225 JAHRE GEBR. ALEXANDER MAINZ 1782 – 2007

# COMPLETE CATALOG


GEBR. ALEXANDER
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225 JAHRE GEBR. ALEXANDER MAINZ 1782 – 2007


*Germany's Oldest*
*Brass Instrument*
*Workshop*
*Established in 1782*

# 225 Years of Gebr. Alexander

Seven generations of crafting musical instruments has been handed down from father to son since the founding of the business in 1782, entirely within a single family. The name Gebr. Alexander has always stood for instruments of the highest and most innovative workmanship, and it has been the instrument makers themselves, from apprentice to master, whose skilled handiwork, years of experience and personal dedication have given the instruments of Gebr. Alexander their own distinctive character.


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*The eight hornists of the Berlin Philharmonic with their Alexander horns*

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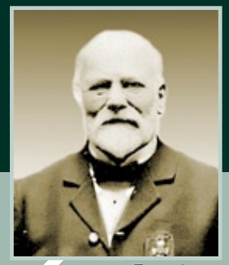
# CONTENTS

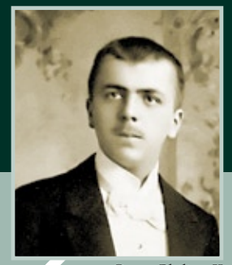
1782 - 2007

# SEVEN GENERATIONS OF THE ALEXANDER FAMILY

Philipp
(1787-1864)

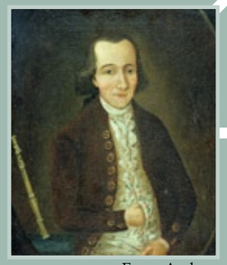


Franz Anton
(1838-1926)



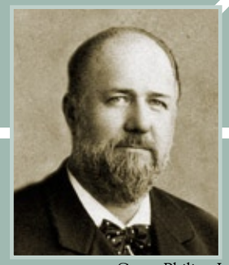
Georg Philipp II
(1879-1916)

Hans-Peter
(1948-2005)

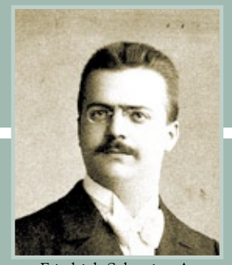


Franz Ambros
(1753-1802)

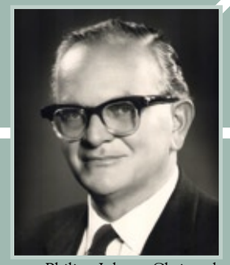
Kaspar Anton
(1803-1872)



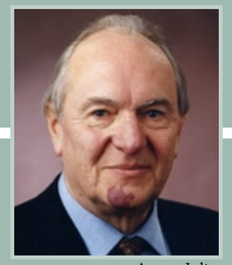
Georg Philipp I
(1843-1897)



Friedrich Sebastian Anton
(1873-1913)



Philipp Johann Christoph
(1904-1971)



Anton Julius
(*1935)

Georg Philipp III
(*1969)

**1782**
The workshop is located at Klarastraße 29

1

**1790**
Gebrüder Alexander (Alexander Bros.) moves to

2

**1909**
Gebr. Alexander moves to Bahnhofstraße 9

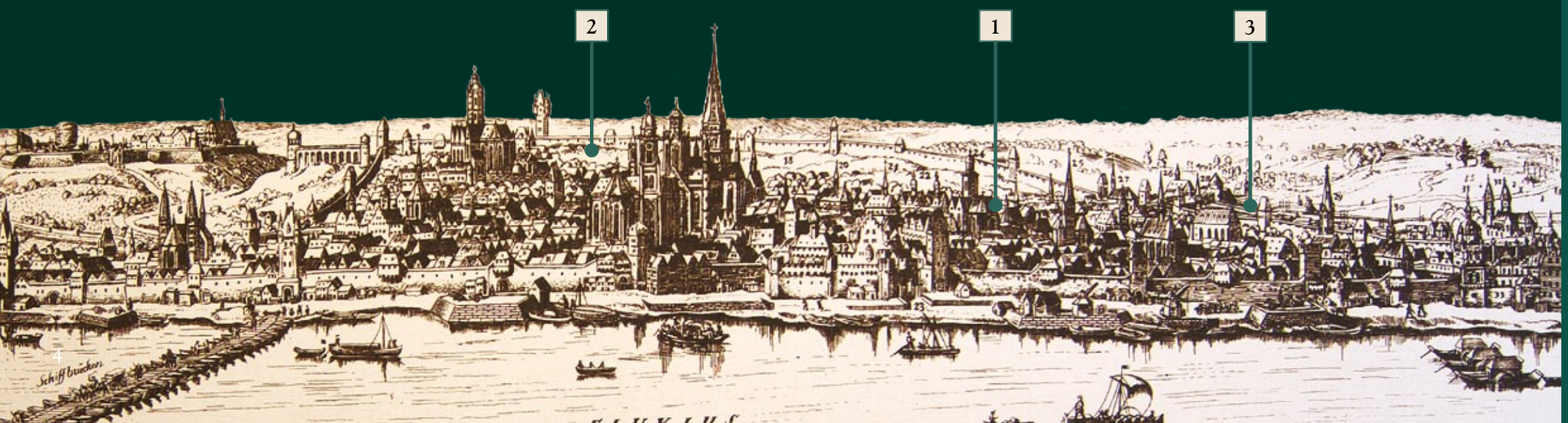
3

**1945**
The music shop and workshop are destroyed during the 2nd World War

**1952**
Assembly at the Bahnhofstraße locale after the 2nd World War

**1973**
The building was still being shared with a travel agency


**2007**
After renovations in 2002 the music shop gleams with new luster




1st Generation

## Franz Ambros Alexander

Franz Ambros Alexander came from an old French Huguenot family. In 1782 he relocated from Miltenberg am Main to Mainz, where he was accepted into the Craftsmen's Guild and established a small workshop for the making of musical instruments.

2nd Generation

## Philipp & Kaspar Anton

After the death of Franz Ambros, his widow and her sons Claudius, Martin and Philipp took over the business. In 1826 the trained woodwind builder Kaspar Anton Alexander returned to the firm.
In this period the manufacture of woodwind instruments took on particular importance as a shop for the sale of Alexander's own products was also opened.

3rd Generation

## Franz Anton & Georg Philipp

Beginning in 1864 Franz Anton, an excellent technician and musician, began work for the firm at which he would be a major and enduring influence. The younger Georg Philipp spent 5 years in Saxony, Vienna and Prague learning the art of brass instrument making. The production of brass instruments took on great importance at this time.
Richard Wagner, while on the quest for his Wagner tubas, sought out Alexander in Mainz in 1862.
In 1872 Georg Philipp joined the firm alongside his brother and business boomed, stimulated largely by the manufacture of brass instruments.

4th Generation

## Friedrich Sebastian Anton, Georg Philipp jr. & Franz Anton

1909 marked an important milestone in firm history with the development of Alexander's first full double horn, the Model 103. This patent marked the beginning of rapid development in horn design. In 1913 Friedrich Sebastian Anton died. Georg Philipp Jr. fell at Verdun in 1916. Their widows and the aged Franz Anton piloted the business through the First World War and the difficult years that followed.

5th Generation

## Philipp Johann Christoph

took over the firm in 1925. Years of worldwide financial catastrophe lay in the future. With great personal commitment he survived these as well as the following world war. The Second World War destroyed everything that the previous five generations had built. The business acumen of Philipp Johann Christoph, together with the determination of the employees who had survived the war and returned from detention, enabled the firm to swiftly recover its former significance.

6th Generation

## Anton Julius & Hans Peter Alexander

After the death of his father in 1971, Anton Julius became director of the now internationally respected firm. The brass instrument master craftsman acquired experience in travels across the globe and new knowledge through personal contact with leading performers. He and his first-rate team of specialists further improved the workmanship in the production process, enhancing the quality of the finished instruments.

7th Generation

## Georg Philipp Alexander

In 1992 the son of Anton Julius Alexander joined the business.
In 1999 he became its director, leading the now 225-year-old firm into the 21st century.
New technologies and their potential in the development and design of brass instruments are currently shaping the 3rd century of the firm's history.

# SINGLE HORNS

## Viennese F Horn 92

- Traditional Viennese construction
- Three Viennese “pumpen” valves
- Terminal crook in F

## Bb Horn 88

- Three valves

## Bb Horn 90

- Thumb valve in A
- Stopping extension

## F Horn 93

- 3 valves
- Eb crook

## Bb Horn 97

- Thumb valve in A
- Stopping extension
- 5th valve (2nd thumb valve) for F horn extension (open harmonics)

## Eb Alto Horn 141

- French horn form
- Available in models for left or right hand fingering

### F Horns

Most hornists today continue to recommend that their pupils begin learning the horn on a single F instrument. The reason behind this is that the F horn gives the most authentic horn sound, which is the best possible start for learning proper horn technique.

Of course, this is also possible to achieve by playing on the F side of the F/Bb double horn. However, there are two good reasons that a single F horn is preferable for a young beginner: it weighs much less than a double horn, and the lighter weight makes articulation easier.

### Bb Horns

The single Bb horn has much the same advantage of lightness that the single F horn offers. Single Bb horns are highly prized by “high” hornists because they can make strenuous challenges in opera or concert that much easier. Typically, single Bb horns will be found in chamber music and solo situations (see Model 90).

The sound of Bb horns is lean and supple. The notes in the low register below low Bb can be successfully played with a fourth extension replacing the stopping extension, or better yet —as with Model 97—with a separate extra fourth extension.

Models 89 and 90 can also be ordered with an extra set of 3 valve slides and main slide that convert the instrument into an F horn.

# DOUBLE HORNS

## F/Bb Double Horn 103

The world famous Alexander model, unequaled in tone quality and intonation

- Fully independent Bb and F valve slides

## F/Bb Double Horn 403S

- F/Bb change valve located in middle of reverse side of horn
- Very long leadpipe
- Mellow sound and easy articulation

## F/Bb Double Horn 102St

- compensating
- second thumb lever for A- and stopping extension

## F/Bb Double Horn 1103

- K Model
- Fully independent Bb and F valve slides

## F/Bb Double Horn 1104

- K Model
- Fully independent Bb and F valve slides

## F/Bb Double Horn 503

- Winner of the German Musical Instrument Prize, 1995 & 2005
- Similar to Model 1103
- F/Bb change valve set at 90°
- Fully independent Bb and F valve slides
- Available only in yellow brass

*A "complete" instrument designed to satisfy professional demands*

## F/Bb Double Horn 104

- Similar to Model 103
- With extra valve in E and A
- Stopping extension for Bb and F sides
- Two thumb valves

## F/Bb Double Horn 200

- Anniversary Model
- Similar to Model 1103
- Engraved nickel silver garland on bell flare

## F/Bb Double Horn 203St

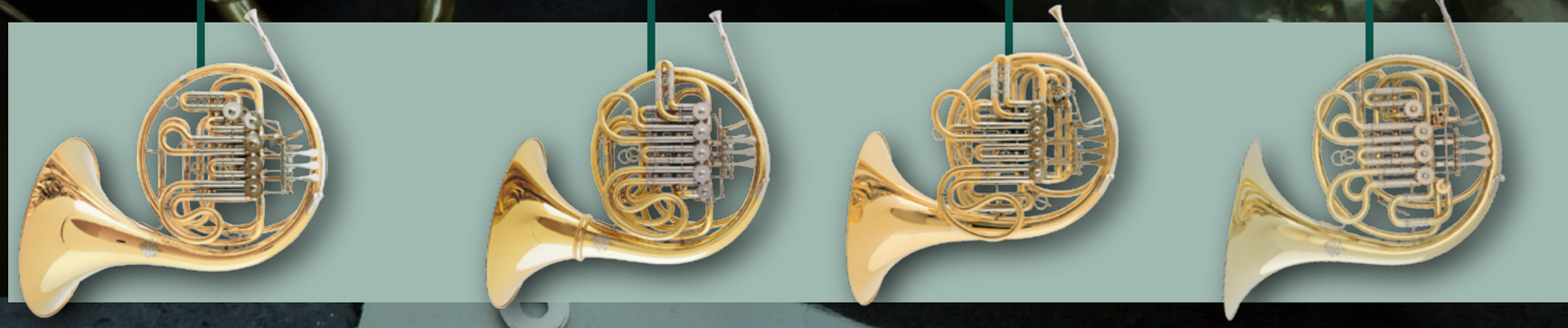
- Fully independent Bb and F valve slides
- Third ascending valve (French system)
- With valve in A and stopping valve
- Two thumb valves

## Double Horns

The double horn has established itself as the orchestral instrument of choice. The combination of full Bb and F horns offers the musician great flexibility in intonation and tone. There is also a definite correlation between mass and tonal projection.

With full double horns the thumb valve serves to change to either the shorter Bb horn or longer F horn. Gebr. Alexander furnishes some of its double horn models with an extra thumb valve in E/A, that with the addition of an extension can be used as a stopping valve (for example, Model 104 or 1104).

Some double horns are built according to the French "ascending" system, in which the third valve raises the pitch (in F as well as Bb) by a whole tone.



# DESCANT HORNS

## High Bb Descant Horn 99

- 3 valves
- Small bell

## High F Descant Horn 105

- Thumb valve optional (2 1/2 Semitones, or as preferred)
- Alternately available in G with F extension

## Bb/High F Double Descant Horn 107

- Fully independent Bb and F valve slides
- Tuning bit in mouthpiece receiver
- With additional thumb valve in A and stopping valve
- Two thumb valves

## Bb/High F Double Descant Horn 107X

*The Alexander Bb/High F Model 107X is based on the innovative design of the Model 301 triple horn which was introduced with great success in 2003.*
This has enabled the achievement of our goal: to construct a descant horn that provides articulation and tone similar to that of a F/Bb double horn.
The elimination of the tuning bit in the mouthpiece receiver and the employment of separate leadpipes and bell branches allows independent tuning of each side of the horn. The articulation and sound of the high F horn is also more homogenous. The long leadpipe gives the Bb horn a fuller sound. The Model 107X also allows the possibility of adding an F extension to the A valve in order to play the natural harmonics of the low F horn.
With this instrument Gebr. Alexander given horn players a new tool that makes the change from a full double horn to the descant horn a comfortable one.

## Descant Horns

Every hornist who deals with Baroque music is confronted with challenges that cannot be ideally met with standard orchestral instruments. Firstly the parts are written very high, and secondly the desired tone is not the mellow Romantic sound, but bright and lustrous—emphasizing the relationship to the Baroque hunting horn.

For such special challenges Gebr. Alexander developed the descant horns Model 99 in high Bb, Model 105 in high F and Model 105 in high G with F extension. These instruments can be furnished in models with either 3 or 4 valves. They are made exclusively with a narrow bore.

## Double Descant Horns

Today, when technical perfection has raised the level of all things, increasing numbers of hornists demand instruments that offer more security while still providing the ideal Romantic sound. The challenge here is to successfully combine the rich tone of the Bb horn with the increased security of the high F horn. Gebr. Alexander has worked on this problem for many years, and the latest result is the Bb/high F double descant horn Model 107X.

# TRIPLE HORNS

## F/Bb/High F Triple Horn 303

- In F/Bb/high F or Bb/F/high F
- Fully independent valve slides
- Tuning bit in mouthpiece receiver

## F/Bb/High F Triple Horn 309

- With compensating low F side

## F/Bb/High F Triple Horn 310

- Thumb valves customizable to stand in preferred key (specify with order)
- Fully independent valve slides
- Easy to use 3-way thumb valve

## F/Bb/High F Triple Horn 301

The completely newly developed full triple horn Model 301 in F/Bb/high F fills an important need for professional horn players.
Many hornists have been searching for a full triple horn with the sound characteristics of the famous Alexander model 103. This was achieved only with a solution that was as brilliant as it was complex. The placement of a valve where the leadpipe meets the bell branch allowed a high F horn to be incorporated into the basic design of the Model 103.
In this way the desirable characteristics of the Model 103 were not altered. The original dimensions were kept and the F/Bb change valve remained in its former location. The high F horn received a separate bell branch and through this could be optimized further. The use of different bores was consciously avoided in order to retain evenness of sound and articulation.
In the end, the musician receives a reliable double horn with the option of shifting to the high F horn for especially difficult passages, and the transition from double horn to triple horn is made an effortless one.

# NATURAL HORNS

## Parforce Horn in Bb/Eb 1177

- Normal horn bore
- Especially precise key change valve with feathered mechanism for easy response
- 2 water keys
- Brilliantly polished finish
- Without leather wrap
- Body Ø 435 mm

## Parforce Horn in Eb 1179

- Normal horn bore
- Tubing double wrapped
- Brilliantly polished finish
- Without leather wrap
- Body Ø 435 mm

## Historical Natural Horn in C 290

- “Halari” Model
- Bore 11.3 mm
- Bell flare Ø 280 mm
- Yellow brass garland
- Terminal crooks insert at leadpipe
- Made in yellow brass
- Terminal crooks:
  Bb, A, G, F, E, Eb, D, C, Bb-basso

Crooks for less common keys are available by special order

## Natural Horn in F 194

- Normal horn bore
- Nickel silver appointments and slide sleeves
- Combinable crooks:
  E, Eb, D, C, Bb-basso

Combinable crooks are joined to attain the desired key.
This system has the advantage of being space-saving:
the horn and all its crooks will fit into a normal horn case.

# WAGNER TUBAS

Wagner Tubas

In 1862 Richard Wagner was residing in Biebrich, across the Rhine from Mainz, while composing *Die Meistersinger von Nürnburg*. At the same time he was searching for a new tone color for *Der Ring des Nibelungen*, one that the known instruments of the time could not provide. In cooperation with the firm of Gebr. Alexander he was able to refine his conception of an instrument whose tone lay between the horn and the baritone.
The Wagner tuba has been continuously improved over the passage of time to meet the exacting standards of orchestral use. Today Wagner tubas made by Gebr. Alexander are played in leading orchestras around the world. In addition to the typical Bb and F tubas, Alexander offers a Bb/F full double Wagner tuba.
The typical Wagner tuba section is comprised of two F and two Bb Wagner tubas—but double tubas can replace these as desired.

Richard Wagner
Festspielhaus Bayreuth



## Wagner Tuba in Bb 108

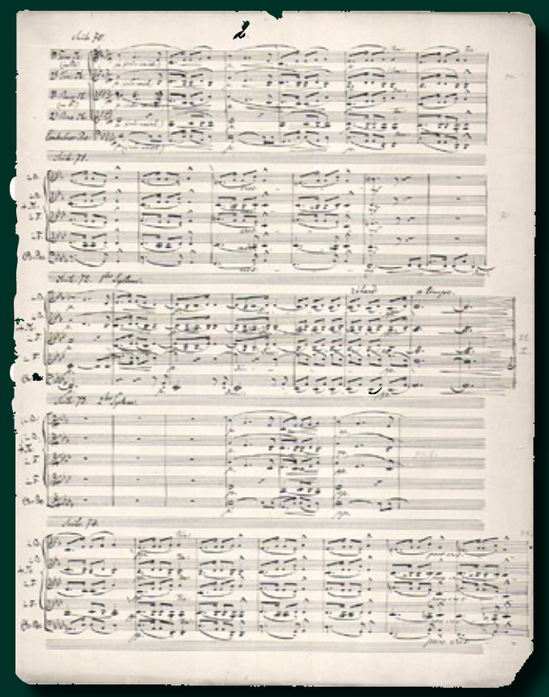
- Original “Ring” type
- 4 valves, left-handed fingering

## Wagner Tuba in F 111

- Original “Ring” type
- 4 valves, left-handed fingering

## Double Wagner Tuba in F/Bb 110

- Double Wagner tuba
- 3 Valves plus thumb valve
- Full double
- Fully independent valve slides



Authorized by
Richard Wagner, this manuscript of Wagner tuba excerpts from *Das Rheingold* is in the possession of the Alexander family.

# TENOR HORNS AND BARITONES

## Tenor Horns and Baritones

Alexander tenor horns and baritones are characterized by their broadly proportioned but light construction. The body is bent in one piece, and the entire series is furnished with nickel silver appointments on the main bugel. The series is complemented by a 4 valve tenor horn (Model 146) that Alexander can produce by special order. The large bore of the instruments yields a full, characteristic sound in all registers. The baritone tuba (Spanish baritone) Model 151 was originally the preference of Spanish Banda musicians. Since then the baritone tuba has proven itself a worthwhile substitute for the euphonium. The bore of the tubing is taken from the baritone, but the expansion of bell branch and bell is much more pronounced. If desired, the instrument can be furnished with an auxiliary valve .

### Bb Tenor Horn 145

- 3 rotary valves
- Bore 13.5 mm
- Bell flare Ø 250 mm

### Bb Baritone Tuba 150

- Broad oval form
- 4 rotary valves
- Nickel silver appointments
- Bore 15.5 mm
- Bell flare Ø 270 mm
- Nickel silver garland on bell flare

### Bb Baritone Tuba 151

- 4 rotary valves
- Upright form
- Nickel silver appointments
- Bore 15.5 mm
- Bell flare Ø 310 mm
- Nickel silver garland on bell flare

*Pictured with optional auxiliary valve*

# TUBAS

## Bb Tuba 164

- “Kaiser” tuba
- 4 rotary valves
- Nickel silver appointments
- Bore 21.5 mm
- Bell flare Ø 450 mm
- Height 1060 mm

## Bb Tuba 163

- Alternative to C tuba
- Broad form
- 4 rotary valves
- Nickel silver appointments
- Bore 20.5 mm
- Bell flare Ø 450 mm
- Height 1030 mm

## C Tuba 173

- 5 rotary valves
- Thumb valve for right hand (2 whole tones)
- Nickel silver garland on bell flare
- Bore 19.5 mm
- Bell flare Ø 450 mm
- Height 1030 mm

## F Tuba 157

- Broad form
- 4 rotary valves for right hand
- 2 auxiliary valves for left hand
- Valve length to custom order
- Nickel silver garland on bell flare
- Bore 18.5 mm
- Bell flare Ø 380 mm
- Height 970 mm

## F Tuba 155

- Broad form
- 4 rotary valves
- Auxiliary valve for left hand or thumb valve for right hand
- 5/4 tone or length as specified
- Nickel silver garland on bell flare
- Bore 18.5 mm
- Bell flare Ø 380 mm
- Height 970 mm

# TRUMPETS AND FLUEGELHORNS

## Bb Trumpet 1018

- 3 precision piston valves made of stainless steel
- Bore 11.5 mm
- Bell flare Ø 130 mm

## Bb Concert Trumpet 6

- 3 rotary valves
- Bore 11.0 mm
- Bell flare Ø 135 mm

## C Bass Trumpet 19

- If desired also in Bb
- 4 rotary valves
- Bore 12.5 mm
- Bell flare Ø 160 mm

## Bb Fluegelhorn 70

- 3 rotary valves
- Tuning bit in mouthpiece receiver
- Bore 11.0 mm
- Bell flare Ø 150 mm

## Bb Fluegelhorn 1070

- 3 precision piston valves made of stainless steel
- Tuning bit in mouthpiece receiver
- Bore 11.30 mm
- Bell flare Ø 150 mm

## Natural Trumpet in Eb 36

- Patterned after historical models
- Engraved bell with garland on flare
- Tuning bit in mouthpiece receiver
- Bore 12.1 mm
- Bell flare Ø 140 mm

# TECHNICAL SPECIFICATIONS

- Please inquire about special requests and the custom alterations that are available .
- For a surcharge, all horn models can be constructed for right-handed fingering.
- Surface finish: lacquer, silver plating, gold plating, or partial lacquer, silver plating and gold plating are all available according to customer preference.
- The valve slides of all instruments are made from hardened precision nickel silver tubing (historically constructed instruments excepted).
- Horns are regularly delivered with a complete set of accessories, which consists of Alexander valve oil, Alexander Unibal oil, Alexander storage oil, Alexander slide grease, pencil with special holder, leather hand guard, maintenance manual and mouthpiece.
- All other instruments come with instrument-specific accessories, such as: Alexander valve oil, Alexander Unibal oil, Alexander storage oil, Alexander slide grease, maintenance manual and mouthpiece.
- Further extras, individual options and accessories are listed in the current price list.

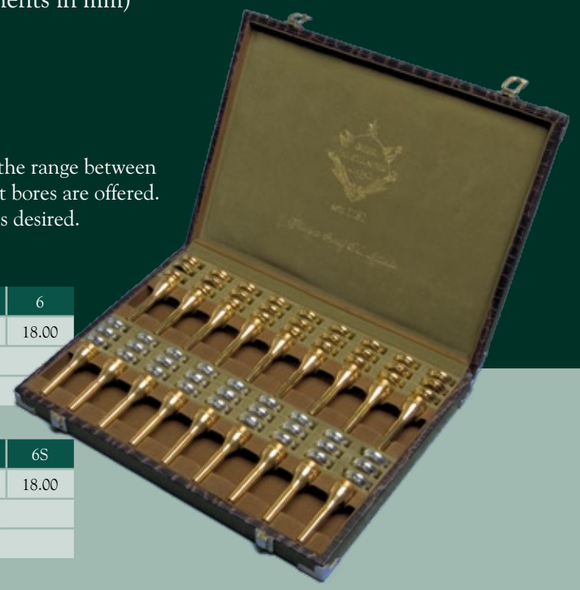
| | Single Horns | | | | | | Double Horns | | | | | | | | | Compensating Horns | | Descant Horns | | | | Triple Horns | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | 92 | 93 | 88 | 90 | 97 | 141 | 503 | 403S | 101 | 103 | 104 | 1103 | 1104 | 200 | 203St | 102 | 102St | 99 | 105 | 107 | 107X | 303 | 309 | 310 | 301 |
| Key | F | F | Bb | Bb | Bb | Eb alto | F/Bb or Bb/F | F/Bb or Bb/F | F/Bb or Bb/F | F/Bb or Bb/F | F/Bb or Bb/F | F/Bb or Bb/F | F/Bb or Bb/F | F/Bb or Bb/F | F/Bb or Bb/F | F/Bb or Bb/F compensating | F/Bb or Bb/F compensating | high Bb | high F | Bb/high F | Bb/high F | F/Bb/high F | F/Bb/high F compensating | F/Bb/high F | F/Bb/high F |
| Bore | 11.0 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm | 12.1 mm |
| Bell Flare Diameter | 290 mm | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm | 290 mm | 290 mm | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm | 310 mm |
| Bell Throat | Small | Medium large | Medium large | Medium | Medium | Medium | Medium large | Medium | Large | Medium | Medium | Medium large | Medium large | Medium | Medium large | Medium large | Medium large | X-small | Small | Medium | Medium | Medium | Medium | Medium | Medium |
| Body Size | Large | Large | Large | Medium | Medium | Large | Large | Large | Large | Medium | Medium | Large | Large | Large | Large | Large | Large | Small | Small | Medium | Medium | Medium | Medium | Medium | Medium |
| Metal Type | Yellow brass | Yellow brass, Gold brass | Yellow brass, Gold brass | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, | Yellow brass | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass | Yellow brass, Gold brass | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver | Yellow brass, Gold brass, Nickel silver |
| Valve Arrangement | Inline | Inline | Inline | Inline | Inline | Inline | Inline | Offset, reverse (Alexander Type) | Offset (Alexander Type) | Offset (Alexander Type) | Offset (Alexander Type) | Inline | Inline | Inline | Inline | Inline | Offset | Inline | Inline | Offset | Inline, in leadpipe at bell branch | Offset | Offset | Offset | Offset, in leadpipe at bell branch (Alexander Type) |
| Number of Valves | 3 | 3 | 3 | 4 | 5 | 3 | 4 | 4 | 4 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 3 | 3 | 6 | 5 | 6 | 6 | 5 | 5 |
| Number of Thumb Valves | / | / | / | 1 | 2 | / | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | / | / | 2 | 2 | 2 | 2 | 2 | 2 |
| Finger Valve Action | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal, Simple construction | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal |
| Thumb Valve Action | / | / | | Minibal | Minibal | / | Minibal, Simple construction | Minibal | Minibal | Minibal | Minibal | String action | String action | String action | Minibal | Minibal | Minibal | / | / | Minibal | String action | Minibal | Minibal | String action | Minibal/String action |
| Recommended Mouthpiece | 8L | 8L | 8M | 8M | 8M | 8M | 8M | 8M | 8L | 8M | 8M | 8M | 8M | 8M | 8M | 8M | 8M | 5 | 5 | 8FM | 8FM | 8FM | 8FM | 8FM | 8M |
| Supplied With | With F terminal crook | With Eb crook | | With thumb valve in A and stopping extension | With thumb valve in A and stopping extension, with 5th valve as thumb valve for natural F horn harmonics | French horn form, left or right hand fingering | | | | | E/A thumb valve and stopping extension for F and Bb horn | | E/A thumb valve and stopping extension for F and Bb horn | Nickel silver garland on bell flare with engraved Alexander logo | Ascending 3rd valve, thumb valve in A and stopping extension | | Thumb valve in A and stopping extension | | | Thumb valve in A and stopping extension, Tuning bit in mouthpiece receiver | Thumb valve in A and stopping extension, double leadpipe and bell branch, separate tuning slides | Tuning bit in mouthpiece receiver, adaptable pinkie hook and flipper | Low F horn side enabled by extension slides (compensating), adaptable pinkie hook and flipper | Tuning bit in mouthpiece receiver, 3-way change valve, adaptable pinkie hook and flipper | Independent high F horn through double leadpipe and bell branch, Separate tuning slides, adaptable pinkie hook and flipper |
| Special Features | Traditional Viennese construction with 3 "pumpen" valves | | | | | | Winner of the German Musical Instrument Prize, 1995 & 2005 | F/Bb change valve located in middle of reverse side of horn, making for better balance, Valves rotate with the air stream, which creates less extraneous noise | Similar to Model 103 Large-throated bell | The world famous Alexander model, unequaled in tone quality and intonation | Similar to Model 103 | K Model | Similar to Model 1103 | Anniversary Model for the firm's 200th birthday | French system (ascending 3rd valve) | compensating | compensating | | Also available in G with F extension | | | B/F/high F combination also possible | compensating, B/F/high F combination also possible | Thumb valves customizable to stand in preferred key (please specify with order) | Similar to Model 103 Thumb valves customizable to stand in preferred key |
| Options | | | Set of slides to alter key to F | Set of slides to alter key to F, F extension | | | | | | | | | | | | | | | Optional thumb valve (length as specified, or the standard 2 1/2 semitones) | F extension | F extension | | | | |

# TECHNICAL SPECIFICATIONS

- Please inquire about special requests and the custom alterations that are available .
- For a surcharge, all horn models can be constructed for right-handed fingering.
- Surface finish: lacquer, silver plating, gold plating, or partial lacquer, silver plating and gold plating are all available according to customer preference.
- The valve slides of all instruments are made from hardened precision nickel silver tubing (historically constructed instruments excepted).
- Horns are regularly delivered with a complete set of accessories, which consists of Alexander valve oil, Alexander Unibal oil, Alexander storage oil, Alexander slide grease, pencil with special holder, leather hand guard, maintenance manual and mouthpiece.
- All other instruments come with instrument-specific accessories, such as: Alexander valve oil, Alexander Unibal oil, Alexander storage oil, Alexander slide grease, maintenance manual and mouthpiece.
- Further extras, individual options and accessories are listed in the current price list.

| Instrument Type | Natural Horns | | Wagner Tubas | | | Parforce Horns | | Trumpets & Fluegelhorns | | | | | | Tenor Horns & Baritones | | | Tubas | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | 194 | 290 | 108 | 111 | 110 | 1177 | 1179 | 1018 | 6 | 19 | 70 | 1070 | 36 | 145 | 150 | 151 | 164 | 163 | 173 | 157 | 155 |
| Key | F | C alto | Bb | F | F/Bb or Bb/F | Bb/Eb or Eb/Bb | Eb | Bb | Bb | C | Bb | Bb | Eb | Bb | Bb | Bb | Bb | Bb or C | C | F | F |
| Bore | 12.1 mm | 11.3 mm | 12.5 mm | 13.5 mm | 13.5 mm | 12.1 mm | 12.1 mm | 11.5 mm | 11.0 mm | 12.5 mm | 11.0 mm | 11.0 mm | 12.1 mm | 13.5 mm | 14.5 mm | 15.5 mm | 21.5 mm | 20.5 mm | 19.5 mm | 18.5 mm | 18.5 mm |
| Bell Flare Diameter | 310 mm | 280 mm | 230 mm | 250 mm | 250 mm | 310 mm | 310 mm | 130 mm | 135 mm | 160 mm | 150 mm | 150 mm | 140 mm | 250 mm | 270 mm | 310 mm | 450 mm | 450 mm | 450 mm | 380 mm | 380 mm |
| Bell Throat | Medium | Medium small | Medium | Large | Large | Medium | Medium | Medium/ML | Medium | Medium | Medium | Medium | Medium | Large | Large | Large | Extra Large | Large | Large | Large | Large |
| Body Size | Large | Medium | | | | | | | | | | | | | | | | | | | |
| Metal Type | Yellow Brass | Yellow Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass | Yellow Brass, Gold Brass |
| Valve Arrangement | / | / | Inline | Inline | Rectangular | / | / | Inline | Inline | Inline | Inline | Inline | / | Inline | Inline | Inline | Inline | Inline | Inline | Inline | Inline |
| Number of Valves | / | / | 4 | 4 | 4 | 1 | / | 3 | 3 | 4 | 3 | 3 | / | 3 | 4 | 4 (5) | 4 (5) | 4 (5) | 5 | 6 | 5 |
| Number of Thumb Valves | / | / | / | / | 1 | 1 | / | / | / | / | / | / | / | / | / | (1) | (1) | (1) | 1 | / | (1) |
| Finger Valve Action | / | / | Minibal | Minibal | Minibal | / | / | / | Minibal | Minibal | Minibal | / | / | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal | Minibal |
| Thumb Valve Action | / | / | / | / | Minibal | Minibal | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| Recommended Mouthpiece | 8M | 8M | MY15 | MY15 | MY15 | MY15 | MY15 | 7C | 7C | JK P15C | JK FL3C | JK FL3C | 7C | JK P15C | JK P6CL | JK P6CL | JK T1A | JK T3A | JK T3A | JK T7A | JK T7A |
| Supplied With | Normal horn bore, nickel silver appointments and slide sleeves | Yellow brass garland on bell flare with engraved Alexander logo, Historical copy of the "Halari" model, Terminal crook in leadpipe | Left-handed fingering | Left-handed fingering | Left-handed fingering | Hunting horn bore, 2 water keys, brilliantly polished finish, Body size Ø 435 mm | Hunting horn bore, double wrapped, brilliantly polished finish, Body size Ø 435 mm | Precision stainless steel Perinet valves, 3rd valve "glissando" slide | Rotary valves | Rotary valves, "Glissando" on main tuning slide | Rotary valves | Precision stainless steel Perinet valves, Tuning bit in mouthpiece receiver | Yellow brass garland on bell flare with engraved Alexander logo, Tuning bit in mouthpiece receiver | | Broad oval construction, Nickel silver garland on bell flare with engraved Alexander logo | Upright form | "Kaiser" tuba, Height 1060 mm, Nickel silver garland on bell flare with engraved Alexander logo | Broad construction, Height 1030 mm, Nickel silver garland on bell flare with engraved Alexander logo | Thumb valve placed to right (2 whole tones), Height 1030 mm, Nickel silver garland on bell flare with engraved Alexander logo | Broad construction, Height 970 mm, 4 valves for right hand, 2 auxilliary valves for left hand, Length as specified, Nickel silver garland on bell flare with engraved Alexander logo | Broad construction, Height 970 mm, Auxiliary valve for left hand or thumb of right hand, 5/4 tone or length as specified, Nickel silver garland on bell flare with engraved Alexander logo |
| Special Features | | Intonation A=440 Hz | | | Rectangular valve arrangement | | | | | Also available in Bb | | | Copied from historical models | | | | | Also available in C | | | |
| Options | Combinable crooks, which fit into a normal horn case | Terminal crooks in all keys, matching historical wood case for horn and 8 crooks available | | | | Leather wrap optional | Leather wrap optional | | 3rd valve "glissando" slide optional | | 3rd valve "glissando" slide optional | | | Also available as Model 146 with 4th valve (2 1/2 whole tones) | | Auxiliary valve for left hand or right hand optional, length as specified | Auxiliary valve optional, length as specified | Auxiliary valve optional | | | Additional valve available for lowering pitch by a perfect fifth |

# HORN MOUTHPIECES (measurements in mm)



## *Exclusive Line*

In this elaborate mouthpiece series Gebr. Alexander presents mouthpieces that cover the range between 17 mm and 18 mm in degrees of 0.125 mm. Two different cup depths and two different bores are offered. These are complemented by three distinctly formed rims, gold plated or silver plated as desired.

| Standard Model | 4 | 4½ | 4¼ | 4¾ | 5 | 5½ | 5¼ | 5¾ | 6 |
|---|---|---|---|---|---|---|---|---|---|
| Inner Rim Ø (mm) | 17.00 | 17.125 | 17.250 | 17.375 | 17.50 | 17.625 | 17.75 | 17.875 | 18.00 |
| Cup Depth | Cup taper slightly steep | | | | | | | | |
| Bore | 4.6 mm with standard bore | | | | | | | | |

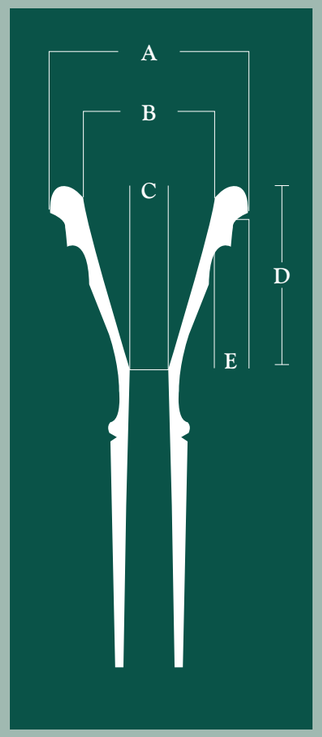
| S Model | 4S | 4½S | 4¼S | 4¾S | 5S | 5½S | 5¼S | 5¾S | 6S |
|---|---|---|---|---|---|---|---|---|---|
| Inner Rim Ø (mm) | 17.00 | 17.125 | 17.250 | 17.375 | 17.50 | 17.625 | 17.75 | 17.875 | 18.00 |
| Cup Depth | Cup taper rounded | | | | | | | | |
| Bore | 4.4 mm with cylindrical bore | | | | | | | | |

### Exchangeable Rims

Three separate rims with contrasting shapes are available for every mouthpiece, gold plated or silver plated as desired.

| Rims | O | R | W |
|---|---|---|---|
| Shape | Lightly rounded | Flat | Rounded |
| Rim Width (mm) | 4.05 | 4.10 | 4.32 |

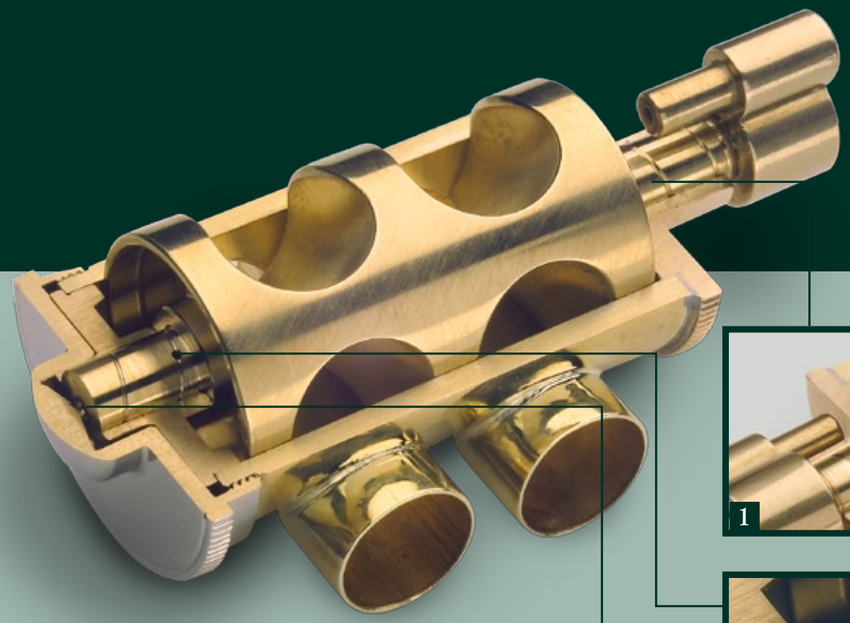
## *Basic Line*

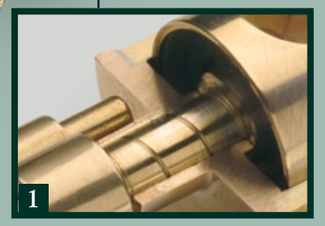


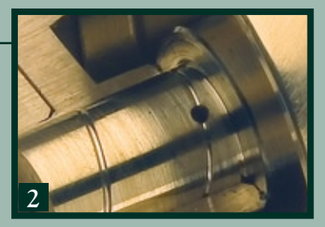

| No. | A Ø Outer Rim | B Ø Inner Rim | C Ø Throat Bore | D Cup Depth | E Rim Width |
|---|---|---|---|---|---|
| 4 | 24.5 | 16.5 | 3.7 | 18.0 | 4.00 |
| 5 | 24.8 | 16.8 | 3.7 | 26.0 | 4.00 |
| 6 | 25.0 | 17.0 | 3.7 | 29.0 | 4.00 |
| 7 | 25.5 | 17.5 | 3.7 | 19.0 | 4.00 |
| 8 | 25.5 | 17.5 | 3.7 | 28.0 | 4.00 |
| 8F | 25.5 | 17.5 | 3.7 | 24.0 | 4.00 |
| 8FM | 25.5 | 17.5 | 4.0 | 24.0 | 4.00 |
| 8M | 25.5 | 17.5 | 4.0 | 28.0 | 4.00 |
| 8L | 25.5 | 17.5 | 4.2 | 28.0 | 4.00 |
| 9F | 25.0 | 17.0 | 3.7 | 29.0 | 4.00 |
| 9 | 25.5 | 17.5 | 3.7 | 31.0 | 4.00 |
| 10 | 27.5 | 18.0 | 4.3 | 18.0 | 4.75 |
| 11 | 27.5 | 18.0 | 4.3 | 26.0 | 4.75 |
| 12 | 27.0 | 17.5 | 4.3 | 30.0 | 4.75 |
| MY13 | 24.5 | 17.0 | 4.8 | 31.0 | 3.75 |
| MY15 | 25.0 | 17.5 | 4.5 | 32.0 | 3.75 |
| MY9 | 25.0 | 17.5 | 5.1 | 31.0 | 3.75 |
| 21 | 25.0 | 17.5 | 4.0 | 26.0 | 4.00 |
| 22 | 25.0 | 17.5 | 4.0 | 28.0 | 4.00 |
| 23 | 25.0 | 17.5 | 4.0 | 31.0 | 4.00 |
| 31 | 26.5 | 18.0 | 4.2 | 27.0 | 4.25 |
| 32 | 26.5 | 18.0 | 4.2 | 28.0 | 4.25 |
| 33 | 26.5 | 18.0 | 4.2 | 33.0 | 4.25 |
| 41 | 28.0 | 18.5 | 4.2 | 26.0 | 4.75 |
| 42 | 28.0 | 18.5 | 4.2 | 28.0 | 4.75 |
| 43 | 28.0 | 18.5 | 4.2 | 29.0 | 4.75 |

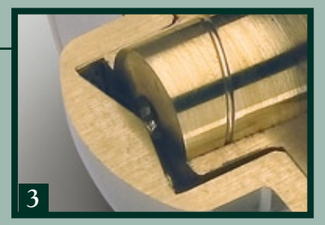


# VALVES WITH THE LUBRICATIONCHANNEL






*1. Lubrication grooves at top of spindle*

*2. Oil exit point in lubrication channel*

*3. Oil application point through axial bore hole*

*The patented solution for easily maintained and wear-resistant rotary valves in new instruments from Gebr. Alexander.*

For oiling, the valve cap is simply removed and oil then applied to the exposed spindle surface. The self-cleaning effect of the lubrication channels makes upkeep a very easy chore. As the instrument is played the new lubrication system will be evident in the smoother movement of the valves. This is caused by the evenly spread film of oil which forms between the sliding surfaces.

The oil enters the valve by means of a spiral groove which runs from top (Picture 1) to bottom of the spindle. At the bottom of the spindle the oil is applied through an axial bore hole (Picture 3). Oil reaches the lubrication channels through a radial bore hole (Picture 3). At the top of the spindle the oil is directed to the lubrication channel. The movement of the valve distributes the oil evenly between the sliding surfaces. The oil that remains in the axial bore hole serves as a reservoir to guarantee ample lubrication. This also ensures that the application of too much oil is avoided.

## Picture Captions

| | | | | | |
|---|---|---|---|---|---|
| 1 | 4 | 6 | 7 | 6 | 9 |
| 2 | 3 | 5 | 8 | | 8 |

1 License for the establishment of the firm, 1782
2 Certificate naming Alexander as purveyor to the court of Ernst Ludwig von Hessen, 1808
3 Certificate naming Alexander as purveyor to the court of Friedrich von Anhalt, 1806
4 The firm's 100-year anniversary, 1882
5 Original patent for the Model 103, 1909
6 Environment Award from the state of Rhineland-Palatinate, 2001
7 Recognition of craftsmanship given to Carl Carstons, 1984
8 Reception of the German Musical Instrument Prize, 2005 Rezzo Schlauch with Georg Philipp Alexander
9 Concert marking the renovations in 2003, featuring the hornists Sarah Willis, Claudia Strenkert, Sibylle Brigitta Mahni and Karen Schade