lowest note C3): C2 upwards
For Bass and Tenor Instruments (lowest notes below C3): C6 upwards
For Contrabass Instruments (lowest notes below C2): C5 upwards

Internal reverb is activated!

Tuning Table: 12-tone

Assignment of the most important controllers (pre-configured sliders in Basic View)

Master Volume	CC7
Velocity X-Fade	CC2
Velocity X-Fade ON/OFF switch	CC28
Dyn Range scaler	CC30
Start Offset scaler	CC21
Expression	CC11
Filter	CC24
Tuning	CC26 (scales Humanize Tuning Curves)
Reverb Dry/Wet	CC14
Reverb ON/OFF switch	CC15



Common Matrix assignments (if corresponding Patches are available):

C	01_basic
C#	11 repetitions
D	12 repetition-Dyn
D#	21 runs+phr key
E	22 runs+phr whl
F	23 runs+phr chr
F#	24 runs+phr key ext
G	25 runs+phr whl ext
G#	26 runs+phr chr ext
A	31 perf-trills
A#	32 arpeggios

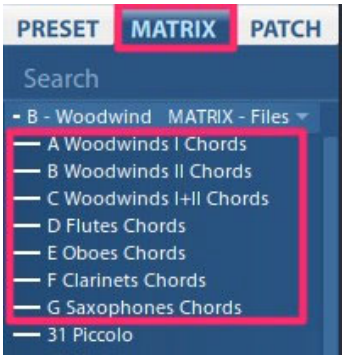
Chord Matrices

The Matrix Browser displays Chord Matrices in a new folder above the corresponding instrument group's original Single Instruments folder.

The following Chord Matrix folders are available and will be displayed if the respective licenses are available:

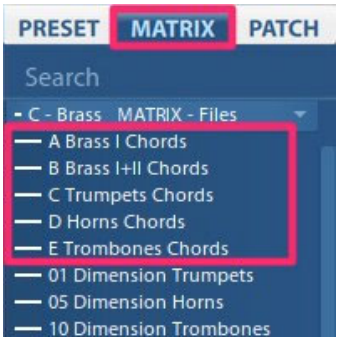
Woodwind MATRIX Files

A Woodwinds I	*License:* Woodwind I
B Woodwind II	*License:* Woodwind II
C Woodwind I+II	*Licenses:* Woodwind I, Woodwind II
D Flutes	*Licenses:* Woodwind I, Woodwind II, Woodwind III (Special Woodwinds)
E Oboes	*Licenses:* Woodwind I, Woodwind II, Woodwind III (Special Woodwinds)
F Clarinets	*Licenses:* Woodwind I, Woodwind II, Woodwind III (Special Woodwinds)
G Saxophones	*Licenses:* Saxophones



Brass MATRIX Files

A Brass I	*License:* Brass I
B Brass I+II	*License:* Brass I, Brass II
C Trumpets	*Licenses:* Brass I, Brass II, Brass III (Special Brass), Dimension Brass, DL Trumpet (B)
D Horns	*Licenses:* Brass I, Brass II, Dimension Brass
E Trombones	*Licenses:* Brass I, Brass II, Dimension Brass



All Chord Matrices are based on APP Sequences and consist of chords with 4 or 5 voices with the following voicing:

Woodwinds I

1st Voice	Flutes
2nd Voice	Oboes
3rd Voice	Clarinets
4th Voice	Bassoons

Woodwinds II

1st Voice	Flute & Piccolo (in octaves)
2nd Voice	Clarinet & Oboe
3rd Voice	Alto Flute & English Horn
4th Voice	Bass Clarinet
5th Voice	Contra Bassoon

Woodwinds I+II

1st Voice	Flute & Piccolo (in octaves)
2nd Voice	Clarinet & Oboe
3rd Voice	Bass Clarinet & English Horn
4th Voice	Bassoon
5th Voice	Contra Basson

Flutes

1st Voice	Flute 1 & Piccolo (in octaves)
2nd Voice	Flute 2
3rd Voice	Alto Flute
4th Voice	Bass Flute

Oboes

1st Voice	Oboe
2nd Voice	Oboe d'amore
3rd Voice	English Horn
4th Voice	Heckelphone

Clarinets

1st Voice	Eb Clarinet
2nd Voice	Bb Clarinet
3rd Voice	Clarinets
4th Voice	Bass Clarinet
5th Voice	Contra Bass Clarinet

Saxophones

1st Voice	Soprano Saxophone
2nd Voice	Alto Saxophone
3rd Voice	Tenor Saxophone
4th Voice	Baritone Saxophone
5th Voice	Bass Saxophone

Brass I

1st Voice	Trumpets
2nd Voice	Horns
3rd Voice	Trombones
4th Voice	Trombones
5th Voice	Tuba

Brass I+II

1st Voice	Trumpets
2nd Voice	Horns
3rd Voice	Trombones
4th Voice	Bass Trombone
5th Voice	Contrabass Tuba

Trumpets

1st Voice	1st Trumpets
2nd Voice	2nd Trumpets
3rd Voice	3rd Trumpets
4th Voice	Bass Trumpet

Horns

1st Voice	1st Horns
2nd Voice	2nd Horns
3rd Voice	3rd Horns
4th Voice	4th Horns

Trombones

1st Voice	1st Trombones
2nd Voice	2nd Trombones
3rd Voice	3rd Trombones
4th Voice	Bass Trombone
5th Voice	Contrabass Trombone

Chord Matrices

"01 Chords (8)"

Available for all instrument groups with Chord Matrices.

Play range: C3–B5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Selection of 12 scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

X-Axis Controller (horizontal): Keyswitches to trigger the most important articulations:

C6	Performance Legato
C#6	Portamento (Strings) or Sustain Vibrato (Winds)
D6	Staccato
D#6	Détaché (Strings) or Portato short (Winds)
E6	Sustain with vibrato (Strings) or Sustain without vibrato (Winds)
F6	Fortepiano (Appassionata Strings: Sforzando)
F#6	Sforzando
G6	Performance Repetition (Legato)
G#6	Performance Repetition Portato (Solo Strings: Staccato)
A6	Performance Repetition Spiccato (Strings) or Staccato (Winds)
A#6	Tremolo (Strings) or Flutter Tongue (Winds)
B6	Pizzicato (Strings) or Sforzatissimo (Winds)

Y-Axis Controller (vertical): Keyswitches for a choice of different chord inversions and additional chords like diminished, augmented and ninth chords

With all variations, the soprano voice plays the root note.

C1	"ma3 root"	Triad, bass note on the root note
C#1	"ma3 inv1"	Triad, bass note on the third
D1	"ma3 inv2"	Triad, bass note on the fifth
D#1	"ma7 root"	Seventh chord, bass note as root
E1	"ma7 inv1"	Seventh chord, bass note on the third
F1	"ma7 inv2"	Seventh chord, bass note on the fifth
F#1	"ma7 inv3"	Seventh chord, bass note on the seventh
G1	"ma9"	Ninth chord
G#1	"dim7 chr"	Diminished Seventh chord (chromatic transposition)
A1	"augm chr"	Augmented Triad (chromatic transposition)
A#1	"root + 5th"	Chord without third
B1	"5th 3x"	Chord in steps of fifths

"02 Chords (3)"

Like Matrix "01 Chords (8)", soprano voice on the third

"03 Chords (5)"

Like Matrix "01 Chords (8)", soprano voice on the fifth

“04 Chords (7+8)”

Like Matrix “01 Chords (8)”, soprano voice on the octave or on the seventh (with all Seventh chords)

“05 Chords (8) Ext”

Like Matrix “01 Chords (8)”, partly based on alternative articulations in the X-Axis (if Extended Library content is available).

C6 Performance Trills
C#6 Performance Marcato
D6 Performance Spiccato (Strings) or Single Note Staccato (Winds)
D#6 Détaché long (Strings) or Portato medium (Winds)
E6 Sustain without vibrato
F6 Short Crescendos & Diminuendos (ca. 2 seconds), switch with A/B Switch
F#6 pfp (crescendo – diminuendo)
•G6 Performance Repetition Legato (except Appassionata Strings: pfp long)
G#6 Performance Repetition Portato (except Appassionata Strings: Performance sfz)
A6 Performance Repetition Harsh (Strings) or Staccato (Winds)
A#6 Harmonics (Strings except Appassionata Strings) or Flutter tongue (Winds)
B6 (Snap) Pizzicato (Strings) or Sforzatissimo (Winds)

“06 Chords (3) Ext”

Like Matrix “05 Chords (8) Ext”, soprano voice on the third

“07 Chords (5) Ext”

Like Matrix “05 Chords (8) Ext”, soprano voice on the fifth

“08 Chords (7+8) Ext”

Like Matrix “05 Chords (8) Ext”, soprano voice on the octave or on the seventh (with all seventh chords)

"11 Cho-rep (8)"

Available for all instrument groups with Chord Matrices.

Play range: C3–B5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab)

Y-Axis Controller (vertical): Keyswitches for a choice between different chord inversions and additional chords like diminished, augmented and ninth chords

With all variations, the soprano voice plays the root note; all sequences are based on a 16th-note repetition pattern chord.

C1	"ma3 root"	Triad, bass note on the root note
C#1	"ma3 inv1"	Triad, bass note on the third
D1	"ma3 inv2"	Triad, bass note on the fifth
D#1	"ma7 root"	Seventh chord, bass note as root
E1	"ma7 inv1"	Seventh chord, bass note on the third
F1	"ma7 inv2"	Seventh chord, bass note on the fifth
F#1	"ma7 inv3"	Seventh chord, bass note on the seventh
G1	"ma9"	Ninth chord
G#1	"dim7 chr"	Diminished Seventh chord (chromatic transposition)
A1	"augm chr"	Augmented Triad (chromatic transposition)
A#1	"root + 5th"	Chord without third
B1	"5th 3x"	Chord in steps of fifths

"12 Cho-rep (3)"

Like Matrix "11 Cho-rep (8)", soprano voice on the third

"13 Cho-rep (5)"

Like Matrix "11 Cho-rep (8)", soprano voice on the fifth

"14 Cho-rep (7+8)"

Like Matrix "11 Cho-rep (8)", soprano voice on the octave or on the seventh (with all seventh chords)

"15 Cho-repDyn (8)"

Available for all instrument groups with Chord Matrices.

Play range: C3–B5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab)

Y-Axis Controller (vertical): Keyswitches for a choice between different chord inversions and additional chords like diminished, augmented and ninth chords

With all variations, the soprano voice plays the root note; all sequences are based on a 16th-note repetition pattern chord with dynamic changes, and contain eight 16ths from pp–ff and eight 16ths from ff–pp.

C1	"ma3 root"	Triad, bass note on the root note
C#1	"ma3 inv1"	Triad, bass note on the third
D1	"ma3 inv2"	Triad, bass note on the fifth
D#1	"ma7 root"	Seventh chord, bass note as root
E1	"ma7 inv1"	Seventh chord, bass note on the third
F1	"ma7 inv2"	Seventh chord, bass note on the fifth
F#1	"ma7 inv3"	Seventh chord, bass note on the seventh
G1	"ma9"	Ninth chord
G#1	"dim7 chr"	Diminished Seventh chord (chromatic transposition)
A1	"augm chr"	Augmented Triad (chromatic transposition)
A#1	"root + 5th"	Chord without third
B1	"5th 3x"	Chord in steps of fifths

"16 Cho-repDyn (3)"

Like Matrix "15 Cho-repDyn (8)", soprano voice on the third

"17 Cho-repDyn (5)"

Like Matrix "15 Cho-repDyn (8)", soprano voice on the fifth

"18 Cho-repDyn (7+8)"

Like Matrix "15 Cho-repDyn (8)", soprano voice on the octave or on the seventh (with all seventh chords)

"21 Cho-Run key"

Available for all Instrument Groups with Chord Matrices.

Play range: C3–C5 (depending on the instrument group and played chord,some limitations in the highest play range will apply)

Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab). The main part of the used Patches is based on Performance Fast Legatos, and Slurred Fast Legatos for most String ensembles.

Y-Axis Controller (vertical): Keyswitches for a choice between different runs upwards and downwards in different lengths and chord combinations. (Switches G#1–B1 are not available for the chord groups of Trumpets, Horns and Trombones due to the limited play range of these instrument groups).

C1	"up Octav"	Octave run upwards, chord in unison in octaves
C#1	"do Octav"	Octave run downwards, chord in unison in octaves
D1	"up Oc+Qi"	Octave run upwards, chord in fifths and octaves
D#1	"do Oc+Qi"	Octave run downwards, chord in fifths and octaves
E1	"up Ch-sh"	Fourth run, crossed voices: upper voices upwards, lower voices downwards
F1	"do Ch-sh"	Fourth run, crossed voices: upper voices downwards, lower voices upwards
F#1	"up Ch-me"	Octave run, crossed voices: upper voices upwards, lower voices downwards
G1	"do Ch-me"	Octave run, crossed voices: upper voices downwards, lower voices upwards
G#1	"up Ch-lo"	Run over 2 octaves, crossed voices: upper voices upwards, lower voices upwards and downwards
A1	"do Ch-lo"	Run over 2 octaves, crossed voices: upper voices downwards, lower voices downwards and upwards
A#1	"up solo"	Run over 4 octaves in unison, upwards with changing instrumentation
B1	"do solo"	Run over 4 octaves in unison, downwards with changing instrumentation

"22 Cho-Run whl"

Like Matrix "21 Cho-Run key", based on whole-tone scales

"23 Cho-Run chr"

Like Matrix "21 Cho-Run key", based on chromatic scales

"24 Cho-Run key Ext"

Like Matrix "21 Cho-Run key", based on fast Marcato Performance Patches.

> **Attention:** "Ext" Matrices are only available if the corresponding Instrument's Extended Library is available, and only for instruments that contain marcato and/or spiccato Performance Patches.

"25 Cho-Run whl Ext"

Like Matrix "21 Cho-Run key", based on fast Marcato Performance Patches and whole-tone scales.

"26 Cho-Run chr Ext"

Like Matrix "21 Cho-Run key", based on fast Marcato Performance Patches and chromatic scales.

"31 Cho-Phr key"

Available for all instrument groups with Chord Matrices.

Play range: C3–C5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab). The main part of the Patches used is based on Performance Fast Legatos.

Y-Axis Controller (vertical): Keyswitches for a choice between different phrases, upwards and downwards in different chord combinations.

C1	"up Octav"	Incremental octave phrase upwards with repetition note, chord in unison, arranged in octaves
C#1	"do Octav"	Incremental octave phrase downwards with repetition note, chord in unison, arranged in octaves
D1	"up Oc+Ch"	Incremental octave phrase upwards with repetition note, arranged in triads
D#1	"do Oc+Ch"	Incremental octave phrase downwards with repetition note, arranged in triads
E1	"up Phr"	Phrase upwards, starting with repetition note, chord in unison, arranged in octaves
F1	"do Phr"	Phrase downwards, starting with repetition note, chord in unison, arranged in octaves
F#1	"up Octav"	Incremental octave phrase upwards with changed note (cambiata), chord in unison, arranged in octaves
G1	"do Octav"	Incremental octave phrase downwards with changed note (cambiata), chord in unison, arranged in octaves
G#1	"up Oc+Ch"	Incremental octave phrase upwards with changed note (cambiata), arranged in triads
A1	"do Oc+Ch"	Incremental octave phrase downwards with changed note (cambiata), arranged in triads
A#1	"up Phr"	Phrase upwards starting with changed note (cambiata), chord in unison, arranged in octaves
B1	"do Phr"	Phrase downwards with changed note (cambiata) downwards, chord in unison, arranged in octaves

"32 Cho-Phr whl"

Like Matrix "31 Cho-Phr key", based on whole-tone scales.

"33 Cho-Phr chr"

Like Matrix "31 Cho-Phr key", based on chromatic scales.

"34 Cho-Phr key Ext"

Like Matrix "31 Cho-Phr key", based on fast Marcato Performance Patches.

Attention: "Ext" Matrices are only available if the corresponding Instrument's Extended Library is available, and only for instruments that contain marcato and/or spiccato Performance Patches.

“35 Cho-Phr whl Ext”

Like Matrix “31 Cho-Phr key”, based on fast Marcato Performance Patches and whole-tone scales.

“36 Cho-Phr chr Ext”

Like Matrix “31 Cho-Phr key”, based on fast Marcato Performance Patches and chromatic scales.

“41 Cho-trem”

Finger tremolos available for all String and Woodwind groups with Chord Matrices and Performance Trill Patches. (Extended Library Content required!)

An APP Sequencer based Matrix with Host Tempo Sync NOT activated by default. Trill speed can be set directly in the APP sequencer’s “Sequence” tab.

Play range: C3–B5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

X-Axis Controller (horizontal): Articulations are assigned in the APP Sequencer (Cell Tab).

Y-Axis Controller (vertical): Keyswitches for a choice of different chord inversions and additional chords like diminished, augmented and ninth chords.

Chord Presets

The Vienna Instruments PRO 2 Chord Presets are located in a folder above the original Single Instruments folder in the Preset Browser of the corresponding instrument group.

All Cells are saved in “disabled” status (without any loaded samples). To load your Presets with all cells automatically enabled, simply activate “Force Enabled ON/OFF” in the Settings menu.

Use Keyswitches to switch between Matrices. Alternatively, you can also use Program Changes or MIDI Control Changes.

Internal Reverb is activated!

Tuning Table: 12-tone

Assignment of the most essential controllers (pre-configured sliders in Basic View)

Master Volume	CC7
Velocity X-Fade	CC2
Velocity X-Fade ON/OFF switch	CC28
Dyn Range Scaler	CC30
Start Offset Scaler	CC21
Expression	CC11
Filter	CC24
Tuning	CC26 (scales Humanize Tuning Curves)
Reverb Dry/Wet	CC14
Reverb ON/OFF switch	CC15

Preset “Chords Std Set”

Contains the most important 11 Chord Matrices, based mostly on Standard Library Content.

C2	01 Chords (8)
C#2	02 Chords (3)
D2	03 Chords (5)
D#2	04 Chords (7+8)
E2	11 Cho-rep (8)
F2	12 Cho-rep (3)
F#2	13 Cho-rep (5)
G2	14 Cho-rep (7+8)
G#2	21 Cho-Run key
A2	22 Cho-Run whl
A#2	23 Cho-Run chr

Preset “Chords Full Set”

Contains all available Chord Matrices (except Phrase Matrices), therefore based on Full Library Content.

If you intend to use all matrices via Keyswitches, you will need a second keyboard for playing live!

C2 01 Chords (8)
C#2 02 Chords (3)
D2 03 Chords (5)
D#2 04 Chords (7+8)
E2 11 Cho-rep (8)
F2 12 Cho-rep (3)
F#2 13 Cho-rep (5)
G2 14 Cho-rep (7+8)
G#2 21 Cho-Run key
A2 22 Cho-Run whl
A#2 23 Cho-Run chr

C ~ 05 Chords (8) Ext
C# ~ 06 Chords (3) Ext
D ~ 07 Chords (5) Ext
D# ~ 08 Chords (7+8) Ext
E ~ 15 Cho-repDyn (8)
F ~ 16 Cho-repDyn (3)
F# ~ 17 Cho-repDyn (5)
G ~ 18 Cho-repDyn (7+8)
G# ~ 24 Cho-Run key Ext
A ~ 25 Cho-Run whl Ext
A# ~ 26 Cho-Run chr Ext