

**Vienna Instruments**  
**Solo Download Instruments**  
**Piccolo Trumpet**  
**Full Library**

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## Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one of our Solo Download Instruments! This document contains the mapping information for the "Full" version of the Vienna Instruments Piccolo Trumpet. You will find in it a comprehensive survey of the articulations/Patches content, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

## "Full" Library

As opposed to the "Standard" versions of our Solo Download Instruments, the "Full" versions are identical with the corresponding instruments of a DVD Collection, i.e., they contain exactly the same samples, Patches, Matrices and Presets as the latter without any restrictions.

Installing a Download Instrument's Full version copies that instrument's sample content to a separate folder on your hard disk, so that it is not necessary to keep its Standard version installed – you may either delete it from your hard disk or at least remove it from the Directory Manager's list of activated instruments. In the Vienna Instruments Browser, the path of the Full version will be the same as that of the corresponding DVD Instrument, so that you can still see both versions as separate entries if you keep the Standard version installed.

## Data paths and Patch name conventions

Since the Full versions of Download Instruments conform to the corresponding DVD Instruments, the data paths in your Vienna Instruments browser will be different than those of Standard Download or Special Edition Instruments. For instance, the path of the Standard Download Library of Flute 1 is "02D Flute-1", and all Patches can be found in this folder regardless of the articulation group they belong to. The Patch number is also marked with a "D" so that you immediately know it is a Download Instrument. In the Vienna Special Edition, Flute 1 is located in the folder "11 Flutes" together with the other flutes. Here, the Patch number is marked with an "S". The Full Download of Flute 1 is located in the subfolder "32 Flute" of the section "Woodwind Patches", which again contains subfolders grouping the Patches according to type, e.g., "01 SHORT + LONG NOTES", "02 DYNAMICS", etc. Patch names of the Full Download Library may differ from the corresponding ones of the Standard Download Library.

While Full Download Instruments contain all articulations of the corresponding DVD Instruments, their Patches are not divided into Standard and Extended content. The list of articulations further down which gives a summary of the Library's contents.

Special Patch configurations which sometimes are part of a Standard Download Instrument may be found in a reserved folder called "98 RESOURCES" in the Full Instrument. E.g., Flute 1 Standard contains the Patch "22D FL1 legato-sus"; in Flute 1 Full, this Patch is called "01 FL1\_perf\_leg\_sustain" and is located in the Resources' subfolder "03 Perf Speed variation". (Apart from that, it also contains more samples.) Other articulations that can be found in the Resources folder are isolated dynamics repetitions in the subfolder "01 Perf Rep dyn" – e.g., the five repetitions of a legato crescendo, divided into separate Patches – and extracted velocity layers of sustained notes in the subfolder "02 Long Notes – Single Layer".

## 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.

Where the type of articulation requires a special mapping (e.g., natural harmonics patches), the mapping layout will be shown in a detailed graphic.

**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.)

The Patch information also lists a Patch's velocity layers in detail. Velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements:

Layers	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6
2	1-88	89-127				
3	1-55	56-88	89-127			
4	1-55	56-88	89-108	109-127		
5	1-24	25-55	56-88	89-108	109-127	
6	1-24	25-55	56-88	89-108	109-118	119-127

## Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments. They allow you to play authentic legato without any programming tricks. In our Silent Stage, all intervals from minor second to the octave were recorded for every instrument – up and down, of course; that makes 24 interval samples per note for one velocity alone! When you load an interval performance Patch and play a line on your keyboard, the software automatically joins the right samples with their interval transitions again, and you hear a perfect legato. By the way, this technique is not only used for legato but also for other articulations like the strings' portamento, marcato, or détaché and spiccato articulations.

Interval performances also contain at least two legato repetitions for every note which alternate automatically whenever you strike a key more than once. There also are preconfigured thresholds for legato and repetition notes: The legato threshold – i.e., the maximum break between notes where legato is played – is 50 ms. Otherwise, a sustained starting note will sound so that you can easily start a new phrase without leaving the legato Patch. For note repetitions, the threshold is 200 ms: a break up to that duration will yield a legato repetition; if the break is longer, a new starting note. But of course, it's mingling legato with other articulations which makes a piece really come alive.

Due to their nature, all interval performances are monophonic; otherwise, the software would have to be able to decide which source note belongs to which target note. To circumvent this, you can open two VI instances of the same instrument on separate MIDI tracks without any additional strain on your RAM.

*Note:* the Vienna Instruments PRO player software also allows you to play polyphonic Interval performances.

Another variety of interval performance you will come across is the "perf-leg\_sus" Patch. These Patches also contain normal legatos, only the target note of each interval is crossfaded into a looped sustain. They can be used for slower pieces with long notes; however, you should use them with circumspection, since plain legatos sound more lively because they not only render the interval transitions as they were played, but also have different target samples for every interval instead of the same sustained note: When you play, e.g., c-e and then c#-e with normal legato, you will get two different "e" tones; with sus-legato you won't.

## 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. For example, the A/B switches for double bass are A0 and A#0 because the instrument's lower range extends to B0.

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's settings at the **Control edit** page, 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: 101–112; 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.

## Abbreviations

Here's a list of abbreviations in Patch names, which will help you to determine a Patch's content even without the help of the Vienna Instruments browser. Please note that not all of the abbreviations may occur in the manual on hand.

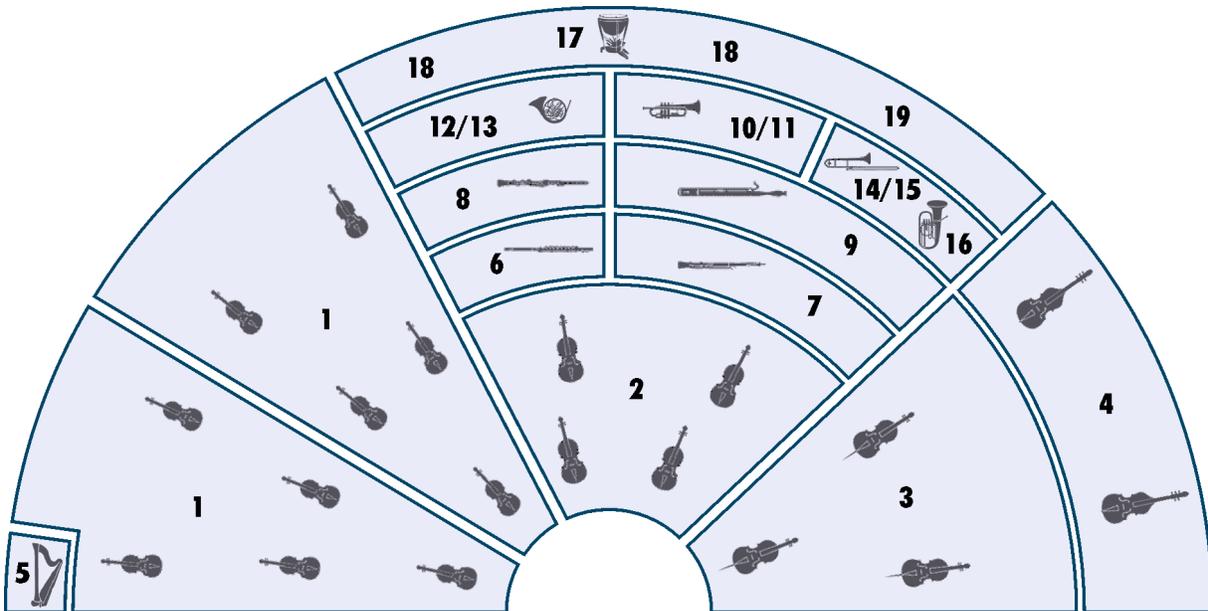
Abbreviation	Meaning	Abbreviation	Meaning
+	faster articulation (runs and arpeggios)	lo	long
150, 160, ...	150, 160, ... BPM (beats per minute)	ma	major
1s, 2s, ...	tone length 1 sec., 2 sec., ...	marc	marcato
acc	accelerando	me	medium
all	combination of all Patches of a category	mi	minor
arp	arpeggio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

<b>Articulations</b>
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<b>51 Trumpet Piccolo</b>	
<b>01 SHORT + LONG NOTES</b>	Staccato Portato medium, normal, marcato, and with soft attack Portato long, with light vibrato, marcato and soft attack; with strong vibrato, normal and soft attack; without vibrato, normal, marcato, and with soft attack Portato short, with normal and soft attack Sustained with light, strong, progressive, and without vibrato
<b>02 DYNAMICS</b>	Crescendo and diminuendo with vibrato, 1, 1.5, 2, 3, and 5 sec. Crescendo and diminuendo without vibrato, 1, 1.5, 2, 3, 4, and 6 sec. pfp with vibrato, 5 and 9 sec. pfp without vibrato, 4, 8, and 12 sec. Fortepiano, sforzato, sforzatissimo
<b>03 FLATTER + TRILLS</b>	Flutter tonguing, normal and crescendo Trills, minor and major 2nd, slow, fast, and accelerando
<b>10 PERF INTERVAL</b>	Legato with and without vibrato, normal and with sustain crossfading Marcato
<b>11 PERF INTERVAL FAST</b>	Legato Marcato
<b>12 PERF TRILL</b>	Trills, legato, minor to major 2nd
<b>13 PERF REPETITION</b>	Legato slow and fast Portato Staccato Dynamics for all repetitions
<b>14 FAST REPETITION</b>	Staccato, 9 repetitions, 140–180, and 200 BPM Normal and dynamics
<b>15 UPBEAT REPETITION</b>	1 and 3 upbeats, 80–140, 160, 180, and 200 BPM 2 upbeats, 90–140, 160, 180, and 200 BPM
<b>16 GRACE NOTES</b>	Grace notes, minor and major 2nd, up and down
<b>17 SCALE RUNS</b>	Octave runs, legato Major, C to B key, up and down
<b>18 MORDENTS</b>	Mordents, legato, up and down 6 variations each

## 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      | 9 Bassoon, contrabassoon        |
| 2 Viola                   | 10/11 Trumpet                   |
| 3 Cello                   | 12/13 Horn                      |
| 4 Double bass             | 14/15 Trombone                  |
| 5 Harp                    | 16 Tuba                         |
| 6 Concert flute, piccolo  | 17 Timpani                      |
| 7 Oboe, English horn      | 18 Drums, cymbals               |
| 8 Clarinet, bass clarinet | 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.

# 51 Trumpet Piccolo

## The instrument

### Description

The name piccolo trumpet is given to all trumpets pitched from D through high Bb. Today, the piccolo trumpet is used for orchestral playing mainly when the trumpet part is permanently in a very high register, e.g. for the performance of baroque clarino parts in Bach and Handel.

### Range and notation

The piccolo trumpet in high Bb has a range of D4–G6. It is notated in treble clef. It is a transposing instrument and sounds a minor seventh higher than written.

### Sound characteristics

The piccolo trumpet has a sound which exhibits all the typical characteristics of the trumpet, although it is brighter and clearer than the C trumpet. The instrument's easy response means that the full sound is achieved immediately after blowing. The sound develops best between C5 and C6.

### Combination with other instruments

The extreme clarity and brilliance of the piccolo trumpet makes it ideal as a solo instrument, but in 20th century orchestration piccolo trumpets of various pitches are often used to flesh out the sound, e.g. in unison with the oboes.

<b>Patches</b>
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**01 SHORT + LONG NOTES**

Range: C4–F6

**01 PTr\_staccato****Samples: 168****RAM: 10 MB**

Staccato  
3 velocity layers  
4 Alternations

**02 PTr\_portato\_short****Samples: 166****RAM: 10 MB**

Portato, short  
3 velocity layers  
4 Alternations

**03 PTr\_portato\_short\_soft****Samples: 166****RAM: 10 MB**

Portato, short, soft attack  
3 velocity layers  
4 Alternations

**04 PTr\_portato\_medium****Samples: 166****RAM: 10 MB**

Portato, medium  
3 velocity layers  
4 Alternations

**05 PTr\_portato\_medium\_marc****Samples: 112****RAM: 7 MB**

Portato, medium, marcato  
2 velocity layers  
4 Alternations

**06 PTr\_portato\_medium\_soft****Samples: 168****RAM: 10 MB**

Portato, medium, soft attack  
3 velocity layers  
4 Alternations

**07 PTr\_portato\_long-marc\_Vib-light****Samples: 112****RAM: 7 MB**

Portato, long, marcato, with light vibrato  
2 velocity layers  
Release samples  
2 Alternations

**08 PTr\_portato\_long-soft\_Vib-light****Samples: 168****RAM: 10 MB**

Portato, long, soft attack, with light vibrato  
3 velocity layers  
Release samples  
2 Alternations

<b>09 PTR_portato_long-norm_Vib-strong</b>		<b>Samples: 168</b>	<b>RAM: 10 MB</b>
Portato, long, normal, with strong vibrato 3 velocity layers Release samples 2 Alternations			
<b>10 PTR_portato_long-soft_Vib-strong</b>		<b>Samples: 167</b>	<b>RAM: 10 MB</b>
Portato, long, soft attack, with strong vibrato 3 velocity layers Release samples 2 Alternations			
<b>11 PTR_portato_long-norm_noVib</b>		<b>Samples: 168</b>	<b>RAM: 10 MB</b>
Portato, long, normal, without vibrato 3 velocity layers Release samples 2 Alternations			
<b>12 PTR_portato_long-marc_noVib</b>		<b>Samples: 112</b>	<b>RAM: 7 MB</b>
Portato, long, marcato, without vibrato 2 velocity layers Release samples 2 Alternations			
<b>13 PTR_portato_long-soft_noVib</b>		<b>Samples: 168</b>	<b>RAM: 10 MB</b>
Portato, long, soft, without vibrato 3 velocity layers Release samples 2 Alternations			
<b>21 PTR_sus_Vib-light</b>	<b>Range: C4–E6</b>	<b>Samples: 155</b>	<b>RAM: 9 MB</b>
Sustained, with light vibrato 3 velocity layers Release samples			
<b>22 PTR_sus_Vib-strong</b>		<b>Samples: 165</b>	<b>RAM: 10 MB</b>
Sustained, with strong vibrato 3 velocity layers Release samples			
<b>23 PTR_sus_Vib-progr</b>	<b>Range: C4–E6</b>	<b>Samples: 156</b>	<b>RAM: 9 MB</b>
Sustained, progressive vibrato 3 velocity layers Release samples			
<b>24 PTR_sus_noVib</b>		<b>Samples: 165</b>	<b>RAM: 10 MB</b>
Sustained, without vibrato 3 velocity layers Release samples			

**02 DYNAMICS****Range: C4–F6****01 PTR\_dyn\_Vib\_1s****Samples: 54****RAM: 3 MB**

Crescendo and diminuendo, with vibrato, 1 sec.  
 1 velocity layer  
 AB switch: crescendo/diminuendo

**02 PTR\_dyn\_Vib\_1'5s****Samples: 54****RAM: 3 MB**

Crescendo and diminuendo, with vibrato, 1.5 sec.  
 1 velocity layer  
 AB switch: crescendo/diminuendo

**03 PTR\_dyn\_Vib\_2s****Range: C4–D#6****Samples: 50****RAM: 3 MB**

Crescendo and diminuendo, with vibrato, 2 sec.  
 1 velocity layer  
 AB switch: crescendo/diminuendo

**04 PTR\_dyn\_Vib\_3s****Range: C4–D#6****Samples: 50****RAM: 3 MB**

Crescendo and diminuendo, with vibrato, 3 sec.  
 1 velocity layer  
 AB switch: crescendo/diminuendo

**05 PTR\_dyn\_Vib\_5s****Range: C4–D#6****Samples: 50****RAM: 3 MB**

Crescendo and diminuendo, with vibrato, 5 sec.  
 1 velocity layer  
 AB switch: crescendo/diminuendo

**11 PTR\_dyn\_noVib\_1s****Samples: 56****RAM: 3 MB**

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

**12 PTR\_dyn\_noVib\_1'5s****Samples: 56****RAM: 3 MB**

Crescendo and diminuendo, without vibrato, 1.5 sec.  
 1 velocity layer  
 AB switch: crescendo/diminuendo

**13 PTR\_dyn\_noVib\_2s****Samples: 56****RAM: 3 MB**

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

**14 PTR\_dyn\_noVib\_3s****Samples: 56****RAM: 3 MB**

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

<b>15 PTr_dyn_noVib_4s</b>	<b>Range: C4–E6</b>	<b>Samples: 52</b>	<b>RAM: 3 MB</b>
Crescendo and diminuendo, without vibrato, 4 sec. 1 velocity layer AB switch: crescendo/diminuendo			
<b>16 PTr_dyn_noVib_6s</b>	<b>Range: C4–E6</b>	<b>Samples: 52</b>	<b>RAM: 3 MB</b>
Crescendo and diminuendo, without vibrato, 6 sec. 1 velocity layer AB switch: crescendo/diminuendo			
<b>21 PTr_pfp_Vib_5s</b>	<b>Range: C4–D6</b>	<b>Samples: 23</b>	<b>RAM: 1 MB</b>
Crescendo-diminuendo with vibrato, 5 sec. 1 velocity layer			
<b>22 PTr_pfp_Vib_9s</b>	<b>Range: C4–D6</b>	<b>Samples: 23</b>	<b>RAM: 1 MB</b>
Crescendo-diminuendo with vibrato, 9 sec. 1 velocity layer			
<b>23 PTr_pfp_noVib_4s</b>	<b>Range: C4–D6</b>	<b>Samples: 23</b>	<b>RAM: 1 MB</b>
Crescendo-diminuendo without vibrato, 4 sec. 1 velocity layer			
<b>24 PTr_pfp_noVib_8s</b>	<b>Range: C4–E6</b>	<b>Samples: 25</b>	<b>RAM: 1 MB</b>
Crescendo-diminuendo without vibrato, 8 sec. 1 velocity layer			
<b>25 PTr_pfp_noVib_12s</b>	<b>Range: C4–E6</b>	<b>Samples: 25</b>	<b>RAM: 1 MB</b>
Crescendo-diminuendo without vibrato, 12 sec. 1 velocity layer			
<b>31 PTr_fp</b>		<b>Samples: 28</b>	<b>RAM: 1 MB</b>
Fortepiano 1 velocity layer 2 Alternations			
<b>32 PTr_sfz</b>		<b>Samples: 28</b>	<b>RAM: 1 MB</b>
Sforzato 1 velocity layer 2 Alternations			

<b>03 FLATTER + TRILLS</b>		<b>Range: C4–D6</b>	
<b>01 PTr_flutter</b>	<b>Range: C4–A#5</b>	<b>Samples: 38</b>	<b>RAM: 2 MB</b>
Flutter tonguing 1 velocity layer Release samples			
<b>02 PTr_flutter_cre</b>	<b>Range: C4–A#5</b>	<b>Samples: 20</b>	<b>RAM: 1 MB</b>
Flutter tonguing, crescendo 1 velocity layer			
<b>11 PTr_trill-slow_1</b>		<b>Samples: 94</b>	<b>RAM: 5 MB</b>
Trills, slow, minor 2nd 2 velocity layers Release samples			
<b>12 PTr_trill-slow_2</b>		<b>Samples: 92</b>	<b>RAM: 5 MB</b>
Trills, slow, major 2nd 2 velocity layers Release samples			
<b>13 PTr_trill-fast_1</b>		<b>Samples: 92</b>	<b>RAM: 5 MB</b>
Trills, fast, minor 2nd 2 velocity layers Release samples			
<b>14 PTr_trill-fast_2</b>		<b>Samples: 92</b>	<b>RAM: 5 MB</b>
Trills, fast, major 2nd 2 velocity layers Release samples			
<b>15 PTr_trill-acc_1</b>		<b>Samples: 92</b>	<b>RAM: 5 MB</b>
Trills accelerando, minor 2nd 2 velocity layers Release samples			
<b>16 PTr_trill-acc_2</b>		<b>Samples: 92</b>	<b>RAM: 5 MB</b>
Trills accelerando, major 2nd 2 velocity layers Release samples			



**10 PERF INTERVAL**

Range: C4–F6

**01 PTR\_perf-legato\_noVib**

Samples: 617

RAM: 38 MB

Legato without vibrato  
2 velocity layers  
Release samples

**02 PTR\_perf-legato\_noVib\_sus**

Samples: 617

RAM: 38 MB

Legato without vibrato  
Sustain crossfading  
2 velocity layers  
Release samples

**03 PTR\_perf-legato\_Vib**

Samples: 613

RAM: 38 MB

Legato, with vibrato  
2 velocity layers  
Release samples

**04 PTR\_perf-legato\_Vib\_sus**

Samples: 613

RAM: 38 MB

Legato, with vibrato  
Sustain crossfading  
2 velocity layers  
Release samples

**05 PTR\_perf-marcato**

Range: C4–E6

Samples: 666

RAM: 41 MB

Marcato  
2 velocity layers  
Release samples

**11 PERF INTERVAL FAST****01 PTR\_perf-legato\_fa**

Range: C4–F6

Samples: 723

RAM: 45 MB

Legato, fast  
2 velocity layers  
Release samples

**02 PTR\_perf-marcato\_fa**

Range: C4–E6

Samples: 766

RAM: 47 MB

Marcato, fast  
2 velocity layers  
Release samples

**12 PERF TRILL****Range: C4–F6****01 PTr\_perf-trill****Samples: 1161 RAM: 72 MB**

Performance trills, legato, minor to major 2nd  
 2 velocity layers  
 Release samples

**13 PERF REPETITION****01 PTr\_perf-rep\_leg-sl****Range: C4–F6****Samples: 150****RAM: 9 MB**

Repetition performances: Legato, slow  
 2 velocity layers

**02 PTr\_perf-rep\_leg-fa****Range: C4–F6****Samples: 180****RAM: 11 MB**

Repetition performances: Legato, fast  
 2 velocity layers

**03 PTr\_perf-rep\_por****Range: C4–E6****Samples: 216****RAM: 13 MB**

Repetition performances: Portato  
 2 velocity layers

**04 PTr\_perf-rep\_sta****Range: C4–E6****Samples: 216****RAM: 13 MB**

Repetition performances: Staccato  
 2 velocity layers

**21 PTr\_perf-rep\_dyn6\_leg-sl****Range: C4–D6****Samples: 150****RAM: 9 MB**

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

**22 PTr\_perf-rep\_dyn6\_leg-fa****Range: C4–D6****Samples: 144****RAM: 9 MB**

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

**23 PTr\_perf-rep\_dyn9\_sta****Range: C4–E6****Samples: 216****RAM: 13 MB**

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

**14 FAST REPETITION**

Range: D4–E6

**01 PTr\_fast-rep\_140 (150/160/170/180/200)**

Samples: 88

RAM: 5 MB

Fast repetitions: 140–180, and 200 BPM  
 2 velocity layers  
 Release samples

**11 PTr\_fast-rep\_140\_dyn (150/160/170/180/200)**

Samples: 44

RAM: 2 MB

Fast repetitions: Dynamics, 140–180, and 200 BPM  
 1 velocity layer  
 AB switch: crescendo/diminuendo

**15 UPBEAT REPETITION****A Single Upbeat**

Range: D4–F6

**01 PTr\_UB-a1\_80 (90/100/110/120/130/140/160/180/200)**

Samples: 50

RAM: 3 MB

1 upbeat, 80–140, 160, 180, and 200 BPM  
 2 velocity layers

**B Double Upbeats**

Range: D4–F6

**02 PTr\_UB-a2\_90 (100/110/120/130/140/160/180/200)**

Samples: 48

RAM: 3 MB

2 upbeats, 90–140, 160, 180, and 200 BPM  
 2 velocity layers

**C Triple Upbeats**

Range: D4–F6

**01 PTr\_UB-a3\_80 (90/100/110/120/130/140/160/180/200)**

Samples: 48

RAM: 3 MB

3 upbeats, 80–140, 160, 180, and 200 BPM  
 2 velocity layers

**16 GRACE NOTES**

Range: C4–F6

**01 PTR\_grace-1**

Samples: 166

RAM: 10 MB

Grace notes, minor 2nd  
 2 velocity layers  
 Release samples  
 AB switch: up/down

**02 PTR\_grace-2**

Samples: 162

RAM: 10 MB

Grace notes, major 2nd  
 2 velocity layers  
 Release samples  
 AB switch: up/down

**17 SCALE RUNS**

Please note that upward runs can be played only to an octave below the upper play range, downward runs to an octave above the lower play range. The octave runs are mapped diatonically according to their scale.  
 For the playing ranges and mappings of individual scales, please see the appendix.

**Legato major****01 PTR\_run-leg\_C-ma (through to B-ma)**

Samples: 16

RAM: 1 MB

Octave runs, legato, C to B major  
 1 velocity layer  
 AB switch: up/down

**18 MORDENTS**

The samples are mapped to their target notes.

var. 1                      var. 2                      var. 3

var. 4                      var. 5                      var. 6

**01 PTR\_mord-leg\_v1**

Range: C4–D6

Samples: 48

RAM: 3 MB

Mordents, legato  
 Single mordent, minor 2nd  
 2 velocity layers  
 AB switch: up/down

<b>02 PTr_mord-leg_v2</b>	<b>Range: C4–D#6</b>	<b>Samples: 48</b>	<b>RAM: 3 MB</b>
Mordents, legato Single mordent, major 2nd 2 velocity layers AB switch: up/down			
<b>03 PTr_mord-leg_v3</b>	<b>Range: C4–D#6</b>	<b>Samples: 48</b>	<b>RAM: 3 MB</b>
Mordents, legato Minor 2nd - minor 2nd 2 velocity layers AB switch: up/down			
<b>04 PTr_mord-leg_v4</b>	<b>Range: C4–E6</b>	<b>Samples: 48</b>	<b>RAM: 3 MB</b>
Mordents, legato Minor 2nd - major 2nd 2 velocity layers AB switch: up/down			
<b>05 PTr_mord-leg_v5</b>	<b>Range: C4–E6</b>	<b>Samples: 48</b>	<b>RAM: 3 MB</b>
Mordents, legato Major 2nd - minor 2nd 2 velocity layers AB switch: up/down			
<b>06 PTr_mord-leg_v6</b>	<b>Range: C4–F6</b>	<b>Samples: 48</b>	<b>RAM: 3 MB</b>
Mordents, legato Major 2nd - major 2nd 2 velocity layers AB switch: up/down			

## 98 RESOURCES

Isolated dynamics repetitions: Legato slow and fast, staccato  
Single layer long notes

<b>01 Perf Rep dyn</b>	<b>Range: C4–D6</b>		
<b>01 PTr_rep_cre6_leg-sl-1 (2/3/4/5/6)</b>		<b>Samples: 13</b>	<b>RAM: 1 MB</b>
Extracted repetitions Legato, slow, crescendo, 1st to 6th note 1 velocity layer			
<b>01 PTr_rep_dim6_leg-sl-1 (2/3/4/5/6)</b>		<b>Samples: 12</b>	<b>RAM: 1 MB</b>
Extracted repetitions Legato, slow, diminuendo, 1st to 6th note 1 velocity layer			
<b>02 PTr_rep_cre6_leg-fa-1 (2/3/4/5/6)</b>		<b>Samples: 12</b>	<b>RAM: 1 MB</b>
Extracted repetitions Legato, fast, crescendo, 1st to 6th note 1 velocity layer			

<b>02 PTR_rep_dim6_leg-fa-1 (2/3/4/5/6)</b>		<b>Samples: 12</b>	<b>RAM: 1 MB</b>
Extracted repetitions Legato, fast, diminuendo, 1st to 6th note 1 velocity layer			
<b>04 PTR_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)</b>	<b>Range: C4-E6</b>	<b>Samples: 12</b>	<b>RAM: 1 MB</b>
Extracted repetitions: Staccato, crescendo, 1st to 9th note 1 velocity layer			
<b>04 PTR_rep_dim9_sta-1 (2/3/4/5/6/7/8/9)</b>	<b>Range: C4-E6</b>	<b>Samples: 12</b>	<b>RAM: 1 MB</b>
Extracted repetitions: Staccato, diminuendo, 1st to 9th note 1 velocity layer			
<b>02 Long Notes - Single Layer</b>		<b>Range: C4-F6</b>	
<b>01 PTR_sus_p_noVib</b>		<b>Samples: 56</b>	<b>RAM: 3 MB</b>
Sustained, piano, without vibrato 1 velocity layer Release samples			
<b>02 PTR_sus_mf_noVib</b>		<b>Samples: 56</b>	<b>RAM: 3 MB</b>
Sustained, mezzoforte, without vibrato 1 velocity layer Release samples			
<b>03 PTR_sus_f_noVib</b>		<b>Samples: 53</b>	<b>RAM: 3 MB</b>
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 PTr Articulation Combi

**Samples: 914    RAM: 57 MB**

Single note articulations

Staccato, portato short, sustained with light and without vibrato, crescendo-diminuendo with vibrato 5 and 9 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. 5s.	fp	flutter	trill fast half
V2	port. short	sus no vib.	pfp vib. 9s.	sfz	flutter cres.	trill fast whole

### L1 PTr Perf-Legato Speed

**Samples: 827    RAM: 51 MB**

Interval performances

Legato with sustain crossfading, normal without vibrato, and fast

Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

	H1	H2	H3
legato	sus-XF	normal no vib.	fast

### L1 PTr Perf-Repetitions Combi

**Samples: 582    RAM: 36 MB**

Repetition performances

Legato slow

Portato

Staccato

**Matrix switches:** Vertical: Modwheel, 3 zones

	repetitions
V1	legato slow
V2	portato
V3	staccato

## Matrix - LEVEL 2 A - Advanced

### O1 PTr Perf-Universal

**Samples: 1616    RAM: 101 MB**

Interval performances

Legato without vibrato, sustain crossfading, normal, and fast

Marcato normal and fast

Speed controller

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

	H1	H2	H3
legato no vib.	slow	normal	fast
marcato	normal	normal	fast

**02 PTr Perf-Trill Speed****Samples: 1265 RAM: 79 MB**

Multi interval performances  
 Legato without vibrato, and trills  
 Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

**03 PTr Short+Long notes - All****Samples: 1141 RAM: 71 MB**

Single notes  
 Staccato, portato short and medium, portato long with soft attack and light vibrato, and normal with 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 PTr Perf-Legato Speed****Samples: 827 RAM: 51 MB**

Interval performances  
 Legato with sustain crossfading, normal without vibrato, and fast  
 Speed controller

**Matrix switches:** Horizontal: Speed, 3 zones

	H1	H2	H3
legato	sus-XF	normal no vib.	fast

**12 PTr Perf-Marcato Speed****Samples: 870 RAM: 54 MB**

Interval performances^mMarcato normal and fast  
 Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones

	H1	H2
marcato	normal	fast

**13 PTr Short notes****Samples: 836 RAM: 52 MB**

Single notes  
 Staccato, portato short and medium, portato long with soft attack and light vibrato, portato long with normal attack, with 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 PTr Long notes - All****Samples: 389**    **RAM: 24 MB**

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 PTr Dynamics - Small****Samples: 206**    **RAM: 12 MB**

Dynamics

Crescendo and diminuendo with vibrato, 2, 3, and 5 sec.

Fortepiano and sforzato

**Matrix switches:** Horizontal: Keyswitches, C1–D1    Vertical: Modwheel, 3 zones

	C1	C#1	D1
dyn. vib.	2 sec.	3 sec.	5 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

**16 PTr Dynamics - Large****Samples: 599**    **RAM: 37 MB**

Dynamics

Crescendo and diminuendo with and without vibrato, 1.5, 2, 3, and 5 (4) sec.

Crescendo-diminuendo with vibrato, 5 and 9 sec.

Crescendo-diminuendo without vibrato, 4, 8, and 12 sec.

Fortepiano and sforzato

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

	C1	C#1	D1	D#1
dyn. vib.	1.5 sec.	2 sec.	3 sec.	5 sec.
dyn. no vib.	1.5 sec.	2 sec.	3 sec.	4 sec.
pfp vib.	5 sec.	5 sec.	9 sec.	9 sec.
pfp no vib.	4 sec.	8 sec.	12 sec.	12 sec.
fp/sfz	fp	fp	sfz	sfz

**17 PTr Flutter****Samples: 58**    **RAM: 3 MB**

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 PTr Trills - slow****Samples: 186**    **RAM: 11 MB**

Trills, slow: Half and whole tone

**Matrix switches:** Vertical: Modwheel, 2 zones

	trills slow
V1	half tone
V2	whole tone

**19 PTr Trills - fast****Samples: 184**   **RAM: 11 MB**

Trills, fast: Half and whole tone

**Matrix switches:** Vertical: Modwheel, 2 zones

	trills fast
V1	half tone
V2	whole tone

**20 PTr Trills - accelerando****Samples: 184**   **RAM: 11 MB**

Trills, accelerando: Half and whole tone

**Matrix switches:** Vertical: Modwheel, 2 zones

	trills accel.
V1	half tone
V2	whole tone

**21 PTr Trills - All****Samples: 554**   **RAM: 34 MB**

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 PTr Perf-Repetitions - Combi****Samples: 762**   **RAM: 47 MB**

Repetition performances

Slow and fast legato, portato, staccato

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

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

**32 PTr Perf-Repetitions - Speed****Samples: 762**   **RAM: 47 MB**

Repetition performances

Slow and fast legato, portato, staccato

Speed controller

**Matrix switches:** Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato slow	legato fast	portato	staccato

**33 PTr Fast-Repetitions****Samples: 348**   **RAM: 21 MB**

Fast repetitions: Staccato, 140–180, and 200 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	140	150	160	170	180	200

**34 PTr Upbeats a1****Samples: 488 RAM: 30 MB**

Repetitions: 1 upbeat, 80–140, 160, 180, 200 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–A1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
speed/BPM	80	90	100	110	120	130	140	160	180	200

**35 PTr Upbeats a2****Samples: 480 RAM: 30 MB**

Repetitions: 2 upbeats, 80–140, 160, 180, 200 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–A1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
speed/BPM	80	90	100	110	120	130	140	160	180	200

**36 PTr Upbeats a3****Samples: 480 RAM: 30 MB**

Repetitions: 3 upbeats, 80–140, 160, 180, 200 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–A1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
speed/BPM	80	90	100	110	120	130	140	160	180	200

**37 PTr Upbeats all****Samples: 1448 RAM: 90 MB**

Repetitions: 1–3 upbeats, 80–140, 160, 180, 200 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–A1      Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
1 upbeat	80	90	100	110	120	130	140	160	180	200
2 upbeats	80	90	100	110	120	130	140	160	180	200
3 upbeats	80	90	100	110	120	130	140	160	180	200

**Matrix - LEVEL 2 D - Scale+Phrase****41 PTr Scale runs-legato - Major****Samples: 93 RAM: 5 MB**

Octave runs, legato, 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 PTr Mordents-legato****Samples: 288 RAM: 18 MB**

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

**52 PTr Grace notes - All****Samples: 166 RAM: 10 MB**

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 PTr Legato slow - cre6****Samples: 78****RAM: 4 MB**

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 PTr Legato fast - cre6****Samples: 72****RAM: 4 MB**

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 PTr Staccato - cre9****Samples: 108****RAM: 6 MB**

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 PTr Combi - cre6****Samples: 150****RAM: 9 MB**

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	%	%	%	%	%

**75 PTr Legato slow - dim6****Samples: 72****RAM: 4 MB**

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

**76 PTr Legato fast - dim6****Samples: 72****RAM: 4 MB**

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

**77 PTr Staccato - dim9****Samples: 108 RAM: 6 MB**

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 PTr Combi - dim6****Samples: 144 RAM: 9 MB**

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	%	%	%	%	%

**Presets****PTr VSL Preset Level 1****Samples: 2214 RAM: 138 MB**

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

**PTr VSL Preset Level 2****Samples: 3912 RAM: 244 MB**

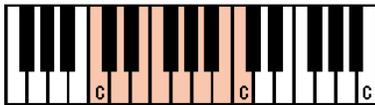
01 PTr Perf-Universal  
02 PTr Perf-Trill Speed  
L1 PTr Articulation Combi  
31 PTr Perf-Repetitions - Combi  
73 PTr Staccato - cre9  
**Preset keyswitches:** C2–E2

# Appendix

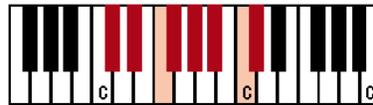
In the following, you will find notations and keyboard layout graphics for major scale runs, as well as a list of playing ranges for the piccolo trumpet's runs.

## Scale runs - major

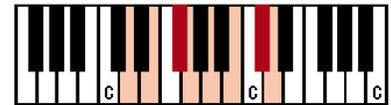
C major



C#/Db major



D major



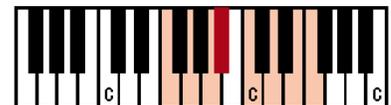
D#/Eb major



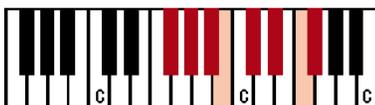
E major



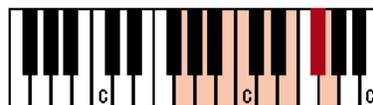
F major



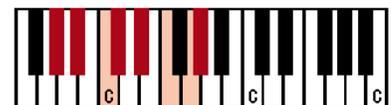
F#/Gb major



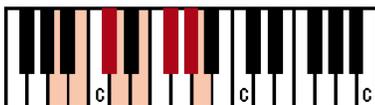
G major



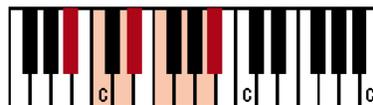
G#/Ab major



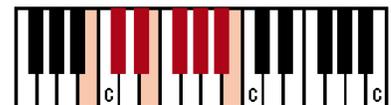
A major



A#/Bb major



B major



## Scale ranges

### Octave runs

<b>Legato major</b>	<b>play range</b>
01 PTr_run-leg_C-ma	D4–D6
02 PTr_run-leg_C#-ma	D#4–D#6
03 PTr_run-leg_D-ma	D4–C#6
04 PTr_run-leg_D#-ma	D#4–D6
05 PTr_run-leg_E-ma	C#4–C#6
06 PTr_run-leg_F-ma	D4–D6
07 PTr_run-leg_F#-ma	C#4–C#6
08 PTr_run-leg_G-ma	D4–D6
09 PTr_run-leg_G#-ma	C#4–C#6
10 PTr_run-leg_A-ma	D4–D6
11 PTr_run-leg_A#-ma	D4–C6
12 PTr_run-leg_B-ma	D#4–D#6