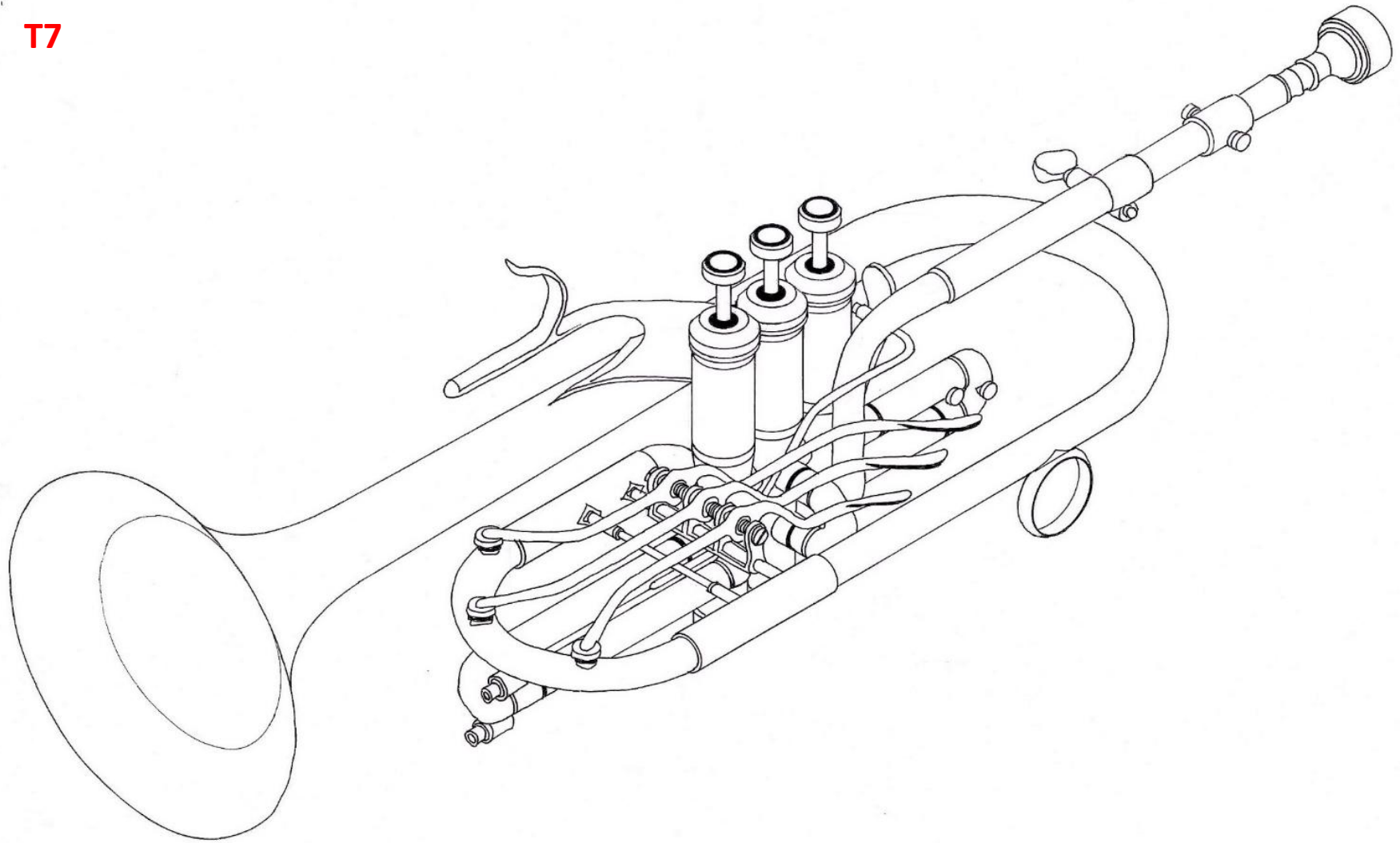


T7



The **T7** trumpet combines the best of rotary and piston technologies and ergonomics. It is:

- the first trumpet to deliver the classical and romantic Austro-German tone and lyricism **through piston valves**
- the first trumpet to offer **left-handed Vienna keys** in combination with piston valves
- the first trumpet ergonomically designed *a priori* for **optimum posture, breathing, stamina and health.**

The **T7** will satisfy the piston player seeking the flexibility of rotary and piston performance in one instrument on repertoire from Schumann to Stravinsky

The **T7** is musically and tonally flexible, better in tune, easier to play, and has the best trumpet ergonomics.

The **T7** is a true innovation resulting from laboratory, performance and market research.

True innovations - original, necessary, sustainable and viable - have been supported by significant developments in by Vincent Bach, Reynold Schilke, David Monette, Smith Watkins, and the Yamaha Corporation.

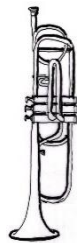
The seven true innovations in trumpet architecture:



1796  
the  
keyed bugle



1825  
Nathaniel Adams'  
invention of the 3-valved  
rotary trumpet



1828  
entry of the 3-valved F/G  
alto trumpet into the  
orchestra



1839  
patenting of the modern  
piston valve by François  
Périeret



1850  
entry of the 3-valved Bb /  
C mezzo trumpets into the  
orchestra



1857  
patenting of the TARV  
trumpet



2021  
**T7**

## T7 WHY?

There is now a growing demand for piston players to deliver rotary tonality and lyricism.



*"For a person wanting an orchestra job in the US, playing a rotary is becoming expected. All the major US orchestras ...are requiring rotary trumpets in auditions."*

**David Bilger**  
Principal Trumpet  
The Philadelphia  
Orchestra



*"I have daily sessions on both Bb and C rotaries. I have seen big gains...in the clarity and presence of my sound on piston trumpet... thanks to my increased practice on rotary valves."*

**Chris Martin**  
Principal Trumpet  
New York Philharmonic  
Orchestra



*"Playing successfully on the rotary trumpet makes the piston trumpet feel that much more comfortable."*

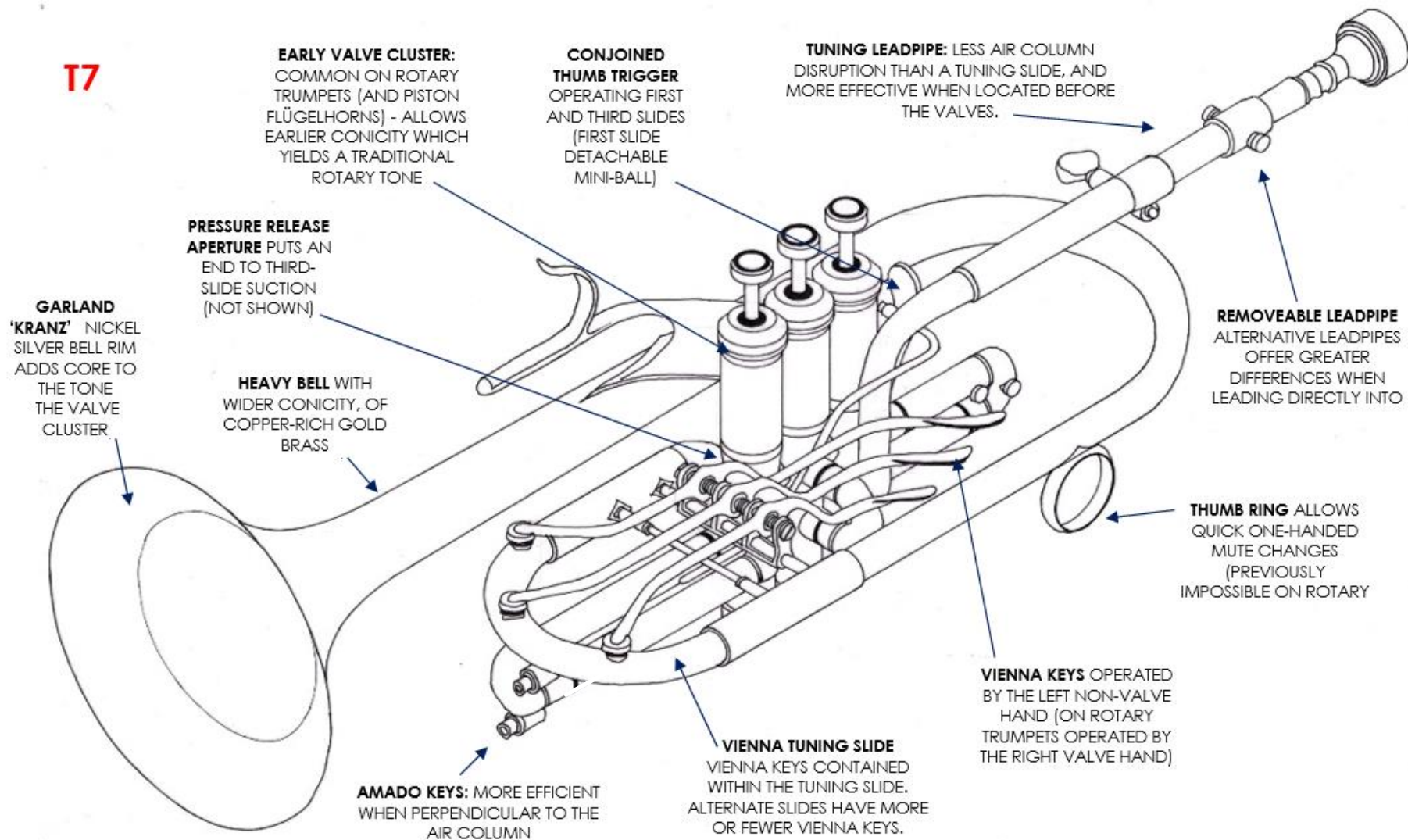
**Adolph Herseth**  
Emeritus Principal Trumpet  
Chicago Symphony  
Orchestra



*"The rotary trumpet has a glorious, noble tone of fascinating beauty and unique quality."*

**Vincent Bach**  
Soloist, designer and  
manufacturer of rotary  
and piston trumpets

**T7**



## T7 CHARACTERISTICS ...

- a rotary trumpet's tone quality, lyricism, and musical flexibility
- a better pitch profile resulting from the early position of the valve cluster in the air column
- a piston trumpet's articulation, clarity and dynamic reach
- ergonomically designed for optimum posture, better breathing, reduced stress, extended stamina, and overall health and well-being
- *"feels better, looks better, sounds better"* ... the enhanced aesthetic impact of the larger bell and player's posture beguiles audiences.

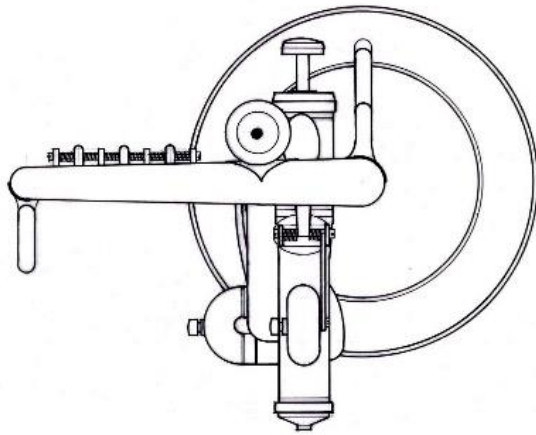
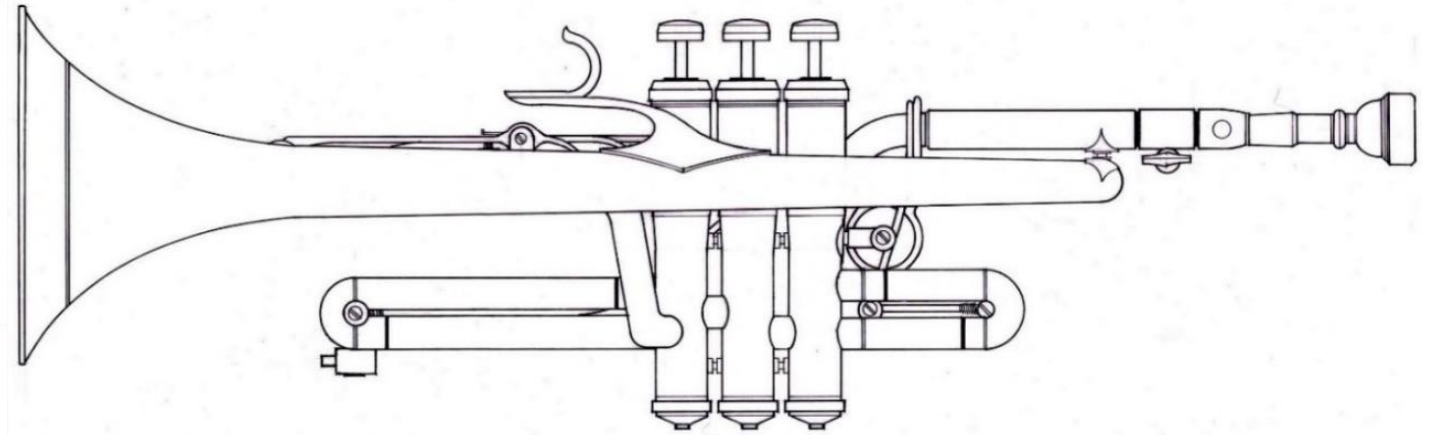
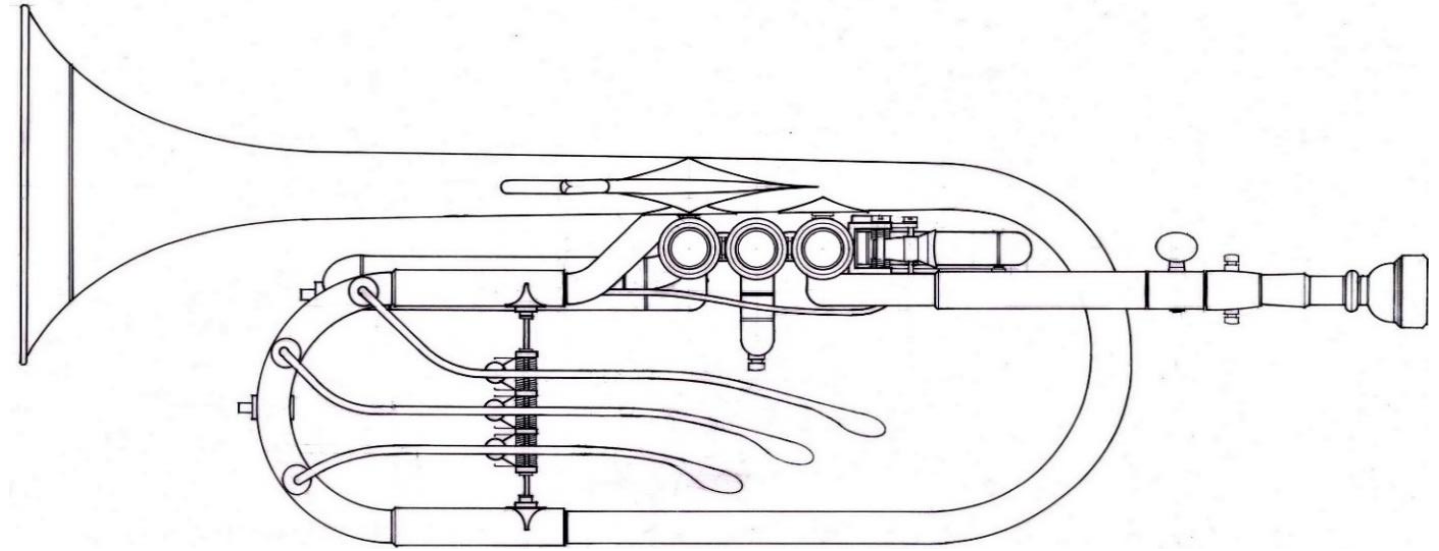
## T7 FEATURES ...

- balanced ergonomics optimising performance and well-being
- the early valve cluster leads to earlier conicity and to the tone associated with rotary trumpets
- Vienna keys operated independently by the left hand ... not by the right valve-hand as on rotary trumpets
- quick mute changing, unavailable on traditional rotary trumpets
- interchangeable tuning leadpipes; tuning is more effective and efficient at the leadpipe
- pressure release aperture on the third valve casing to eliminates suction
- conjoined first / third trigger with a decoupling mini-ball connector
- Amado waterkeys set perpendicularly to optimise performance

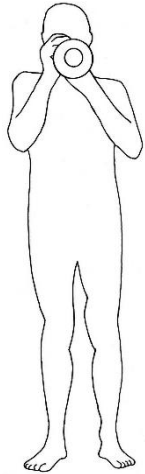
## T7 INNOVATIONS ...

- the first combination of Vienna keys with piston valves
- the first use of Vienna keys operated independently by the non-valve hand
- the first placement of the valve cluster close to the mouthpiece on a piston trumpet
- the first trumpet designed a priori from ergonomic principles

**T7** PROTOTYPE DRAWINGS



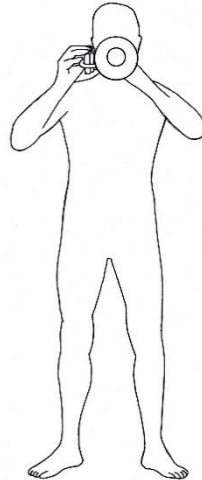
## T7 POSTURAL ERGONOMICS



**piston**

The instinctive body posture of a piston trumpet player.....

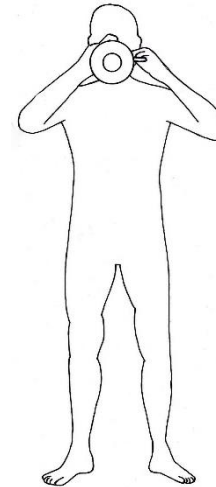
- ★ elbows pressed in to support the front-heavy trumpet, closing the neck and chest, obstructing optimum breathing
- ★ hunching of the right shoulder risking to muscular spasm and stiffness
- ★ a slightly lowered centre of gravity, curved spine and a slightly lowered body height with feet closer together



**rotary**

The instinctive posture of a rotary trumpet player.....

- ★ elbows outward, relaxing and opening the neck and chest to an optimum breathing posture
- ★ legs slightly apart and feet more open (to compensate for the higher centre of gravity) opening the hips combining towards relaxation, reduced stress, and improved stamina

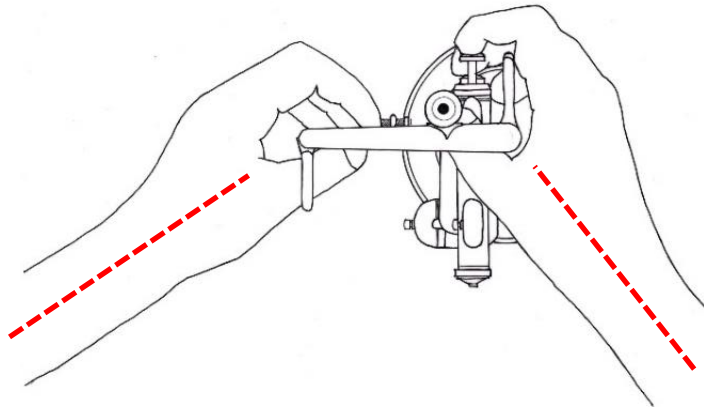


**T7**

The instinctive posture of the T7 player has all the postural benefits of the rotary player, plus enhanced hand and arm benefits.

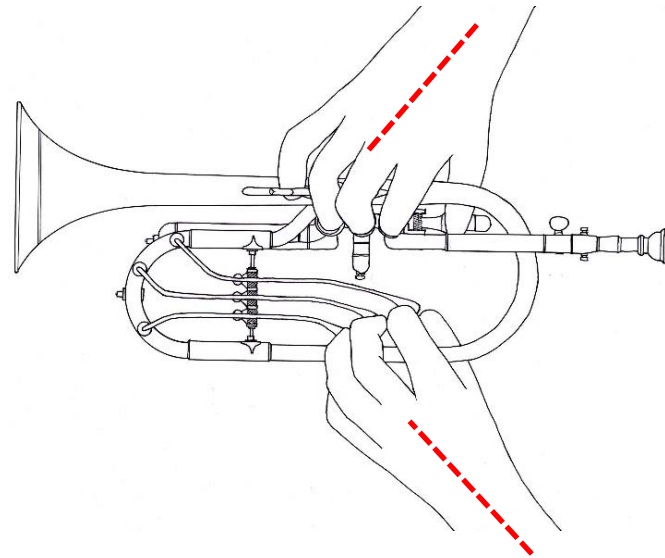
## T7 FOREARM AND HAND ERGONOMICS

The T7 is designed ergonomically to fit into a player's hands, whereas a traditional piston trumpet requires the hand to be uncomfortably connected.



The T7 is held laterally, supported and balanced between two thumbs and a little finger, floating on hands supported on straight wrists,

This reduces stress, strain aggravation of repetitive and common conditions such as arthritis and Dupuytren's contracture.



For the first time, the Vienna keys can be operated independently by the non-valve left hand. Traditional rotary trumpets require the right hand to operate all valves and Vienna keys.

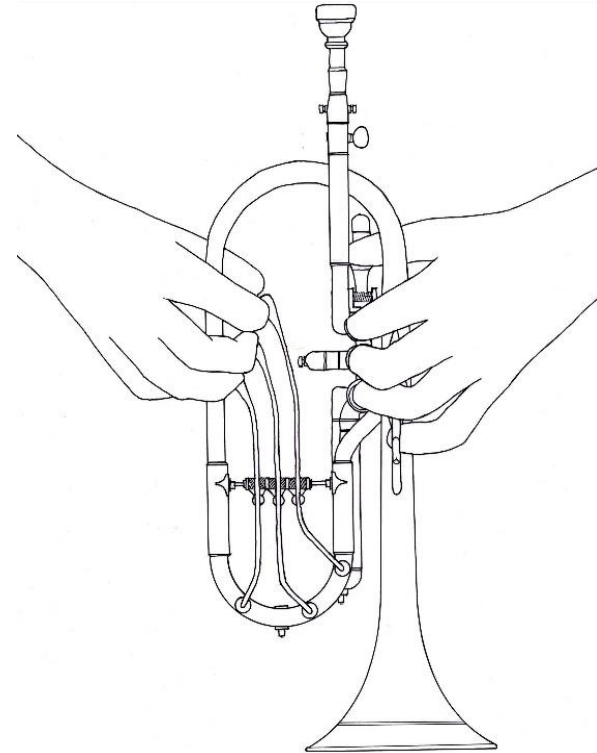
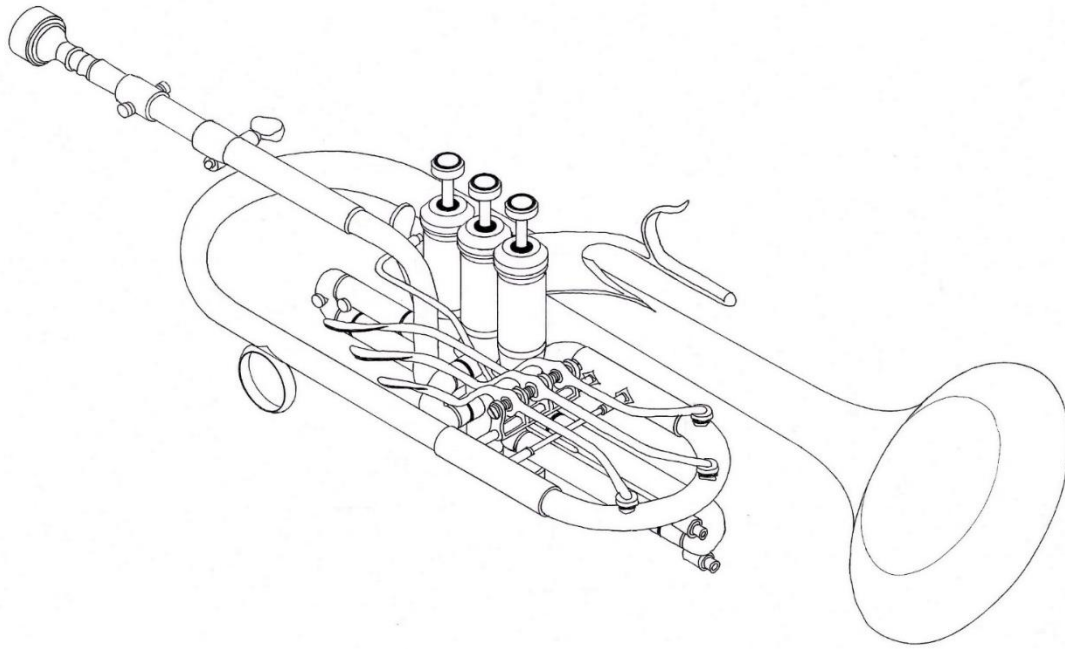


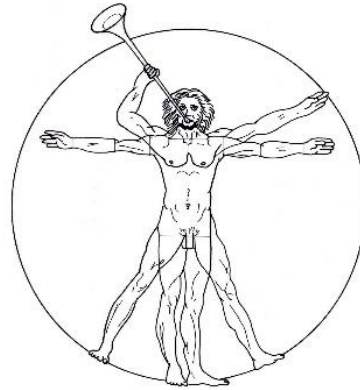
## T7 TARGET SPECIFICATIONS

<i>key</i>	C 440
<i>inner volume</i>	505cc
<i>mean bore</i>	22.121mm
<i>length without mouthpiece</i>	465mm
<i>weight without mouthpiece</i>	1,085g
<i>balance point</i>	2.1 - 2.5 valve
<i>bell</i>	gold brass one-piece linear seam rim diameter 134mm copper rich gold brass nickel silver garland 3 nickel silver braces rotary conicity
<i>leadpipes</i>	removeable interchangeable based on Kuhn C355 and C
<i>adjustments</i>	combined 1 <sup>st</sup> / 3 <sup>rd</sup> trigger first slide decoupled by Miniball joint pressure release aperture in third valve casing
<i>valves</i>	11.00mm, based on a Bach Strad valve block reversed valve travel 10,34mm frictive area 4,084mm <sup>2</sup> inter-valve 7.41mm
<i>tuning slide</i>	standard with three Vienna keys options with fourth G key, with Bb key only, with no keys
<i>customisations</i>	copper content of bell layout of Vienna keys position and size of left thumb ring position of right finger ring push-rod or lever activated triggers leadpipes to fit Breslmair shanks ruby chip insets to valve caps

## T7 ACCESSIBILITY: THE LOST 9%

The T7 is designed to work equally well when made for left-handed players. Although 13% people are left-handed, only 4% of trumpeters are left-handed, suggesting that early talent is deterred by the absence of left-handed instruments.





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