# Vienna Instruments
# Special Woodwinds

## Bass Flute
## Oboe d'Amore
## Heckelphone
## Contrabass Clarinet
## Basset Horn

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# Introduction

Welcome to the Vienna Symphonic Library's Special Woodwinds. 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.

The 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. The Patch information also lists the velocity layers in detail.

## Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments Collections. 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 also used for other articulations like the strings' portamento (which are also included in the Special Edition), marcato, or détaché and spiccato.

The interval performances also contain 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 naturally, 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.

A variety of interval performance you will also find in your Collection are "perf-leg_sus" Patches. These are normal legatos, too, 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.

**Multi interval performances** are a special kind of interval performance which combines legatos and repetitions. They are used for performance trills, but also for very fast legato phrases. The trills were mostly recorded for intervals from minor 2nd to major 3rd, with 6 repetitions each (which explains why they all have so many samples), so that the trill won't get boring after just four notes ... The other intervals up to the octave are fast legatos, so that you can play them like other interval performances.

## Repetition performances

Unlike our fast repetitions, which only can be played at the speed they were recorded at and have a fixed number of 9 repeated notes, repetition performances allow you to cover a wide area of speeds from slow legato to very fast staccato. Like the legatos, the repetitions were recorded in one go and then cut up into discreet samples. The Vienna Instrument joins them again when you play, so that you have an unlimited supply of repetitions. Dynamics repetitions, however, are still limited in number (legatos and some portatos 5, other portatos and staccatos 9) since you cannot get louder or softer endlessly …

# 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 the contrabass clarinet dynamics Matrix are A5 and B5 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 101–112 instead of keyboard notes.

# Articulations

| Instrument/Group | Level 1 (Standard) content | Level 2 (Extended) content |
|---|---|---|
| | | |
| **34 Bass Flute** | | |
| 01 SHORT + LONG NOTES | Staccato<br>Portato short<br>Sustained with vibrato | Portato medium with vibrato<br>Sustained without vibrato |
| 02 DYNAMICS | Fortepiano and sforzato, with vibrato | Medium dynamics with vibrato, 1/2/4 sec.<br>Medium dynamics without vibrato, 1.5/2/4 sec.<br>Strong dynamics without vibrato, 1.5/2/3/4 sec.<br>Crescendo-diminuendo with vibrato, 3/6/8 sec.<br>Crescendo-diminuendo without vibrato, 2/3/4/6 sec.<br>Sforzatissimo with vibrato<br>Fortepiano, sforzato, sforzatissimo without vibrato |
| 03 FLATTER | Flutter tonguing, normal and crescendo | |
| 10 PERF INTERVAL | Legato | Marcato |
| 11 PERF INTERVAL FAST | Legato | Marcato |
| 12 PERF TRILL | | Trills, legato, minor 2nd to major 3rd |
| 13 PERF REPETITION | | Legato<br>Portato<br>Staccato<br>Normal and dynamics |
| 14 FAST REPETITION | | Staccato, 120 to 180 BPM<br>Normal and dynamics |

| Instrument/Group | Level 1 (Standard) content | Level 2 (Extended) content |
|---|---|---|
| **35 Oboe d'Amore** | | |
| 01 SHORT + LONG NOTES | Staccato<br>Portato short<br>Sustained with vibrato | Portato medium<br>Portato long with and without vibrato<br>Sustained without vibrato |
| 02 DYNAMICS | Fortepiano and sforzato with vibrato | Medium dynamics with and without vibrato, 1.5/2/3/4 sec.<br>Strong dynamics with vibrato, 3/4 sec.<br>Strong dynamics without vibrato, 2/3/4 sec.<br>Crescendo-diminuendo with vibrato, 2/4/10 sec.<br>Crescendo-diminuendo without vibrato, 2/3/4 sec.<br>Sforzatissimo with vibrato<br>Fortepiano, sforzato, sforzatissimo without vibrato |
| 03 FLATTER | Flutter tonguing, normal and crescendo | |
| 10 PERF INTERVAL | Legato | Marcato |
| 11 PERF INTERVAL FAST | Legato | Marcato |
| 12 PERF TRILL | | Trills, legato, minor 2nd to major 3rd |
| 13 PERF REPETITION | | Legato<br>Portato<br>Staccato<br>Normal and dynamics |
| 14 FAST REPETITION | | Staccato, 120 to 180 BPM<br>Normal and dynamics |
| **38 Heckelphone** | | |
| 01 SHORT + LONG NOTES | Staccato<br>Portato short<br>Sustained with vibrato | Portato medium with vibrato<br>Sustained without vibrato |
| 02 DYNAMICS | Fortepiano and sforzato, with vibrato | Medium dynamics with vibrato, 1.5/2/3/5 sec.<br>Strong dynamics without vibrato, 1.5/2/3/4/6 sec.<br>Crescendo-diminuendo with vibrato, 2/3/5/8 sec.<br>Sforzatissimo with vibrato |
| 03 FLATTER | Flutter tonguing | |
| 10 PERF INTERVAL | Legato | Marcato |
| 11 PERF INTERVAL FAST | Legato | Marcato |
| 12 PERF TRILL | | Trills, legato, minor 2nd to major 3rd |
| 13 PERF REPETITION | | Legato<br>Portato<br>Staccato<br>Normal and dynamics |
| **41 Contrabass Clarinet** | | |
| 01 SHORT + LONG NOTES | Staccato<br>Portato<br>Sustained | |
| 02 DYNAMICS | Fortepiano and sforzato | Medium dynamics, 1.5/2/3/4/6 sec.<br>Crescendo-diminuendo, 2/3/4/6/8 sec.<br>Sforzatissimo |
| 03 FLATTER | Flutter tonguing, normal and crescendo | |
| 10 PERF INTERVAL | Legato | Marcato |
| 11 PERF INTERVAL FAST | Legato | Marcato |
| 12 PERF TRILL | | Trills, legato, minor 2nd to major 3rd |

| Instrument/Group | Level 1 (Standard) content | Level 2 (Extended) content |
|---|---|---|
| | | |
| **13 PERF REPETITION** | | Legato<br>Portato<br>Staccato<br>Normal and dynamics |
| **42 Basset Horn** | | |
| **01 SHORT + LONG NOTES** | Staccato<br>Portato short<br>Sustained | Portato medium<br>Portato long with soft and hard attack |
| **02 DYNAMICS** | Fortepiano and sforzato | Medium dynamics, 1.5/2/3/4 sec.<br>Strong dynamics, 1.5/2/3/4/6 sec.<br>Crescendo-diminuendo, 2/3/4/6/8 sec.<br>Sforzatissimo |
| **03 FLATTER** | Flutter tonguing, normal and crescendo | |
| **10 PERF INTERVAL** | Legato | Marcato |
| **11 PERF INTERVAL FAST** | Legato | Marcato |
| **12 PERF TRILL** | | Trills, legato, minor 2nd to major 3rd |
| **13 PERF REPETITION** | | Legato<br>Portato<br>Staccato<br>Normal and dynamics |
| **14 FAST REPETITION** | | Staccato, 120 to 180 BPM<br>Normal and dynamics |

# Abbreviations

## Instruments

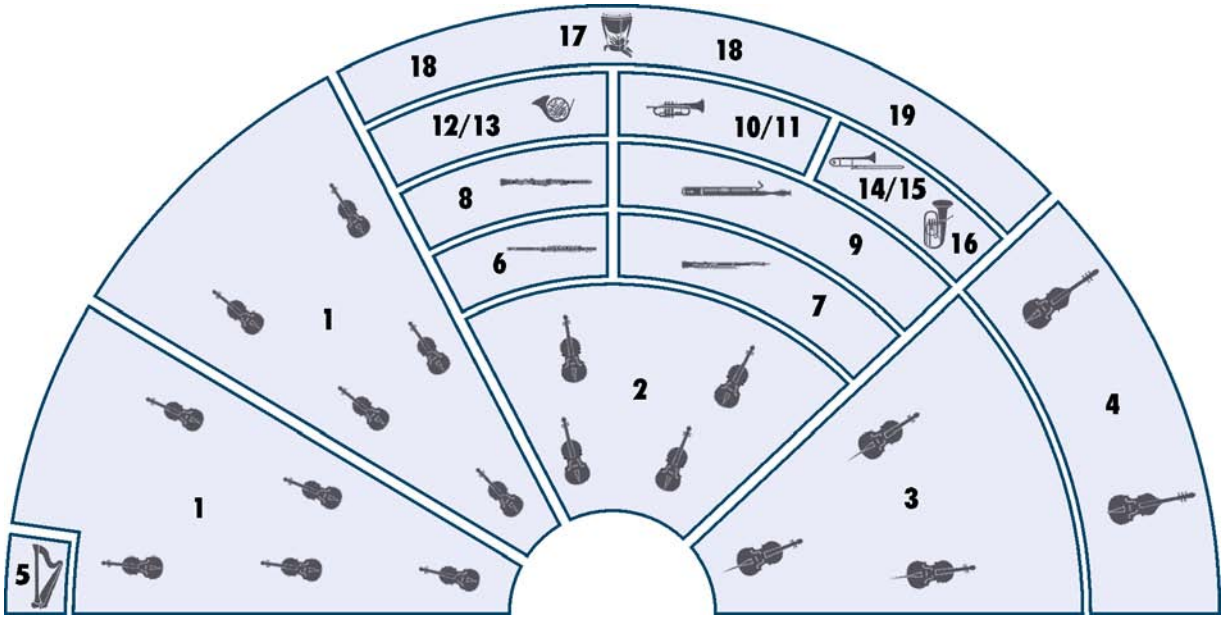
| Abbreviation | English | German |
|---|---|---|
| CCL | Contrabass clarinet | Kontrabassklarinette |
| HPH | Heckelphone | Heckelphon |
| BH | Basset horn | Bassetthorn |
| OdA | Oboe d'Amore | Oboe d'Amore |
| BFL | Bass flute | Bassflöte |

## Articulations and other abbreviations

| Abbreviation | Meaning | Abbreviation | Meaning |
|---|---|---|---|
| 150, 160, … | 150, 160, … BPM (beats per minute) | leg | legato |
| 1s, 2s, … | 1 sec., 2.sec. … duration | lo | long |
| all | combination of all Patches of a category | me | medium |
| | | nA | normal attack |
| cre | crescendo | noVib | without vibrato |
| cre5, cre9 | crescendo, 5/9 repetitions | perf-rep | repetition performance |
| dim | diminuendo | por | portato |
| dim5, dim9 | diminuendo, 5/9 repetitions | RS | release sample |
| dyn | dynamics (crescendo and diminuendo) | sA | soft attack |
| | | sl | slow |
| dyn5, dyn9 | dynamics, 5/9 repetitions | sta, stac | staccato |
| fa | fast | str | strong |
| fast-rep | fast repetitions | sus | sustained |
| flatter | flutter tonguing | Vib | with (medium) vibrato |
| hA | hard attack | 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.

# 34 Bass Flute

## Patches

### 01 SHORT + LONG NOTES — Range: A#2–C6

Single notes
**Level 1:** Staccato
Portato short
Sustained with vibrato
**Level 2:** Portato medium with vibrato
Sustained without vibrato

**01 BFL_staccato** — **Samples: 222** **RAM: 13 MB** **Level 1**

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

**02 BFL_portato_short** — **Samples: 222** **RAM: 13 MB** **Level 1**

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

**03 BFL_portato_medium** — **Samples: 222** **RAM: 13 MB** **Level 2**

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

**11 BFL_sus_Vib** — **Samples: 222** **RAM: 13 MB** **Level 1**

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

**12 BFL_sus_noVib** — **Samples: 148** **RAM: 9 MB** **Level 2**

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

## 02 DYNAMICS — Range: A#2–C6

Single notes

**Level 1:** Fortepiano and sforzato, with vibrato

**Level 2:** Medium dynamics with vibrato, 1/2/4 sec.
Medium dynamics without vibrato, 1.5/2/4 sec.
Strong dynamics without vibrato, 1.5/2/3/4 sec.
Crescendo-diminuendo with vibrato, 3/6/8 sec.
Crescendo-diminuendo without vibrato, 2/3/4/6 sec.
Sforzatissimo with vibrato
Fortepiano, sforzato, sforzatissimo without vibrato

---

**01 BFL_dyn-me_Vib_1s** — **Samples: 76** — **RAM: 4 MB** — **Level 2**

Medium crescendo and diminuendo with vibrato, 1 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

---

**02 BFL_dyn-me_Vib_2s** — **Samples: 76** — **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 BFL_dyn-me_Vib_4s** — **Samples: 76** — **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

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**11 BFL_dyn-me_noVib_1'5s** — **Samples: 76** — **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 BFL_dyn-me_noVib_2s** — **Samples: 76** — **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 BFL_dyn-me_noVib_4s** — **Samples: 76** — **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 BFL_dyn-str_noVib_1'5s** — **Samples: 38** — **RAM: 2 MB** — **Level 2**

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

---

**22 BFL_dyn-str_noVib_2s** — **Samples: 38** — **RAM: 2 MB** — **Level 2**

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

**23 BFL_dyn-str_noVib_3s** **Samples: 38** **RAM: 2 MB** **Level 2**

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

**24 BFL_dyn-str_noVib_4s** **Samples: 38** **RAM: 2 MB** **Level 2**

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

**31 BFL_pfp_Vib_3s** **Samples: 38** **RAM: 2 MB** **Level 2**

Crescendo-diminuendo with vibrato, 3 sec.
2 velocity layers: 0–88 p; 89–127 f

**32 BFL_pfp_Vib_6s** **Samples: 38** **RAM: 2 MB** **Level 2**

Crescendo-diminuendo with vibrato, 6 sec.
2 velocity layers: 0–88 p; 89–127 f

**33 BFL_pfp_Vib_8s** **Samples: 19** **RAM: 1 MB** **Level 2**

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

**41 BFL_pfp_noVib_2s** **Samples: 38** **RAM: 2 MB** **Level 2**

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

**42 BFL_pfp_noVib_3s** **Samples: 38** **RAM: 2 MB** **Level 2**

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

**43 BFL_pfp_noVib_4s** **Samples: 38** **RAM: 2 MB** **Level 2**

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

**44 BFL_pfp_noVib_6s** **Samples: 38** **RAM: 2 MB** **Level 2**

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

**51 BFL_fp_Vib** **Samples: 19** **RAM: 1 MB** **Level 1**

Fortepiano, with vibrato
1 velocity layer

**52 BFL_sfz_Vib** **Samples: 19** **RAM: 1 MB** **Level 1**

Sforzato, with vibrato
1 velocity layer

**53 BFL_sffz_Vib** **Samples: 19** **RAM: 1 MB** **Level 2**

Sforzatissimo, with vibrato
1 velocity layer

**61 BFL_fp_noVib** **Samples: 19** **RAM: 1 MB** **Level 2**

Fortepiano, without vibrato
1 velocity layer

**62 BFL_sfz_noVib** **Samples: 19** **RAM: 1 MB** **Level 2**

Sforzato, without vibrato
1 velocity layer

**63 BFL_sffz_noVib** **Samples: 19** **RAM: 1 MB** **Level 2**

Sforzatissimo, without vibrato
1 velocity layer

## 03 FLATTER **Range: A#2–C6**

Single notes
**Level 1:** Flutter tonguing, normal and crescendo

**01 BFL_flatter** **Samples: 74** **RAM: 4 MB** **Level 1**

Flutter tonguing, forte
1 velocity layer
Release samples

**02 BFL_flatter_cre** **Samples: 37** **RAM: 2 MB** **Level 1**

Flutter tonguing, crescendo
1 velocity layer

## 10 PERF INTERVAL

Interval performances
**Level 1:** Legato
**Level 2:** Marcato

**01 BFL_perf-legato** **Range: A#2–A#5** **Samples: 965** **RAM: 60 MB** **Level 1**

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

**02 BFL_perf-marcato** **Range: A#2–B5** **Samples: 966** **RAM: 60 MB** **Level 2**

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

## 11 PERF INTERVAL FAST — Range: A#2–A#5

Fast interval performances
**Level 1:** Legato
**Level 2:** Marcato

### 01 BFL_perf-legato_fa — Samples: 1025 RAM: 64 MB — Level 1

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

### 02 BFL_perf-marcato_fa — Samples: 1024 RAM: 64 MB — Level 2

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

## 12 PERF TRILL — Range: A#2–A#5

Multi interval performances
**Level 2:** Trills, legato, minor 2nd to major 3rd

### 01 BFL_perf-trill — Samples: 2364 RAM: 147 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: A#2–C6

Repetition performances
**Level 2:** Legato
Portato
Staccato
Normal and dynamics

### 01 BFL_perf-rep_leg — Samples: 190 RAM: 11 MB — Level 2

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

### 02 BFL_perf-rep_por — Samples: 342 RAM: 21 MB — Level 2

Repetition performances: Portato
2 velocity layers: 0–88 p; 89–127 f

### 03 BFL_perf-rep_sta — Samples: 342 RAM: 21 MB — Level 2

Repetition performances: Staccato
2 velocity layers: 0–88 p; 89–127 f

**11 BFL_perf-rep_dyn5_leg** **Range: A#2–B5** **Samples: 190** **RAM: 11 MB** **Level 2**

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

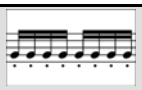
**12 BFL_perf-rep_dyn9_por** **Samples: 342** **RAM: 21 MB** **Level 2**

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

**13 BFL_perf-rep_dyn9_sta** **Samples: 342** **RAM: 21 MB** **Level 2**

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

## 14 FAST REPETITION **Range: A#2–C6**



Fast repetitions
**Level 2:** Staccato, 120 to 180 BPM
Normal and dynamics

**01 BFL_fast-rep_120 (130/140/150/160/170/180)** **Samples: 76** **RAM: 4 MB** **Level 2**

Fast repetitions: Staccato, 9 repetitions, 120–180 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

**11 BFL_fast-rep_120_dyn (130/140/150/160/170/180)** **Samples: 38** **RAM: 2 MB** **Level 2**

Fast repetitions: Staccato, 9 repetitions, 120–180 BPM, crescendo and diminuendo
1 velocity layer
AB switch: crescendo/diminuendo

## 98 RESOURCES

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

## 98 RESOURCES/01 Perf Rep dyn

**01 BFL_rep_cre5_leg-1 (2/3/4/5)** **Range: A#2–B5** **Samples: 19** **RAM: 1 MB** **Level 2**

Extracted repetition
Legato, crescendo, 1st to 5th note
1 velocity layer

**01 BFL_rep_dim5_leg-1 (2/3/4/5)** **Range: A#2–B5** **Samples: 19** **RAM: 1 MB** **Level 2**

Extracted repetition
Legato, diminuendo, 1st to 5th note
1 velocity layer

**02 BFL_rep_cre9_por-1 (2/3/4/5/6/7/8/9)** **Range: A#2–C6** **Samples: 19** **RAM: 1 MB** **Level 2**

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

**02 BFL_rep_dim9_por-1 (2/3/4/5/6/7/8/9)** **Range: A#2–C6** **Samples: 19** **RAM: 1 MB** **Level 2**

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

**03 BFL_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)** **Range: A#2–C6** **Samples: 19** **RAM: 1 MB** **Level 2**

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

**03 BFL_rep_dim9_sta-1 (2/3/4/5/6/7/8/9)** **Range: A#2–C6** **Samples: 19** **RAM: 1 MB** **Level 2**

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

## 98 RESOURCES/02 Long Notes - Single Layer Range: A#2–C6

**01 BFL_sus_p** **Samples: 74** **RAM: 4 MB** **Level 2**

Sustained, piano
1 velocity layer
Release samples

**02 BFL_sus_mf** **Samples: 74** **RAM: 4 MB** **Level 2**

Sustained, mezzoforte
1 velocity layer
Release samples

**03 BFL_sus_f** **Samples: 74** **RAM: 4 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 BFL Articulation Combi

**Samples: 815 RAM: 50 MB** **Level 1**

Single note articulations
Staccato, portato short, sustained with vibrato, fortepiano and sforzato with vibrato, flutter tonguing normal and crescendo

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

| | C1 | C#1 | D1 | D#1 |
|---|---|---|---|---|
| V1 | staccato | sus. vib. | fp vib. | flutter |
| V2 | portato short | sus. vib. | sfz vib. | flutter cres. |

### L1 BFL Perf-Legato Speed

**Samples: 1169 RAM: 73 MB** **Level 1**

Interval performances: Legato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal speed | fast |

## Matrix - LEVEL 2 A - Advanced

### 01 BFL Perf-Universal

**Samples: 2265 RAM: 141 MB** **Level 2**

Interval performances: Legato normal and fast
Marcato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal | fast |
| marcato | normal | fast |

### 02 BFL Perf-Trill Speed

**Samples: 2645 RAM: 165 MB** **Level 2**

Multi interval performances: Legato and trills
Speed controller

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

| | H1 | H2 |
|---|---|---|
| V1 | legato | trills |

### 03 BFL Short+Long notes - All

**Samples: 962 RAM: 60 MB** **Level 2**

Single notes
Staccato
Portato short and medium
Sustained with and without vibrato

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

| | C1 | C#1 | D1 | D#1 |
|---|---|---|---|---|
| V1 | staccato | portato short | portato medium | sus. vib. |
| V2 | % | % | % | sus. no vib. |

## Matrix - LEVEL 2 B - Standard

### 11 BFL Perf-Legato Speed

**Samples: 1169 RAM: 73 MB** **Level 2**

Interval performances: Legato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal speed | fast |

### 12 BFL Perf-Marcato Speed

**Samples: 1170 RAM: 73 MB** **Level 2**

Interval performances: Marcato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| marcato | normal speed | fast |

### 13 BFL Dynamics

**Samples: 608 RAM: 38 MB** **Level 2**

Dynamics
Medium crescendo and diminuendo with and without vibrato 1/1.5, 2, and 4 sec.
Crescendo-diminuendo with vibrato 2, 4, and 8 sec.
Fortepiano, sforzato, sforzatissimo with vibrato

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

| | C1 | C#1 | D1 |
|---|---|---|---|
| V1 | med. dyn. vib. 1 sec. | med. dyn. vib. 2 sec. | med. dyn. vib. 4 sec. |
| V2 | med. dyn. no vib. 1.5 sec. | med. dyn. no vib. 2 sec. | med. dyn. no vib. 4 sec. |
| V3 | pfp vib. 3 sec. | pfp vib. 6 sec. | pfp vib. 8 sec. |
| V4 | fp vib. | sfz vib. | sffz vib. |

### 14 BFL Flatter

**Samples: 111 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

### 21 BFL 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 |

### 22 BFL 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 |

### 23 BFL Fast Repetitions

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

Fast repetitions
Staccato, 9 repetitions: 120, 130, 140, 150, 160, 170, 180 BPM

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

| | C1 | C#1 | D1 | D#1 | E1 | F1 | F#1 |
|---|---|---|---|---|---|---|---|
| speed/BPM | 120 | 130 | 140 | 150 | 160 | 170 | 180 |

## Matrix - LEVEL 2 E - Keyswitch Vel

### 31 BFL 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 |

### 32 BFL 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 |

### 33 BFL 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 |

### 34 BFL 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 | % | % | % | % | % | % | % | % |

### 35 BFL 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 |

### 36 BFL 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 |

### 37 BFL 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 |

### 38 BFL 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

### BFL VSL Preset Level 1 — Samples: 1910 RAM: 119 MB Level 1

L1 BFL Perf-Legato Speed
L1 BFL Articulation Combi
Preset Keyswitches: C2–C#2

### BFL VSL Preset Level 2 — Samples: 5902 RAM: 368 MB Level 2

01 BFL Perf-Universal
02 BFL Perf-Trill Speed
L1 BFL Articulation Combi
21 BFL Perf-Repetitions - Combi
34 BFL Combi - cre9
Preset Keyswitches: C2–E2

# 35 Oboe d'Amore

## Patches

### 01 SHORT + LONG NOTES — Range: G3–E6

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

**01 OdA_staccato** — **Samples: 264** **RAM: 16 MB** **Level 1**

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

**02 OdA_portato_short** — **Samples: 264** **RAM: 16 MB** **Level 1**

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

**03 OdA_portato_medium** — **Samples: 264** **RAM: 16 MB** **Level 2**

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

**04 OdA_portato_lo_sA_Vib** — **Samples: 165** **RAM: 10 MB** **Level 2**

Portato, long, soft attack, with vibrato
3 velocity layers: 0–55 p; 56–88 mp; 89–127 mf
Release samples

**05 OdA_portato_lo_sA_noVib** — **Samples: 165** **RAM: 10 MB** **Level 2**

Portato, long, soft attack, without vibrato
3 velocity layers: 0–55 p; 56–88 mp; 89–127 mf
Release samples

**11 OdA_sus_Vib** — **Samples: 263** **RAM: 16 MB** **Level 1**

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

**12 OdA_sus_noVib** — **Samples: 230** **RAM: 14 MB** **Level 2**

Sustained, without vibrato
3 velocity layers: 0–55 p; 56–108 mp; 109–127 f
Release samples

## 02 DYNAMICS — Range: G3–E6

Single notes

**Level 1:** Fortepiano and sforzato with vibrato

**Level 2:** Medium dynamics with and without vibrato, 1.5/2/3/4 sec.
Strong dynamics with vibrato, 3/4 sec.
Strong dynamics without vibrato, 2/3/4 sec.
Crescendo-diminuendo with vibrato, 2/4/10 sec.
Crescendo-diminuendo without vibrato, 2/3/4 sec.
Sforzatissimo with vibrato
Fortepiano, sforzato, sforzatissimo without vibrato

---

**01 OdA_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 OdA_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 OdA_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 OdA_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 OdA_dyn-str_Vib_3s** — Samples: 34 — RAM: 2 MB — Level 2

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

---

**12 OdA_dyn-str_Vib_4s** — Samples: 34 — RAM: 2 MB — Level 2

Strong crescendo and diminuendo with vibrato, 4 sec.
1 velocity layer
AB switch: crescendo/diminuendo

---

**21 OdA_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

---

**22 OdA_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

**23 OdA_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

**24 OdA_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

**31 OdA_dyn-str_noVib_2s** **Samples: 34** **RAM: 2 MB** **Level 2**

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

**32 OdA_dyn-str_noVib_3s** **Samples: 34** **RAM: 2 MB** **Level 2**

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

**33 OdA_dyn-str_noVib_4s** **Samples: 34** **RAM: 2 MB** **Level 2**

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

**41 OdA_pfp_Vib_2s** **Samples: 34** **RAM: 2 MB** **Level 2**

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

**42 OdA_pfp_Vib_4s** **Samples: 34** **RAM: 2 MB** **Level 2**

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

**43 OdA_pfp_Vib_10s** **Samples: 17** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo with vibrato, 10 sec.
1 velocity layer

**51 OdA_pfp_noVib_2s** **Samples: 34** **RAM: 2 MB** **Level 2**

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

**52 OdA_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

**53 OdA_pfp_noVib_4s** **Samples: 34** **RAM: 2 MB** **Level 2**

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

**61 OdA_fp_Vib** **Samples: 33** **RAM: 2 MB** **Level 1**

Fortepiano, with vibrato
1 velocity layer

**62 OdA_sfz_Vib** **Samples: 33** **RAM: 2 MB** **Level 1**

Sforzato, with vibrato
1 velocity layer

**63 OdA_sffz_Vib** **Samples: 33** **RAM: 2 MB** **Level 2**

Sforzatissimo, with vibrato
1 velocity layer

**71 OdA_fp_noVib** **Samples: 33** **RAM: 2 MB** **Level 2**

Fortepiano, without vibrato
1 velocity layer

**72 OdA_sfz_noVib** **Samples: 33** **RAM: 2 MB** **Level 2**

Sforzato, without vibrato
1 velocity layer

**73 OdA_sffz_noVib** **Samples: 33** **RAM: 2 MB** **Level 2**

Sforzatissimo, without vibrato
1 velocity layer

## 03 FLATTER Range: G3–E6

Single notes
**Level 1:** Flutter tonguing, normal and crescendo

**01 OdA_flatter** **Samples: 66** **RAM: 4 MB** **Level 1**

Flutter tonguing, forte
1 velocity layer
Release samples

**02 OdA_flatter_cre** **Samples: 33** **RAM: 2 MB** **Level 1**

Flutter tonguing, crescendo
1 velocity layer

## 10 PERF INTERVAL Range: G3–D6

Interval performances
**Level 1:** Legato
**Level 2:** Marcato

**01 OdA_perf-legato** **Samples: 790** **RAM: 49 MB** **Level 1**

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

**02 OdA_perf-marcato** **Samples: 790** **RAM: 49 MB** **Level 2**

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

## 11 PERF INTERVAL FAST — Range: G3–D6

Fast interval performances
**Level 1:** Legato
**Level 2:** Marcato

**01 OdA_perf-legato_fa** **Samples: 850** **RAM: 53 MB** **Level 1**

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

**02 OdA_perf-marcato_fa** **Samples: 850** **RAM: 53 MB** **Level 2**

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

## 12 PERF TRILL — Range: G3–D6

Multi interval performances
**Level 2:** Trills, legato, minor 2nd to major 3rd

**01 OdA_perf-trill** **Samples: 1950** **RAM: 121 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: G3–E6

Repetition performances
**Level 2:** Legato
Portato
Staccato
Normal and dynamics

**01 OdA_perf-rep_leg** **Samples: 170** **RAM: 10 MB** **Level 2**

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

**02 OdA_perf-rep_por** **Samples: 306** **RAM: 19 MB** **Level 2**

Repetition performances: Portato
2 velocity layers: 0–88 p; 89–127 f

**03 OdA_perf-rep_sta** **Samples: 306** **RAM: 19 MB** **Level 2**

Repetition performances: Staccato
2 velocity layers: 0–88 p; 89–127 f

**11 OdA_perf-rep_dyn5_leg** **Samples: 170** **RAM: 10 MB** **Level 2**

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

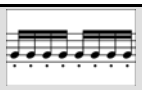
**12 OdA_perf-rep_dyn9_por** **Samples: 306** **RAM: 19 MB** **Level 2**

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

**13 OdA_perf-rep_dyn9_sta** **Samples: 306** **RAM: 19 MB** **Level 2**

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

## 14 FAST REPETITION Range: G3–E6



Fast repetitions
**Level 2:** Staccato, 120 to 180 BPM
Normal and dynamics

**01 OdA_fast-rep_120 (130/140/150/160/170/180)** **Samples: 68** **RAM: 4 MB** **Level 2**

Fast repetitions: Staccato, 9 repetitions, 120–180 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

**11 OdA_fast-rep_120_dyn (130/140/150/160/170/180)** **Samples: 34** **RAM: 2 MB** **Level 2**

Fast repetitions: Staccato, 9 repetitions, 120–180 BPM, crescendo and diminuendo
1 velocity layer
AB switch: crescendo/diminuendo

## 98 RESOURCES

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

### 98 RESOURCES/01 Perf Rep dyn Range: G3–E6

**01 OdA_rep_cre5_leg-1 (2/3/4/5)** **Samples: 17** **RAM: 1 MB** **Level 2**

Extracted repetition
Legato, crescendo, 1st to 5th note
1 velocity layer

**01 OdA_rep_dim5_leg-1 (2/3/4/5)** **Samples: 17** **RAM: 1 MB** **Level 2**

Extracted repetition
Legato, diminuendo, 1st to 5th note
1 velocity layer

**02 OdA_rep_cre9_por-1 (2/3/4/5/6/7/8/9)** **Samples: 17** **RAM: 1 MB** **Level 2**

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

**02 OdA_rep_dim9_por-1 (2/3/4/5/6/7/8/9)** **Samples: 17** **RAM: 1 MB** **Level 2**

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

**03 OdA_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)** **Samples: 17** **RAM: 1 MB** **Level 2**

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

**03 OdA_rep_dim9_sta-1 (2/3/4/5/6/7/8/9)** **Samples: 17** **RAM: 1 MB** **Level 2**

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

### 98 RESOURCES/02 Long Notes - Single Layer Range: G3–E6

**01 OdA_sus_p** **Samples: 66** **RAM: 4 MB** **Level 2**

Sustained, piano
1 velocity layer
Release samples

**02 OdA_sus_mp** **Samples: 66** **RAM: 4 MB** **Level 2**

Sustained, mezzopiano
1 velocity layer
Release samples

**03 OdA_sus_mf** **Samples: 65** **RAM: 4 MB** **Level 2**

Sustained, mezzoforte
1 velocity layer
Release samples

**04 OdA_sus_f** **Samples: 66** **RAM: 4 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 OdA Articulation Combi

**Samples: 956 RAM: 59 MB Level 1**

Single note articulations
Staccato, portato short, sustained with vibrato, fortepiano and sforzato with vibrato, flutter tonguing normal and crescendo

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

| | C1 | C#1 | D1 | D#1 |
|---|---|---|---|---|
| V1 | staccato | sus. vib. | fp vib. | flutter |
| V2 | portato short | sus. vib. | sfz vib. | flutter cres. |

### L1 OdA Perf-Legato Speed

**Samples: 970 RAM: 60 MB Level 1**

Interval performances: Legato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal speed | fast |

## Matrix - LEVEL 2 A - Advanced

### 01 OdA Perf-Universal

**Samples: 1874 RAM: 117 MB Level 2**

Interval performances: Legato normal and fast
Marcato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal | fast |
| marcato | normal | fast |

### 02 OdA Perf-Trill Speed

**Samples: 2182 RAM: 136 MB Level 2**

Multi interval performances: Legato and trills
Speed controller

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

| | H1 | H2 |
|---|---|---|
| V1 | legato | trills |

### 03 OdA Short+Long notes - All

**Samples: 1352 RAM: 84 MB Level 2**

Single notes
Staccato
Portato short and medium
Portato long, soft attack, 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 | portato short | portato medium | portato long vib. | sus. vib. |
| V2 | % | % | % | portato long no vib. | sus. no vib. |

## Matrix - LEVEL 2 B - Standard

### 11 OdA Perf-Legato Speed

**Samples: 970** **RAM: 60 MB** **Level 2**

Interval performances: Legato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal speed | fast |

### 12 OdA Perf-Marcato Speed

**Samples: 970** **RAM: 60 MB** **Level 2**

Interval performances: Marcato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| marcato | normal speed | fast |

### 13 OdA Dynamics

**Samples: 592** **RAM: 37 MB** **Level 2**

Dynamics
Medium crescendo and diminuendo with and without vibrato 2, 3, and 4 sec.
Crescendo-diminuendo with vibrato 2, 4, and 10 sec.
Fortepiano, sforzato, sforzatissimo with vibrato

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

| | C1 | C#1 | D1 |
|---|---|---|---|
| V1 | med. dyn. vib. 2 sec. | med. dyn. vib. 3 sec. | med. dyn. vib. 4 sec. |
| V2 | no vib. 2 sec. | no vib. 3 sec. | no vib. 4 sec. |
| V3 | pfp vib. 3 sec. | pfp vib. 4 sec. | pfp vib. 10 sec. |
| V4 | fp vib. | sfz vib. | sffz vib. |

### 14 OdA 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

### 21 OdA 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 |

### 22 OdA 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 |

### 23 OdA Fast Repetitions

**Samples: 272** **RAM: 17 MB** **Level 2**

Fast repetitions
Staccato, 9 repetitions: 120, 130, 140, 150, 160, 170, 180 BPM

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

| | C1 | C#1 | D1 | D#1 | E1 | F1 | F#1 |
|---|---|---|---|---|---|---|---|
| speed/BPM | 120 | 130 | 140 | 150 | 160 | 170 | 180 |

## Matrix - LEVEL 2 E - Keyswitch Vel

### 31 OdA 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 |

### 32 OdA 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 |

### 33 OdA 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 |

### 34 OdA 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 | % | % | % | % | % | % | % | % |

### 35 OdA 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 |

### 36 OdA 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 |

### 37 OdA 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 |

### 38 OdA 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

### OdA VSL Preset Level 1

**Samples: 1860 RAM: 116 MB** **Level 1**

L1 OdA Perf-Legato Speed
L1 OdA Articulation Combi
Preset Keyswitches: C2–C#2

### OdA VSL Preset Level 2

**Samples: 5244 RAM: 327 MB** **Level 2**

01 OdA Perf-Universal
02 OdA Perf-Trill Speed
L1 OdA Articulation Combi
21 OdA Perf-Repetitions - Combi
34 OdA Combi - cre9
Preset Keyswitches: C2–E2

# 38 Heckelphone

## Patches

### 01 SHORT + LONG NOTES — Range: G#2–F5

Single notes
**Level 1:** Staccato
Portato short
Sustained with vibrato
**Level 2:** Portato medium with vibrato
Sustained without vibrato

**01 HPH_staccato** — **Samples: 198** **RAM: 12 MB** **Level 1**

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

**02 HPH_portato_short** — **Samples: 198** **RAM: 12 MB** **Level 1**

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

**03 HPH_portato_medium** — **Samples: 198** **RAM: 12 MB** **Level 2**

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

**11 HPH_sus_Vib** — **Samples: 198** **RAM: 12 MB** **Level 1**

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

**12 HPH_sus_noVib** — **Samples: 132** **RAM: 8 MB** **Level 2**

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

## 02 DYNAMICS — Range: G#2–F5

Single notes
**Level 1:** Fortepiano and sforzato, with vibrato
**Level 2:** Medium dynamics with vibrato, 1.5/2/3/5 sec.
Strong dynamics without vibrato, 1.5/2/3/4/6 sec.
Crescendo-diminuendo with vibrato, 2/3/5/8 sec.
Sforzatissimo with vibrato

---

**01 HPH_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 HPH_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 HPH_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 HPH_dyn-me_Vib_5s** — **Samples: 68** — **RAM: 4 MB** — **Level 2**

Medium crescendo and diminuendo with vibrato, 5 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

---

**11 HPH_dyn-str_noVib_1'5s** — **Samples: 34** — **RAM: 2 MB** — **Level 2**

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

---

**12 HPH_dyn-str_noVib_2s** — **Samples: 34** — **RAM: 2 MB** — **Level 2**

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

---

**13 HPH_dyn-str_noVib_3s** — **Samples: 34** — **RAM: 2 MB** — **Level 2**

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

---

**14 HPH_dyn-str_noVib_4s** — **Samples: 34** — **RAM: 2 MB** — **Level 2**

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

**15 HPH_dyn-str_noVib_6s** **Samples: 34** **RAM: 2 MB** **Level 2**

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

**21 HPH_pfp_Vib_2s** **Samples: 34** **RAM: 2 MB** **Level 2**

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

**22 HPH_pfp_Vib_3s** **Samples: 34** **RAM: 2 MB** **Level 2**

Crescendo-diminuendo with vibrato, 3 sec.
2 velocity layers: 0–88 p; 89–127 f

**23 HPH_pfp_Vib_5s** **Samples: 34** **RAM: 2 MB** **Level 2**

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

**24 HPH_pfp_Vib_8s** **Samples: 17** **RAM: 1 MB** **Level 2**

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

**31 HPH_fp_Vib** **Samples: 33** **RAM: 2 MB** **Level 1**

Fortepiano, with vibrato
1 velocity layer

**32 HPH_sfz_Vib** **Samples: 33** **RAM: 2 MB** **Level 1**

Sforzato, with vibrato
1 velocity layer

**33 HPH_sffz_Vib** **Samples: 33** **RAM: 2 MB** **Level 2**

Sforzatissimo, with vibrato
1 velocity layer

## 03 FLATTER — Range: G#2–F5

Single notes
**Level 1:** Flutter tonguing

**01 HPH_flatter** **Samples: 66** **RAM: 4 MB** **Level 1**

Flutter tonguing, forte
1 velocity layer
Release samples

## 10 PERF INTERVAL — Range: G#2–F5

Interval performances
**Level 1:** Legato
**Level 2:** Marcato

### 01 HPH_perf-legato — Samples: 818 RAM: 51 MB Level 1

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

### 02 HPH_perf-marcato — Samples: 818 RAM: 51 MB Level 2

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

## 11 PERF INTERVAL FAST — Range: G#2–F5

Fast interval performances
**Level 1:** Legato
**Level 2:** Marcato

### 01 HPH_perf-legato_fa — Samples: 882 RAM: 55 MB Level 1

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

### 02 HPH_perf-marcato_fa — Samples: 882 RAM: 55 MB Level 2

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

## 12 PERF TRILL — Range: G#2–F5

Multi interval performances
**Level 2:** Trills, legato, minor 2nd to major 3rd

### 01 HPH_perf-trill — Samples: 2114 RAM: 132 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: G#2–F5

Repetition performances

**Level 2:** Legato
Portato
Staccato
Normal and dynamics

**01 HPH_perf-rep_leg** — **Samples: 170** **RAM: 10 MB** **Level 2**

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

**02 HPH_perf-rep_por** — **Samples: 288** **RAM: 18 MB** **Level 2**

Repetition performances: Portato
2 velocity layers: 0–88 p; 89–127 f

**03 HPH_perf-rep_sta** — **Samples: 288** **RAM: 18 MB** **Level 2**

Repetition performances: Staccato
2 velocity layers: 0–88 p; 89–127 f

**11 HPH_perf-rep_dyn5_leg** — **Samples: 170** **RAM: 10 MB** **Level 2**

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

**12 HPH_perf-rep_dyn5_por** — **Samples: 160** **RAM: 10 MB** **Level 2**

Repetition performances: Portato dynamics, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

**13 HPH_perf-rep_dyn9_sta** — **Samples: 288** **RAM: 18 MB** **Level 2**

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

## 98 RESOURCES

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

## 98 RESOURCES/01 Perf Rep dyn — Range: G#2–F5

**01 HPH_rep_cre5_leg-1 (2/3/4/5)** — **Samples: 17** **RAM: 1 MB** **Level 2**

Extracted repetition
Legato, crescendo, 1st to 5th note
1 velocity layer

**01 HPH_rep_dim5_leg-1 (2/3/4/5)** **Samples: 17** **RAM: 1 MB** **Level 2**

Extracted repetition
Legato, diminuendo, 1st to 5th note
1 velocity layer

**02 HPH_rep_cre5_por-1 (2/3/4/5)** **Samples: 16** **RAM: 1 MB** **Level 2**

Extracted repetition
Portato, crescendo, 1st to 5th note
1 velocity layer

**02 HPH_rep_dim5_por-1 (2/3/4/5)** **Samples: 16** **RAM: 1 MB** **Level 2**

Extracted repetition
Portato, diminuendo, 1st to 5th note
1 velocity layer

**03 HPH_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)** **Samples: 16** **RAM: 1 MB** **Level 2**

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

**03 HPH_rep_dim9_sta-1 (2/3/4/5/6/7/8/9)** **Samples: 16** **RAM: 1 MB** **Level 2**

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

## 98 RESOURCES/02 Long Notes - Single Layer Range: G#2–F5

**01 HPH_sus_p** **Samples: 66** **RAM: 4 MB** **Level 2**

Sustained, piano
1 velocity layer
Release samples

**02 HPH_sus_mf** **Samples: 66** **RAM: 4 MB** **Level 2**

Sustained, mezzoforte
1 velocity layer
Release samples

**03 HPH_sus_f** **Samples: 66** **RAM: 4 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 HPH Articulation Combi

**Samples: 726 RAM: 45 MB** **Level 1**

Single note articulations
Staccato, portato short, sustained with vibrato, fortepiano and sforzato with vibrato, flutter tonguing

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

| | C1 | C#1 | D1 | D#1 |
|---|---|---|---|---|
| V1 | staccato | sus. vib. | fp vib. | flutter |
| V2 | portato short | sus. vib. | sfz vib. | flutter |

### L1 HPH Perf-Legato Speed

**Samples: 1006 RAM: 62 MB** **Level 1**

Interval performances: Legato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal speed | fast |

## Matrix - LEVEL 2 A - Advanced

### 01 HPH Perf-Universal

**Samples: 1946 RAM: 121 MB** **Level 2**

Interval performances: Legato normal and fast
Marcato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal | fast |
| marcato | normal | fast |

### 02 HPH Perf-Trill Speed

**Samples: 2354 RAM: 147 MB** **Level 2**

Multi interval performances: Legato and trills
Speed controller

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

| | H1 | H2 |
|---|---|---|
| V1 | legato | trills |

### 03 HPH Short+Long notes - All

**Samples: 858 RAM: 53 MB** **Level 2**

Single notes
Staccato
Portato short and medium
Sustained with and without vibrato

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

| | C1 | C#1 | D1 | D#1 |
|---|---|---|---|---|
| V1 | staccato | portato short | portato medium | sus. vib. |
| V2 | % | % | % | sus. no vib. |

## Matrix - LEVEL 2 B - Standard

### 11 HPH Perf-Legato Speed

**Samples: 1006 RAM: 62 MB** **Level 2**

Interval performances: Legato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal speed | fast |

### 12 HPH Perf-Marcato Speed

**Samples: 1006 RAM: 62 MB** **Level 2**

Interval performances: Marcato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| marcato | normal speed | fast |

### 13 HPH Dynamics

**Samples: 507 RAM: 31 MB** **Level 2**

Dynamics
Medium crescendo and diminuendo with vibrato 2, 3, and 5 sec.
Strong crescendo and diminuendo without vibrato 2, 3, and 4 sec.
Crescendo-diminuendo with vibrato 2, 3, and 5 sec.
Fortepiano, sforzato, sforzatissimo with vibrato

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

| | C1 | C#1 | D1 |
|---|---|---|---|
| V1 | med. dyn. vib. 2 sec. | med. dyn. vib. 3 sec. | med. dyn. vib. 5 sec. |
| V2 | strong dyn. no vib. 2 sec. | strong dyn. no vib. 3 sec. | strong dyn. no vib. 4 sec. |
| V3 | pfp vib. 2 sec. | pfp vib. 3 sec. | pfp vib. 5 sec. |
| V4 | fp vib. | sfz vib. | sffz vib. |

### 14 HPH Flatter

**Samples: 66 RAM: 4 MB** **Level 2**

Flutter tonguing

## Matrix - LEVEL 2 C - Repetitions

### 21 HPH Perf-Repetitions - Combi

**Samples: 746 RAM: 46 MB** **Level 2**

Repetition performances
Legato, portato, and staccato

**Matrix switches:** Horizontal: Keyswitches, C1–D1

| | C1 | C#1 | D1 |
|---|---|---|---|
| V1 | legato | portato | staccato |

### 22 HPH Perf-Repetitions - Speed

**Samples: 746 RAM: 46 MB** **Level 2**

Repetition performances
Legato, portato, and staccato
Speed controller

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

| | H1 | H2 | H3 |
|---|---|---|---|
| V1 | legato | portato | staccato |

## Matrix - LEVEL 2 E - Keyswitch Vel

### 31 HPH 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 |

### 32 HPH Portato - cre5

**Samples: 80** **RAM: 5 MB** **Level 2**

Portato 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 |

### 33 HPH Staccato - cre9

**Samples: 144** **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 |

### 34 HPH Combi - cre5

**Samples: 165** **RAM: 10 MB** **Level 2**

Legato and portato: 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 | 1st | 2nd | 3rd | 4th | 5th |
| portato | 1st | % | % | % | % |

### 35 HPH 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 |

### 36 HPH Portato - dim5

**Samples: 80** **RAM: 5 MB** **Level 2**

Portato 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 |

### 37 HPH Staccato - dim9

**Samples: 144 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 |

### 38 HPH Combi - dim5

**Samples: 165 RAM: 10 MB** **Level 2**

Legato and portato: 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 | 1st | 2nd | 3rd | 4th | 5th |
| portato | 1st | % | % | % | % |

## Presets

### HPH VSL Preset Level 1

**Samples: 1666 RAM: 104 MB** **Level 1**

L1 HPH Perf-Legato Speed
L1 HPH Articulation Combi
Preset Keyswitches: C2–C#2

### HPH VSL Preset Level 2

**Samples: 5053 RAM: 315 MB** **Level 2**

01 HPH Perf-Universal
02 HPH Perf-Trill Speed
L1 HPH Articulation Combi
21 HPH Perf-Repetitions - Combi
34 HPH Combi - cre5
Preset Keyswitches: C2–E2

# 41 Contrabass Clarinet

## Patches

### 01 SHORT + LONG NOTES — Range: A#0–F4

Single notes
**Level 1:** Staccato
Portato
Sustained

**01 CCL_staccato** — Samples: 264 — RAM: 16 MB — Level 1

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

**02 CCL_portato** — Samples: 264 — RAM: 16 MB — Level 1

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

**11 CCL_sus** — Samples: 264 — RAM: 16 MB — Level 1

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

### 02 DYNAMICS — Range: A#0–E4

Single notes
**Level 1:** Fortepiano and sforzato
**Level 2:** Medium dynamics, 1.5/2/3/4/6 sec.
Crescendo-diminuendo, 2/3/4/6/8 sec.
Sforzatissimo

**01 CCL_dyn-me_1'5s** — Samples: 88 — RAM: 5 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 CCL_dyn-me_2s** — Samples: 88 — RAM: 5 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 CCL_dyn-me_3s** **Samples: 88** **RAM: 5 MB** **Level 2**

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

**04 CCL_dyn-me_4s** **Samples: 88** **RAM: 5 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 CCL_dyn-me_6s** **Samples: 88** **RAM: 5 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 CCL_pfp_2s** **Samples: 44** **RAM: 2 MB** **Level 2**

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

**12 CCL_pfp_3s** **Samples: 44** **RAM: 2 MB** **Level 2**

Crescendo-diminuendo, 3 sec.
2 velocity layers: 0–88 p; 89–127 f

**13 CCL_pfp_4s** **Samples: 44** **RAM: 2 MB** **Level 2**

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

**14 CCL_pfp_6s** **Samples: 44** **RAM: 2 MB** **Level 2**

Crescendo-diminuendo, 6 sec.
2 velocity layers: 0–88 p; 89–127 f

**15 CCL_pfp_8s** **Samples: 22** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 8 sec.
1 velocity layer

**21 CCL_fp** **Range: A#0–F4** **Samples: 44** **RAM: 2 MB** **Level 1**

Fortepiano
1 velocity layer

**22 CCL_sfz** **Range: A#0–F4** **Samples: 44** **RAM: 2 MB** **Level 1**

Sforzato
1 velocity layer

**23 CCL_sffz** **Range: A#0–F4** **Samples: 44** **RAM: 2 MB** **Level 2**

Sforzatissimo
1 velocity layer

## 03 FLATTER — Range: A#0–C4

Single notes
**Level 1:** Flutter tonguing, normal and crescendo

### 01 CCL_flatter — Samples: 78 — RAM: 4 MB — Level 1

Flutter tonguing, forte
1 velocity layer
Release samples

### 02 CCL_flatter_cre — Samples: 39 — RAM: 2 MB — Level 1

Flutter tonguing, crescendo
1 velocity layer

## 10 PERF INTERVAL — Range: A#0–C4

Interval performances
**Level 1:** Legato
**Level 2:** Marcato

### 01 CCL_perf-legato — Samples: 1036 — RAM: 64 MB — Level 1

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

### 02 CCL_perf-marcato — Samples: 1036 — RAM: 64 MB — Level 2

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

## 11 PERF INTERVAL FAST — Range: A#0–C4

Fast interval performances
**Level 1:** Legato
**Level 2:** Marcato

### 01 CCL_perf-legato_fa — Samples: 1112 — RAM: 69 MB — Level 1

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

### 02 CCL_perf-marcato_fa — Samples: 1108 — RAM: 69 MB — Level 2

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

## 12 PERF TRILL — Range: A#0–C4

Multi interval performances
**Level 2:** Trills, legato, minor 2nd to major 3rd

**01 CCL_perf-trill** — **Samples: 2564 RAM: 160 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: A#0–E4

Repetition performances
**Level 2:** Legato
Portato
Staccato
Normal and dynamics

**01 CCL_perf-rep_leg** — **Samples: 220 RAM: 13 MB Level 2**

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

**02 CCL_perf-rep_por** — **Samples: 396 RAM: 24 MB Level 2**

Repetition performances: Portato
2 velocity layers: 0–88 p; 89–127 f

**03 CCL_perf-rep_sta** — **Samples: 396 RAM: 24 MB Level 2**

Repetition performances: Staccato
2 velocity layers: 0–88 p; 89–127 f

**11 CCL_perf-rep_dyn5_leg** — **Samples: 220 RAM: 13 MB Level 2**

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

**12 CCL_perf-rep_dyn5_por** — **Samples: 220 RAM: 13 MB Level 2**

Repetition performances: Portato dynamics, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

**13 CCL_perf-rep_dyn9_sta** — **Samples: 396 RAM: 24 MB Level 2**

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

## 98 RESOURCES

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

### 98 RESOURCES/01 Perf Rep dyn Range: A#0–E4

**01 CCL_rep_cre5_leg-1 (2/3/4/5)** **Samples: 22** **RAM: 1 MB** **Level 2**

Extracted repetition
Legato, crescendo, 1st to 5th note
1 velocity layer

**01 CCL_rep_dim5_leg-1 (2/3/4/5)** **Samples: 22** **RAM: 1 MB** **Level 2**

Extracted repetition
Legato, diminuendo, 1st to 5th note
1 velocity layer

**02 CCL_rep_cre5_por-1 (2/3/4/5)** **Samples: 22** **RAM: 1 MB** **Level 2**

Extracted repetition
Portato, crescendo, 1st to 5th note
1 velocity layer

**02 CCL_rep_dim5_por-1 (2/3/4/5)** **Samples: 22** **RAM: 1 MB** **Level 2**

Extracted repetition
Portato, diminuendo, 1st to 5th note
1 velocity layer

**03 CCL_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)** **Samples: 22** **RAM: 1 MB** **Level 2**

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

**03 CCL_rep_dim9_sta-1 (2/3/4/5/6/7/8/9)** **Samples: 22** **RAM: 1 MB** **Level 2**

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

### 98 RESOURCES/02 Long Notes - Single Layer Range: A#0–F4

**01 CCL_sus_p** **Samples: 88** **RAM: 5 MB** **Level 2**

Sustained, piano
1 velocity layer
Release samples

**02 CCL_sus_mf** **Samples: 88** **RAM: 5 MB** **Level 2**

Sustained, mezzoforte
1 velocity layer
Release samples

**03 CCL_sus_f** **Samples: 88** **RAM: 5 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 CCL Articulation Combi

**Samples: 997 RAM: 62 MB Level 1**

Single note articulations
Staccato, portato, sustained, fortepiano and sforzato, flutter tonguing normal and crescendo

**Matrix switches:** Horizontal: Keyswitches, C6–D#6 Vertical: Modwheel, 2 zones

| | C6 | C#6 | D6 | D#6 |
|---|---|---|---|---|
| V1 | staccato | sustained | fortepiano | flutter |
| V2 | portato | sustained | sforzato | flutter cres. |

### L1 CCL Perf-Legato Speed

**Samples: 1264 RAM: 79 MB Level 1**

Interval performances: Legato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal speed | fast |

## Matrix - LEVEL 2 A - Advanced

### 01 CCL Perf-Universal

**Samples: 2436 RAM: 152 MB Level 2**

Interval performances: Legato normal and fast
Marcato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal | fast |
| marcato | normal | fast |

### 02 CCL Perf-Trill Speed

**Samples: 2860 RAM: 178 MB Level 2**

Multi interval performances: Legato and trills
Speed controller

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

| | H1 | H2 |
|---|---|---|
| V1 | legato | trills |

### 03 CCL Short+Long notes - All

**Samples: 792 RAM: 49 MB Level 2**

Single note articulations
Staccato, portato, and sustained

**Matrix switches:** Horizontal: Keyswitches, C6–D6

| | C6 | C#6 | D6 |
|---|---|---|---|
| V1 | staccato | portato | sustained |

## Matrix - LEVEL 2 B - Standard

### 11 CCL Perf-Legato Speed

**Samples: 1264 RAM: 79 MB** **Level 2**

Interval performances: Legato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal speed | fast |

### 12 CCL Perf-Marcato Speed

**Samples: 1260 RAM: 78 MB** **Level 2**

Interval performances: Marcato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| marcato | normal speed | fast |

### 13 CCL Dynamics

**Samples: 528 RAM: 33 MB** **Level 2**

Dynamics
Medium crescendo and diminuendo 2, 3, and 4 sec.
Crescendo-diminuendo 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo
AB switch: A5/B5

**Matrix switches:** Horizontal: Keyswitches, C6–D6 Vertical: Modwheel, 3 zones

| | C6 | C#6 | D6 |
|---|---|---|---|
| V1 | med. dyn. 2 sec. | med. dyn. 3 sec. | med. dyn. 4 sec. |
| V2 | pfp 2 sec. | pfp 3 sec. | pfp 4 sec. |
| V3 | fortepiano | sforzato | sforzatissimo |

### 14 CCL Flatter

**Samples: 117 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 |

## Matrix - LEVEL 2 C - Repetitions

### 21 CCL Perf-Repetitions - Combi

**Samples: 1012 RAM: 63 MB** **Level 2**

Repetition performances
Legato, portato, and staccato

**Matrix switches:** Horizontal: Keyswitches, C6–D6

| | C6 | C#6 | D6 |
|---|---|---|---|
| V1 | legato | portato | staccato |

### 22 CCL Perf-Repetitions - Speed

**Samples: 1012 RAM: 63 MB** **Level 2**

Repetition performances
Legato, portato, and staccato
Speed controller

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

| | H1 | H2 | H3 |
|---|---|---|---|
| V1 | legato | portato | staccato |

## Matrix - LEVEL 2 E - Keyswitch Vel

### 31 CCL Legato - cre5

**Samples: 110 RAM: 6 MB** **Level 2**

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

**Matrix switches:** Horizontal: Keyswitches, C6–E6

| | C6 | C#6 | D6 | D#6 | E6 |
|---|---|---|---|---|---|
| velocity | 1st | 2nd | 3rd | 4th | 5th |

### 32 CCL Portato - cre5

**Samples: 110 RAM: 6 MB** **Level 2**

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

**Matrix switches:** Horizontal: Keyswitches, C6–E6

| | C6 | C#6 | D6 | D#6 | E6 |
|---|---|---|---|---|---|
| velocity | 1st | 2nd | 3rd | 4th | 5th |

### 33 CCL Staccato - cre9

**Samples: 198 RAM: 12 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 |

### 34 CCL Combi - cre5

**Samples: 220 RAM: 13 MB** **Level 2**

Legato and portato: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–E6 Vertical: Modwheel, 2 zones

| | C6 | C#6 | D6 | D#6 | E6 |
|---|---|---|---|---|---|
| legato | 1st | 2nd | 3rd | 4th | 5th |
| portato | 1st | % | % | % | % |

### 35 CCL Legato - dim5

**Samples: 110 RAM: 6 MB** **Level 2**

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

**Matrix switches:** Horizontal: Keyswitches, C6–E6

| | C6 | C#6 | D6 | D#6 | E6 |
|---|---|---|---|---|---|
| velocity | 1st | 2nd | 3rd | 4th | 5th |

### 36 CCL Portato - dim5

**Samples: 110 RAM: 6 MB Level 2**

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

**Matrix switches:** Horizontal: Keyswitches, C6–E6

| | C6 | C#6 | D6 | D#6 | E6 |
|---|---|---|---|---|---|
| velocity | 1st | 2nd | 3rd | 4th | 5th |

### 37 CCL Staccato - dim9

**Samples: 198 RAM: 12 MB Level 2**

Staccato notes: Diminuendo, 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 |

### 38 CCL Combi - dim5

**Samples: 220 RAM: 13 MB Level 2**

Legato and portato: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C6–E6 Vertical: Modwheel, 2 zones

| | C6 | C#6 | D6 | D#6 | E6 |
|---|---|---|---|---|---|
| legato | 1st | 2nd | 3rd | 4th | 5th |
| portato | 1st | % | % | % | % |

## Presets

### CCL VSL Preset Level 1

**Samples: 2173 RAM: 135 MB Level 1**

L1 CCL Perf-Legato Speed
L1 CCL Articulation Combi
Preset Keyswitches: C7–C#7

### CCL VSL Preset Level 2

**Samples: 6401 RAM: 400 MB Level 2**

01 CCL Perf-Universal
02 CCL Perf-Trill Speed
L1 CCL Articulation Combi
21 CCL Perf-Repetitions - Combi
34 CCL Combi - cre5
Preset Keyswitches: C7–E7

# 42 Basset Horn

## Patches

### 01 SHORT + LONG NOTES — Range: F2–C6

Single notes
**Level 1:** Staccato
Portato short
Sustained
**Level 2:** Portato medium
Portato long with soft and hard attack

**01 BH_staccato** — **Samples: 352** **RAM: 22 MB** **Level 1**

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

**02 BH_portato_short** — **Samples: 352** **RAM: 22 MB** **Level 1**

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

**03 BH_portato_medium** — **Samples: 352** **RAM: 22 MB** **Level 2**

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

**04 BH_portato_lo_sA** — **Samples: 308** **RAM: 19 MB** **Level 2**

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

**05 BH_portato_lo_hA** — **Samples: 308** **RAM: 19 MB** **Level 2**

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

**11 BH_sus** — **Samples: 352** **RAM: 22 MB** **Level 1**

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

## 02 DYNAMICS Range: F2–B5

Single notes
**Level 1:** Fortepiano and sforzato
**Level 2:** Medium dynamics, 1.5/2/3/4 sec.
Strong dynamics, 1.5/2/3/4/6 sec.Crescendo-diminuendo, 2/3/4/6/8 sec.
Sforzatissimo

### 01 BH_dyn-me_1'5s
**Samples: 88** **RAM: 5 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 BH_dyn-me_2s
**Samples: 88** **RAM: 5 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 BH_dyn-me_3s
**Samples: 88** **RAM: 5 MB** **Level 2**

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

### 04 BH_dyn-me_4s
**Samples: 88** **RAM: 5 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

### 11 BH_dyn-str_1'5s
**Samples: 44** **RAM: 2 MB** **Level 2**

Strong crescendo and diminuendo, 1.5 sec.
1 velocity layer
AB switch: crescendo/diminuendo

### 12 BH_dyn-str_2s
**Samples: 44** **RAM: 2 MB** **Level 2**

Strong crescendo and diminuendo, 2 sec.
1 velocity layer
AB switch: crescendo/diminuendo

### 13 BH_dyn-str_3s
**Samples: 44** **RAM: 2 MB** **Level 2**

Strong crescendo and diminuendo, 3 sec.
1 velocity layer
AB switch: crescendo/diminuendo

### 14 BH_dyn-str_4s
**Samples: 44** **RAM: 2 MB** **Level 2**

Strong crescendo and diminuendo, 4 sec.
1 velocity layer
AB switch: crescendo/diminuendo

**15 BH_dyn-str_6s** **Samples: 44** **RAM: 2 MB** **Level 2**

Strong crescendo and diminuendo, 6 sec.
1 velocity layer
AB switch: crescendo/diminuendo

**21 BH_pfp_2s** **Samples: 44** **RAM: 2 MB** **Level 2**

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

**22 BH_pfp_3s** **Samples: 44** **RAM: 2 MB** **Level 2**

Crescendo-diminuendo, 3 sec.
2 velocity layers: 0–88 p; 89–127 f

**23 BH_pfp_4s** **Samples: 44** **RAM: 2 MB** **Level 2**

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

**24 BH_pfp_6s** **Samples: 44** **RAM: 2 MB** **Level 2**

Crescendo-diminuendo, 6 sec.
2 velocity layers: 0–88 p; 89–127 f

**25 BH_pfp_8s** **Samples: 22** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 8 sec.
1 velocity layer

**31 BH_fp** **Range: F2–C6** **Samples: 44** **RAM: 2 MB** **Level 1**

Fortepiano
1 velocity layer

**32 BH_sfz** **Range: F2–C6** **Samples: 44** **RAM: 2 MB** **Level 1**

Sforzato
1 velocity layer

**33 BH_sffz** **Range: F2–C6** **Samples: 44** **RAM: 2 MB** **Level 2**

Sforzatissimo
1 velocity layer

## 03 FLATTER **Range: F2–C6**

Single notes
**Level 1:** Flutter tonguing, normal and crescendo

**01 BH_flatter** **Samples: 88** **RAM: 5 MB** **Level 1**

Flutter tonguing, forte
1 velocity layer
Release samples

**02 BH_flatter_cre** **Samples: 44** **RAM: 2 MB** **Level 1**

Flutter tonguing, crescendo
1 velocity layer

## 10 PERF INTERVAL — Range: F2–B5

Interval performances
**Level 1:** Legato
**Level 2:** Marcato

### 01 BH_perf-legato — Samples: 1148 RAM: 71 MB — Level 1

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

### 02 BH_perf-marcato — Samples: 1148 RAM: 71 MB — Level 2

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

## 11 PERF INTERVAL FAST — Range: F2–B5

Fast interval performances
**Level 1:** Legato
**Level 2:** Marcato

### 01 BH_perf-legato_fa — Samples: 1232 RAM: 77 MB — Level 1

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

### 02 BH_perf-marcato_fa — Samples: 1232 RAM: 77 MB — Level 2

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

## 12 PERF TRILL — Range: F2–B5

Multi interval performances
**Level 2:** Trills, legato, minor 2nd to major 3rd

### 01 BH_perf-trill — Samples: 2836 RAM: 177 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: F2–B5

Repetition performances
**Level 2:** Legato
Portato
Staccato
Normal and dynamics

**01 BH_perf-rep_leg** — **Samples: 220** **RAM: 13 MB** **Level 2**

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

**02 BH_perf-rep_por** — **Samples: 396** **RAM: 24 MB** **Level 2**

Repetition performances: Portato
2 velocity layers: 0–88 p; 89–127 f

**03 BH_perf-rep_sta** — **Samples: 352** **RAM: 22 MB** **Level 2**

Repetition performances: Staccato
2 velocity layers: 0–88 p; 89–127 f

**11 BH_perf-rep_dyn5_leg** — **Samples: 220** **RAM: 13 MB** **Level 2**

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

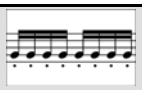
**12 BH_perf-rep_dyn9_por** — **Samples: 396** **RAM: 24 MB** **Level 2**

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

**13 BH_perf-rep_dyn9_sta** — **Samples: 396** **RAM: 24 MB** **Level 2**

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

## 14 FAST REPETITION — Range: F2–B5



Fast repetitions
**Level 2:** Staccato, 120 to 180 BPM
Normal and dynamics

**01 BH_fast-rep_120 (130/140/150/160/170/180)** — **Samples: 88** **RAM: 5 MB** **Level 2**

Fast repetitions: Staccato, 9 repetitions, 120–180 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

**11 BH_fast-rep_120_dyn (130/140/150/160/170/180)** — **Samples: 44** **RAM: 2 MB** **Level 2**

Fast repetitions: Staccato, 9 repetitions, 120–180 BPM, crescendo and diminuendo
1 velocity layer
AB switch: crescendo/diminuendo

## 98 RESOURCES

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

### 98 RESOURCES/01 Perf Rep dyn Range: F2–B5

**01 BH_rep_cre5_leg-1 (2/3/4/5)** **Samples: 22** **RAM: 1 MB** **Level 2**

Extracted repetition
Legato, crescendo, 1st to 5th note
1 velocity layer

**01 BH_rep_dim5_leg-1 (2/3/4/5)** **Samples: 22** **RAM: 1 MB** **Level 2**

Extracted repetition
Legato, diminuendo, 1st to 5th note
1 velocity layer

**02 BH_rep_cre9_por-1 (2/3/4/5/6/7/8/9)** **Samples: 22** **RAM: 1 MB** **Level 2**

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

**02 BH_rep_dim9_por-1 (2/3/4/5/6/7/8/9)** **Samples: 22** **RAM: 1 MB** **Level 2**

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

**03 BH_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)** **Samples: 22** **RAM: 1 MB** **Level 2**

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

**03 BH_rep_dim9_sta-1 (2/3/4/5/6/7/8/9)** **Samples: 22** **RAM: 1 MB** **Level 2**

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

### 98 RESOURCES/02 Long Notes - Single Layer Range: F2–C6

**01 BH_sus_p** **Samples: 88** **RAM: 5 MB** **Level 2**

Sustained, piano
1 velocity layer
Release samples

**02 BH_sus_mp** **Samples: 88** **RAM: 5 MB** **Level 2**

Sustained, mezzopiano
1 velocity layer
Release samples

**03 BH_sus_mf** **Samples: 88** **RAM: 5 MB** **Level 2**

Sustained, mezzoforte
1 velocity layer
Release samples

**04 BH_sus_f** **Samples: 88** **RAM: 5 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 BH Articulation Combi

**Samples: 1276 RAM: 79 MB** **Level 1**

Single note articulations
Staccato, portato short, sustained, fortepiano and sforzato, flutter tonguing normal and crescendo

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

| | C1 | C#1 | D1 | D#1 |
|---|---|---|---|---|
| V1 | staccato | sustained | fortepiano | flutter |
| V2 | portato short | sustained | sforzato | flutter cres. |

### L1 BH Perf-Legato Speed

**Samples: 1400 RAM: 87 MB** **Level 1**

Interval performances: Legato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal speed | fast |

## Matrix - LEVEL 2 A - Advanced

### 01 BH Perf-Universal

**Samples: 2712 RAM: 169 MB** **Level 2**

Interval performances: Legato normal and fast
Marcato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal | fast |
| marcato | normal | fast |

### 02 BH Perf-Trill Speed

**Samples: 3164 RAM: 197 MB** **Level 2**

Multi interval performances: Legato and trills
Speed controller

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

| | H1 | H2 |
|---|---|---|
| V1 | legato | trills |

### 03 BH Short+Long notes - All

**Samples: 1672 RAM: 104 MB** **Level 2**

Single notes
Staccato
Portato short and medium
Portato long with soft and hard attack
Sustained

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

| | C1 | C#1 | D1 | D#1 | E1 |
|---|---|---|---|---|---|
| V1 | staccato | portato short | portato medium | portato long soft | sustained |
| V2 | % | % | % | portato long hard | % |

## Matrix - LEVEL 2 B - Standard

### 11 BH Perf-Legato Speed

**Samples: 1400 RAM: 87 MB** **Level 2**

Interval performances: Legato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| legato | normal speed | fast |

### 12 BH Perf-Marcato Speed

**Samples: 1400 RAM: 87 MB** **Level 2**

Interval performances: Marcato normal and fast
Speed controller

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

| | H1 | H2 |
|---|---|---|
| marcato | normal speed | fast |

### 13 BH Dynamics

**Samples: 660 RAM: 41 MB** **Level 2**

Dynamics
Medium crescendo and diminuendo 2, 3, and 4 sec.
Strong crescendo and diminuendo 2, 3, and 4 sec.
Crescendo-diminuendo 2, 3, and 4 sec.
Fortepiano, sforzato, sforzatissimo

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

| | C1 | C#1 | D1 |
|---|---|---|---|
| V1 | med. dyn. 2 sec. | med. dyn. 3 sec. | med. dyn. 4 sec. |
| V2 | strong dyn. 2 sec. | strong dyn. 3 sec. | strong dyn. 4 sec. |
| V3 | pfp 2 sec. | pfp 3 sec. | pfp 4 sec. |
| V4 | fortepiano | sforzato | sforzatissimo |

### 14 BH Flatter

**Samples: 132 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 |

## Matrix - LEVEL 2 C - Repetitions

### 21 BH Perf-Repetitions - Combi

**Samples: 968 RAM: 60 MB** **Level 2**

Repetition performances
Legato, portato, and staccato

**Matrix switches:** Horizontal: Keyswitches, C1–D1

| | C1 | C#1 | D1 |
|---|---|---|---|
| V1 | legato | portato | staccato |

### 22 BH Perf-Repetitions - Speed

**Samples: 968** **RAM: 60 MB** **Level 2**

Repetition performances
Legato, portato, and staccato
Speed controller

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

| | H1 | H2 | H3 |
|---|---|---|---|
| V1 | legato | portato | staccato |

### 23 BH Fast Repetitions

**Samples: 352** **RAM: 22 MB** **Level 2**

Fast repetitions
Staccato, 9 repetitions: 120, 130, 140, 150, 160, 170, 180 BPM

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

| | C1 | C#1 | D1 | D#1 | E1 | F1 | F#1 |
|---|---|---|---|---|---|---|---|
| speed/BPM | 120 | 130 | 140 | 150 | 160 | 170 | 180 |

## Matrix - LEVEL 2 E - Keyswitch Vel

### 31 BH Legato - cre5

**Samples: 110** **RAM: 6 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 |

### 32 BH Portato - cre9

**Samples: 198** **RAM: 12 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 |

### 33 BH Staccato - cre9

**Samples: 198** **RAM: 12 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 |

### 34 BH Combi - cre9

**Samples: 396** **RAM: 24 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 | % | % | % | % | % | % | % | % |

### 35 BH Legato - dim5 — Samples: 110 RAM: 6 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 |

### 36 BH Portato - dim9 — Samples: 198 RAM: 12 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 |

### 37 BH Staccato - dim9 — Samples: 198 RAM: 12 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 |

### 38 BH Combi - dim9 — Samples: 396 RAM: 24 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

### BH VSL Preset Level 1 — Samples: 2588 RAM: 161 MB Level 1

L1 BH Perf-Legato Speed
L1 BH Articulation Combi
Preset Keyswitches: C2–C#2

### BH VSL Preset Level 2 — Samples: 7280 RAM: 455 MB Level 2

01 BH Perf-Universal
02 BH Perf-Trill Speed
L1 BH Articulation Combi
21 BH Perf-Repetitions - Combi
34 BH Combi - cre9
Preset Keyswitches: C2–E2