



Schilke



Mouthpieces  
for Brass

*The Mark Of Excellence*



## *Selecting a Brass Mouthpiece*

"In selecting a brass mouthpiece one should strive for optimum tone quality and accurate intonation."

"All teachers and players of brass instruments, both professional and amateur will benefit much by understanding the various parts or surfaces of a brass mouthpiece and what functions each has... only then can one make intelligent and practical recommendations as to which mouthpiece will produce the desired results with a particular player."

"Often the best possible mouthpiece is an intelligent compromise. Every teacher and player should strive for the optimum combination of the major variables. When a player wishes a better mouthpiece, I usually ask him several questions. What mouthpiece are you using now? What difficulty, if any, do you have with that mouthpiece? In what direction do you want to go? A change of tone color? Increased range? Better intonation? Increased endurance? The answers to these questions determine what new mouthpieces should be used."

— Renold O. Schilke



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The complete essay "How to Select a Brass Mouthpiece" by Renold O. Schilke from the original Schilke Mouthpieces for Brass catalog is available for download as a .PDF file at [www.SchilkeMusic.com](http://www.SchilkeMusic.com).





## *Selecting a Brass Mouthpiece...*

Renold O. Schilke had a profound influence on the development of brass mouthpiece design and pedagogy in the 20th century. His wisdom and insight have influenced several generations of performer, educator and student while setting the standard for other manufacturers. Today, Schilke Music Products continues to offer the highest level of expertise in assisting musicians when determining what mouthpiece might work best for their playing needs.

It is important to remember that a "quality sound" is a musician's greatest asset. The instrument acts as an amplifier for the vibration produced within the mouthpiece. The mouthpiece is critical in determining the character of the sound, response, and intonation along with consistency of sound quality in all registers and dynamic levels. A mouthpiece is created of several components or variables that greatly influence a player's sound. These variables include rim contour or rim shape, inner rim diameter or cup diameter, cup shape or cup volume, the throat, the backbore and shank or stem. All of these components play a major role in the final sound production on a brass instrument. General knowledge of these concepts and how they work can only assist the player in selecting equipment that improves their sound.

In addition to several new mouthpiece models from the Schilke custom mouthpiece division, Schilke Music Products continues to offer a unique mix of classic designs that were a result of custom consultation with many notable professional musicians and colleagues of Renold O. Schilke. A labeling system was later developed to reference each mouthpiece while describing the general resistance variables of each model. The Schilke mouthpiece model nomenclature offers information on the following primary mouthpiece characteristics:

*CUP DIAMETER*

*CUP VOLUME*

*RIM CONTOUR*

*BACKBORE*

*Understanding these variables will help a player make an educated, musical choice in selecting a new mouthpiece.*

## *The Schilke Mouthpiece Labeling System*

When a standard model Schilke mouthpiece has a standard backbore, rim and cup, only the cup diameter (first number) is shown on the mouthpiece to designate the model number. For example, in the case of the model **#14** trumpet mouthpiece, it is only necessary to identify the mouthpiece with the first number because it has a standard 'C' cup, standard '3' rim and standard 'c' backbore. It could be cataloged as a **14C3c** but the nomenclature was dropped, since the remaining variables are standard. The model **14A4a** has a shallower 'A' cup, flatter '4' rim shape, and a tighter 'a' backbore than the #14 model.

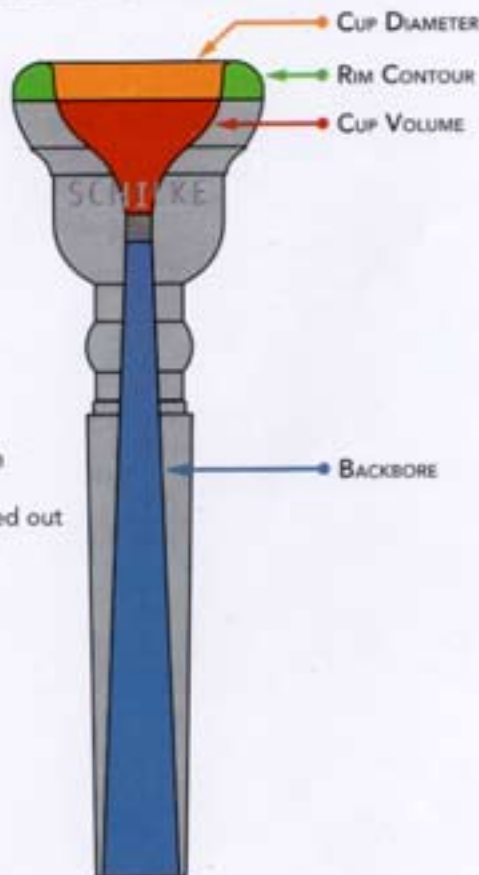
**Regarding the Schilke mouthpiece numbering system,  
using the model 14A4a as an example:**

**14** refers to "Cup Diameter"—smallest numbers have the smallest diameters. Diameter size increases as number increases.

- A** refers to "Cup Volume"
- A. Small – shallow
  - B. Medium small
  - C. Standard (medium size)
  - D. Medium Large
  - E. Large

- 4** refers to "Rim Contour"
- 1. Roundest
  - 2. Semi-Round
  - 3. Standard
  - 4. Semi-flat
  - 5. Flattest

- a** refers to "Backbore"
- a. Tight
  - b. Straight – slightly more open
  - c. Standard
  - d. Medium Large- slightly curved out
  - e. Large



#### **CUP DIAMETER** (First number in label – 14A4a)

The first number (i.e. "14") refers to the cup diameter; smaller numbers have smaller diameters. Cup diameters increase as the model number increases.

*Most trumpet and cornet mouthpieces have a cup diameter that falls between .600 inch and .725 inch. Nos. 5 to 24 in the Schilke system represents sections of .005 inches each between these two measurements. This is also referred to as inner diameter (id).*

Cup diameter or inner rim diameter is the most common way players compare one mouthpiece to another. It is individual choice determined by a player's embouchure, experience, strength, instrument, personal playing style or musical prerequisites. Generally, a small diameter may improve the upper register and endurance but resonance and volume may be affected. A narrow diameter may produce a strained sound without focus and control if a player needs more room. A larger diameter allows the player to "vibrate" a larger surface area of the lip into the bowl of the mouthpiece thus providing more sound volume and resonance depth. However, this may affect endurance and require more strength to maintain a balanced sound in all registers.

#### **CUP VOLUME** (First letter in label – 14A4a)

The first letter or second character (i.e. "A") refers to the cup volume, which is classified as a shallow volume cup shape. It is dropped from the model name if it is the standard 'C' cup shape and all remaining variables are standard.

- A = Small cup – most shallow
- B = Medium small
- C = Standard (medium size)
- D = Medium large
- E = Large

Cup volume helps determine tone quality, tone color, and intonation. In general, deep cup mouthpieces produce the darkest sounds with more core and less highs in the sound. In reverse, shallow cup mouthpieces produce the brightest sounds with more high overtones present in the sound. This aids in the production of the high register. The standard Schilke "C" cup is a compromise, which offers both full tone and ease of sound production. Resistance is also affected by volume. A shallow cup offers more resistance for the player. Conversely, a deeper cup offers less resistance or more freedom.

### **RIM CONTOUR** (Second number in label – 14A4a)

The second number or third character (i.e. "4") refers to the rim contour of the mouthpiece, which classifies it as a semi-flat rim contour.

- 1 = Roundest
- 2 = Semi-round
- 3 = Standard
- 4 = Semi-flat
- 5 = Only slightly rounded

The rim is the connection between the player's body and the instrument. This is critical because it is what you "feel" as the player and it is what creates the seal. The "thickness" of the rim or "bite" of the inner diameter can greatly affect response and articulation clarity. Generally, a rounder rim will allow greater flexibility but sometimes tires the player sooner. The location of the high point of the rim contour may change the way a player perceives the cup width. A flat rim often feels the most comfortable but tends to hold the lips in a fixed position, thereby reducing flexibility.

The #3 standard Schilke rim has the feel that most players prefer in a rim. It has flat enough contour to distribute the slight pressure needed to provide an air seal but is rounded slightly to offer increased flexibility. The flatter #4 rim provides cushion and comfort in the upper register.

### **BACKBORE** (Second letter in label – 14A4a)

The second (last) letter or fourth character (i.e. "a") refers to the backbore, which classifies it as a tight tapered backbore.

- a = Tight
- b = Straight
- c = Standard
- d = Slightly curved out
- e = Large
- x = Piccolo backbore

The backbore describes the taper or rate of change internally inside the mouthpiece stem following the throat as it opens into the mouthpipe. As an extension of the instrument's mouthpipe, the backbore shape plays a significant role in sound color, tone quality, intonation and resistance. A tighter tapered backbore offers more brilliance and control while providing more resistance. This generally will assist a player in the upper register. If the backbore is too small, the resulting sound is "stuffy" and lacking resonance. A large backbore offers a darker, thicker sound with more depth and volume but with less resistance. If there is not sufficient backbore resistance, the resulting sound is harder to control and intonation is less stable with the upper register being slightly sharper.

Schilke mouthpieces all come with standard backbores ("c"), which permit the maximum in tone and range. Other backbores are available (letters a, b, d, e) which may suit a particular need depending on the type of sound required.



*Standard  
Brass Mouthpieces*





## Trumpet and Cornet

As is generally known, the diameter of the shank of a cornet is smaller than that of a trumpet. Most Schilke models are available for both the trumpet and cornet. In general, a slightly larger cup and throat favors the cornet tone.

When ordering Schilke mouthpieces please indicate model nomenclature and whether a trumpet or cornet mouthpiece is desired. If this information is omitted, a trumpet mouthpiece will automatically be supplied.



### Trumpet and Cornet Mouthpiece Descriptions

| Model | mm    | inches | Description  |
|-------|-------|--------|--|
| 5A4   | 15.84 | .624   | <b>New</b> – Small cup diameter with shallow "A" cup and semi-flat rim offers comfort and resistance in the upper register.          |
| 6A4a  | 15.99 | .630   | A shallow "A" cup with cushion #4 rim for extremely high register work.  |
| 7B4   | 16.08 | .633   | Excellent for the player with thin lips. A #4 rim provides good endurance with a brilliant tone.                                     |
| 8A4   | 16.25 | .640   | The slightly funnel-shaped cup at the entrance to the throat provides a good tone and the #4 semi-flat rim gives superior endurance. |
| 8E2   | 16.15 | .636   | The deep funnel-shaped cup provides a smooth tone, very flexible in all registers. Recommended for cornet players.                   |
| 9     | 16.33 | .643   | Standard characteristics allow for a full penetrating tone quality.  |
| 9C4   | 16.36 | .644   | Like the #9, however the #4 semi-flat rim provides excellent endurance.  |
| 10A4a | 16.43 | .647   | The combination of the shallow "A" cup, semi-flat #4 rim and tight "a" backbore assists with upper register work.                    |
| 10A4  | 16.43 | .647   | Same as the 10A4a but with a standard "c" backbore, which offers less resistance.  |
| 10B4  | 16.43 | .647   | A medium-small funnel-shaped "B" cup produces a quality sound and added support in the upper register.                               |
| 11A   | 16.51 | .647   | This rim size and contour is similar to the #11 but with a shallow "A" cup.  |

## Trumpet and Cornet

| Model | mm    | inches | Description   |
|-------|-------|--------|---|
| 11Ax  | 16.51 | .650   | This model was developed for the Schilke piccolo trumpets. The "x" backbore both improves the ease of playing and opens up the sound on the piccolo. Also available in trumpet shank.     |
| 11C2  | 16.51 | .650   | Similar to the #11 featuring a slightly rounded #2 rim contour.   |
| 11    | 16.53 | .653   | A superior mouthpiece with standard characteristics for a free blowing mouthpiece.  |
| 11D4  | 16.58 | .653   | Slightly deeper than the #11 with a #4 semi-flat rim, which provides a definite cushion feel for endurance.   |
| 11E   | 16.58 | .653   | The large funnel-shaped cup encourages a big round tone, ideal for cornet.  |
| 12A4a | 16.71 | .658   | Similar to the 12B4 but with a shallow "A" cup, tight "a" backbore, which adds both endurance and range.  |
| 12A4  | 16.71 | .658   | This mouthpiece is the same as a 12A4a but with a standard "c" backbore.  |
| 12B4  | 16.71 | .658   | This medium-small conical "B" cup provides a full tone and the #4 semi-flat rim allows for more endurance.  |
| 12    | 16.69 | .657   | A traditional medium size mouthpiece that includes a #3 standard rim and "c" backbore allows the player a full spectrum of sound.   |
| 13A4a | 16.76 | .660   | The shallow "A" cup, semi-flat #4 rim and tight "a" backbore creates an ideal lead mouthpiece.  |
| 13A4  | 16.76 | .660   | Same as the 13A4a but with the standard "c" backbore which allows a freer blowing feel.   |
| 13B   | 16.77 | .660   | This mouthpiece has a "B" cup that is slightly deeper than the 13A4 and also offers a narrower, round rim.  |
| 13    | 16.89 | .665   | <b>New</b> – Ideal choice for a student or developing player with standard #3 rim contour. Rounder rim provides increased flexibility and quick response. "C" cup offers volume for tone. |
| 13C4  | 16.89 | .665   | A somewhat sharp inner-edge combined with a funnel-shaped "C" cup offers a clear tone. The #4 semi-flat rim adds increased endurance.   |



| Model | mm    | inches | Description   |
|-------|-------|--------|---|
| 13D4  | 16.89 | .665   | <b>New</b> – Best option for a player looking for a thick, rich, weighted sound. Medium large "D" cup offers a tone that is colorful with depth. #4 semi-flat rim affords comfort with sharper bite for superior articulation clarity. Diameter ideal for all players from student to professional. |
| 14A4a | 17.09 | .673   | One of our most popular mouthpieces, the 14A4a offers a shallow "A" cup, semi-flat #4 rim and tight "a" backbore allows a player a strong upper register without sacrificing tonal production.  |
| 14A4  | 17.09 | .673   | Same as the 14A4a but with a standard "c" backbore which offers a more "open" feel.   |
| 14A4x | 17.09 | .673   | Based on the popular 14A4a, this mouthpiece creates a very open blowing feel with the large "x" backbore. This backbore improves the ease of playing and opens up the sound of our piccolo trumpet. Also ideal for Eb soprano cornet.   |
| 14B   | 17.02 | .670   | Similar to the #14 but with a "B" (medium-small) cup size.  |
| 14C2  | 17.02 | .670   | This "C" cup and #2 semi-rounded rim produces a rather large tone and good center.  |
| 14    | 17.02 | .670   | With a standard rim, cup and backbore, the 14 is an excellent choice for all-around playing.  |
| 15A4a | 17.14 | .675   | A larger diameter mouthpiece with a shallow "A" cup and tight "a" backbore for upper register playing. #4 semi-flat rim offers comfort in upper register.   |
| 15A4  | 17.14 | .675   | Same as the 15A4a but with a larger "c" backbore for an open feel.  |
| 15B   | 17.12 | .674   | With the same diameter as the #15, this mouthpiece includes "B" style cup which produces a more brilliant sound than the standard #15 mouthpiece.   |
| 15    | 17.12 | .674   | An excellent all-around mouthpiece which offers a free blowing, clear sound.  |
| 15C4  | 17.14 | .675   | This mouthpiece is similar to the #15 but with the #4 semi-flat rim for increased endurance.  |
| 16B4  | 17.20 | .677   | <b>New</b> – Same as the #16C4 except the shallower medium-small "B" cup offers more resistance, providing a brighter quality of sound. The 16B4 is excellent choice for Eb trumpet when a player requires a bigger rim diameter.   |
| 16C4  | 17.20 | .677   | Similar to the 16 in dimensions, this mouthpiece offers our #4 semi-flat rim for a more traditional feel and increased endurance.   |



## Trumpet and Cornet

| Model | mm    | inches | Description   |
|-------|-------|--------|---|
| 16    | 17.20 | .677   | With all the standard Schilke characteristics, this medium-large diameter mouthpiece produces a full, free blowing quality.   |
| 16C2  | 17.20 | .677   | This model offers the same options as the 16, but instead offers a #2 rim for increased flexibility.  |
| 17B4  | 17.33 | .682   | <b>New</b> – Well suited for the player looking for a shallower cup in a larger diameter. Medium-small "B" cup offers more brilliance for projection with #4 semi-flat rim for comfort.   |
| 17    | 17.33 | .682   | A compromise of all the medium characteristics, this mouthpiece is an excellent medium to large diameter mouthpiece.  |
| 17D4  | 17.33 | .682   | This mouthpiece includes a deeper "D" cup and #4 semi-flat rim for improved endurance.  |
| 17D4d | 17.33 | .682   | A larger blowing mouthpiece than the 17D4 because of the increase "d" backbore.   |
| 18B4  | 17.52 | .690   | <b>New</b> – Ideal for a classical player looking for a commercial sound, the medium shallow cup and semi-flat rim provide resistance and comfort for upper register playing. Cup shape offers some sparkle in the sound with enough volume for tone. |
| 18    | 17.52 | .690   | The high point being nearer to the center makes this mouthpiece feel smaller than it is. The standard characteristics produces a rich, brilliant tone.  |
| 18C3d | 17.52 | .690   | Similar in dimension to the 18 but with a larger "d" backbore producing a large, testonic tone.   |
| 19    | 17.65 | .695   | The "C" cup, #3 rim and standard "c" backbore is similar to the #20 but with a slightly smaller diameter.   |
| 20    | 17.78 | .700   | This large diameter is for the robust embouchure. Original mouthpiece of choice for Renold O. Schilke.  |
| 20D2d | 17.73 | .698   | Similar to the #20 in diameter but includes a larger "D" style cup, #2 semi-round rim and larger "d" backbore.  |
| 22    | 18.03 | .710   | Similar to the #20 but with a larger inside diameter.   |
| 24    | 18.29 | .720   | Our largest cup diameter for the well trained trumpeter. This mouthpiece provides a huge volume of sound.   |

## *Heavyweight Trumpet Mouthpieces*

A "Heavyweight" profile trumpet mouthpiece option is available in the following best selling rim sizes only. The additional mass provides a darker focused sound, with more secure slotting and increased projection at louder dynamic levels.



**Heavyweight Trumpet Mouthpiece Descriptions**

| Model | mm    | inches | Description  |
|-------|-------|--------|--|
| 6A4a  | 15.99 | .630   | Small diameter mouthpiece with shallow "A" cup and cushion #4 rim.                               |
| 13A4a | 16.76 | .660   | The shallow "A" cup, semi-flat #4 rim and tight "a" backbore creates an ideal lead mouthpiece.   |
| 13    | 16.89 | .665   | Rounder rim provides increased flexibility and quick response. "C" cup offers volume for tone.   |
| 14A4a | 17.09 | .673   | A shallow "A" cup, semi-flat #4 rim and tight "a" backbore for lead work.                        |
| 14    | 17.02 | .670   | With a standard rim, cup and backbore, the 14 is an excellent choice for all around playing.     |
| 15A4a | 17.14 | .675   | A larger diameter mouthpiece with our "A" cup and tight "a" backbore for upper register playing. |
| 15    | 17.12 | .674   | An excellent all-around mouthpiece with standard C cup and #3 rim.                               |
| 16C4  | 17.20 | .677   | A standard cup and #4 semi-flat rim for a more traditional feel.                                 |
| 17    | 17.33 | .682   | A standard cup and #3 rim, this model is well suited for both classical and jazz styles.         |
| 18    | 17.52 | .690   | A larger diameter mouthpiece with our standard "C" cup and #3 rim. Ideal for symphonic work.     |
| 20    | 17.78 | .700   | This large diameter is for the robust embouchure and offers a huge volume of sound.              |



## *French Horn Mouthpieces*

**French Horn Mouthpiece Descriptions**

| <b>Model</b> | <b>mm</b> | <b>Inches</b> | <b>Description</b>  |
|--------------|-----------|---------------|---|
| <b>27</b>    | 16.25     | .640          | A narrow diameter and thin rim creates a special mouthpiece for the first horn player.  |
| <b>28</b>    | 16.15     | .636          | A true "French" model mouthpiece having a small cup and throat that definitely favors the high register. Recommended for the Descant Horn.  |
| <b>29</b>    | 17.53     | .690          | A large rim diameter with a standard rim contour, cup, and smaller bore offer a balanced option that is very adaptable to both the younger player and the professional needing a stronger upper register. |
| <b>30B</b>   | 16.92     | .666          | This model was designed with a smaller "B" style cup and thin, flat rim.  |
| <b>30</b>    | 17.03     | .670          | The original Farkas Model, the wide rounded rim and fairly deep cup makes the 30 a good all-around mouthpiece for the experienced player.   |
| <b>31</b>    | 17.14     | .675          | This model has a V shaped cup, thicker standard rim and a slightly larger diameter to aid in producing a greater volume of sound.   |
| <b>31B</b>   | 17.40     | .687          | A wide rim with a higher center point and a medium depth bowl shaped cup produces a rich, dark tone.  |
| <b>31C2</b>  | 17.43     | .688          | The 31C2 has a wide rim with a higher center point and a bowl shaped cup of medium depth producing a rich, dark tone.   |
| <b>32</b>    | 17.83     | .702          | The extra large cup diameter, cup volume, and backbore produces a rich, dark tone color.  |



# *Tenor Trombone, Euphonium and Bass*



**S** = Small shank for Tenor Trombone, Baritone or Euphonium

**L** = Large shank for Large Bore Tenor Trombone, Baritone or Euphonium

**E** = European shank for Euphonium

**B** = Bass Trombone

## Tenor Trombone, Euphonium and Bass Mouthpieces

| Model | mm    | inches | Description  | Shank |
|-------|-------|--------|--|-------|
| 40B   | 22.51 | .886   | Extremely small inner rim diameter and shallow "B" cup. This mouthpiece, with its wide-rounded rim, works well for the trumpet player who doubles on trombone.               | S     |
| 40    | 22.53 | .887   | Since the cup diameter is small, the upper register is improved. In addition, the tone has considerable projection. It is excellent for the bass trumpet and valve trombone. | S     |
| 42B   | 22.99 | .905   | <b>Contour profile</b> – this mouthpiece is well suited for the small tenor trombone and lead/commercial playing.  | S     |
| 42    | 23.22 | .914   | Slightly larger diameter and deeper than the 42B, the 42 features a standard "C" cup.  | S     |
| 43A   | 23.57 | .927   | <b>Contour profile</b> – this mouthpiece was designed for the lead trombone player desiring an easy high register.   | S     |
| 44E4  | 24.28 | .956   | Though a small cup diameter, this mouthpiece offers a very deep "E" cup and semi-flat #4 rim.  | S L   |
| 45B   | 24.30 | .956   | <b>Contour profile</b> – designed for the lead trombone player with a larger cup volume than the 43A.  | S     |
| 45    | 24.38 | .960   | The semi-flat rim has a high point close to the center of the mouthpiece, which allows for a great deal of flexibility. Ideally suited for the beginning trombone player.    | S     |
| 46    | 24.54 | .966   | Slightly larger than the 45, this is also a good beginner's mouthpiece.  | S L   |
| 46D   | 24.76 | .975   | The cup diameter and volume is slightly larger than the 46, producing a full, resonant tone. Also recommended for the younger baritone/euphonium player.                     | S L   |

\* Contour profile pictured in silver above

## *Tenor Trombone and Euphonium*

| Model | mm    | Inches | Description   | Shank |
|-------|-------|--------|---|-------|
| 47B   | 24.87 | .979   | <b>Contour profile</b> – This mouthpiece is a good all-around mouthpiece for the jazz player that is requiring quick response and a resonant high register.   | S     |
| 47    | 24.99 | .984   | For both professionals and students alike, this outstanding mouthpiece combines good response with superior tone quality and intonation.  | S L   |
| 47C4  | 25.10 | .988   | Like #47 but with a slightly wider, semi-flat #4 rim.   | S L   |
| 50    | 25.40 | 1.00   | Particularly adapted to the medium and large-bore tenor trombones. The Schilke standard options make this a fine all around mouthpiece.   | S L   |
| 51B   | 25.63 | 1.010  | This mouthpiece incorporates a large diameter with a medium-small "B" cup and small throat.   | S L   |
| 51    | 25.63 | 1.010  | A large bowl shaped cup producing a rich tone quality. Ideally suited for large bore tenor and orchestral performers.   | S L E |
| 51C4  | 25.63 | 1.010  | Similar to the #51 with a slightly shallower cup, smaller throat and semi-flat #4 rim.  | S L   |
| 51D   | 25.55 | 1.005  | One of our most popular, this mouthpiece offers a very large "D" cup and is excellent for the strong player. It is particularly suited for the Euphonium, producing a full dark tone.                               | S L E |
| 52    | 25.78 | 1.015  | Slightly larger diameter than the 51, this mouthpiece produces a slightly broader sound.  | S L   |
| 52D   | 25.78 | 1.015  | Like the 51D, the large "D" cup makes this mouthpiece ideal for symphonic trombone playing. Also a good choice for the Euphonium player requiring a larger diameter than the 51D.                                   | S L E |
| 52E2  | 25.91 | 1.020  | With its extremely deep "E" cup and narrower, rounder #2 rim makes this mouthpiece an ideal symphonic choice for the robust player. Also a good choice for Euphonium player requiring more cup volume than the 52D. | S L   |
| 53    | 26.24 | 1.033  | This combination of large cup diameter and bowl shape is widely favored by those who desire a rich full sound.  | S L   |



## *Bass Trombone*

| Model | mm    | inches | Description   | Shank |
|-------|-------|--------|---|-------|
| 57    | 26.52 | 1.044  | This model is an excellent choice for those who play tenor and bass trombone.   | B     |
| 58    | 27.68 | 1.090  | A highly recommended mouthpiece for those who double on tenor and bass, and the full-time bass trombonist, combining both good intonation with great lower and upper registers. | B     |
| 59    | 28.52 | 1.123  | An outstanding mouthpiece for the full-time bass trombonist, combining great intonation with excellent lower and upper registers.   | B     |
| 60    | 29.03 | 1.143  | Our largest bass mouthpiece offering a full body of sound for the experienced player.   | B     |

## *Tuba Mouthpieces*

### Tuba Mouthpiece Descriptions

| Model | mm    | inches | Description   |
|-------|-------|--------|---|
| 62    | 31.85 | 1.254  | A superior standard mouthpiece with a good centered sound and easy response in the high and low register with good intonation. Also recommended for Eb or F tuba. |
| 66    | 31.52 | 1.241  | Designed from the original Helleberg, this mouthpiece offers a smaller inside cup diameter but still produces a rich tone quality with a wealth of volume.        |
| SH    | 31.84 | 1.253  | This Schilke "Helleberg" model offers a rim contour that is different from our #66. This mouthpiece produces a sound that is clear and dark.                      |
| 67    | 32.41 | 1.276  | Similar to the Schilke "SH" Helleberg model, but slightly larger. The contour is also similar to the #66 but offers improved tonal response.                      |
| 69C4  | 32.76 | 1.290  | With a very comfortable rim and cup that is not too deep, the 69C4 offers an excellent characteristic sound and facilitates all registers of the instrument.      |





# *Custom Series*

## *Brass Mouthpieces*



Schilke Custom Mouthpieces are produced by our custom mouthpiece division and are built one at a time. Designed by professional players along with the staff at Schilke, these models will offer different cup, rim, and shanks sizes not available in the standard Schilke mouthpiece line.

## Symphony Series

Utilizing concepts from the standard Schilke mouthpiece line, the 'Symphony Series' models for trumpet, cornet, and trombone are large diameter mouthpieces offering a deep, vibrant sound with a well-focused center. They were developed to meet the demands of the modern orchestral player and have comfortable rim shapes that provide a nice clarity in attack.

### *Symphony Series* *Trumpet Mouthpieces*

#### Symphony Series Trumpet Mouthpiece Descriptions



#### Symphony Series #1 Rim Comparison=Schilke 19/20 or 1C

|            |   |
|------------|---|
| <b>M1</b>  | Standard bowl shape "C" cup with a 24 throat and Schmitt backbone. Excellent all around mouthpiece for both C and Bb trumpet.   |
| <b>M1D</b> | Standard bowl cup with 24 throat and TIGHTER Schmitt backbone. Very good option for either Bb or Eb trumpet playing.  |
| <b>M1*</b> | The "*" models share same rim and cup as the 'M' and "MD" models. They have a LARGER Schmitt backbone with a shorter throat that creates less resistance and a more open feel.  |
| <b>D1</b>  | Deeper bowl shape cup that still provides feedback for control. The 'D' cups have a smaller version of the Schmitt backbone, tighter to balance the deeper cup.   |
| <b>F1</b>  | The 'F' models offer a deep "V" shape cup that provides darker, warmer, more conical color allowing one to project at full capacity but maintain a soft mellow sound. These models utilize a shorter shank to compensate for cup volume plus a larger throat size & backbone taper. |

#### Symphony Series #150 Rim Comparison=Schilke 18 or 1.25C

|              |   |
|--------------|---|
| <b>M150</b>  | Slightly smaller '150' Rim diameter, standard bowl shape "C" cup, 24 throat and Schmitt backbone.         |
| <b>M150D</b> | Slightly smaller '150' Rim diameter, standard bowl shape "C" cup, 24 throat and TIGHTER Schmitt backbone. |
| <b>M150*</b> | LARGER Schmitt backbone with a shorter throat in a '150' rim diameter. More open feel.                    |
| <b>D150</b>  | Deeper bowl shape cup in '150' rim diameter.  |
| <b>F150</b>  | 'F' cup model with shorter shank in '150' diameter. Offers a dark, mellow sound.                          |

## *Symphony Series Trumpet*

### **Symphony Series #2 Rim Comparison=Schilke 16C4/17 or 1.5C**

|            |  |
|------------|--|
| <b>M2</b>  | Slightly smaller '2' Rim diameter, standard bowl shape "C" cup, 24 throat and Schmitt backbore.                |
| <b>M2D</b> | Slightly smaller '2' Rim diameter, standard bowl shape "C" cup, 24 throat and TIGHTER Schmitt backbore.        |
| <b>M2*</b> | LARGER Schmitt backbore with a shorter throat in a '2' rim diameter. More open feel.                           |
| <b>M2X</b> | This model has the rim, throat, and backbore of a M2 but the cup shape of the M1 for slightly more cup volume. |
| <b>D2</b>  | Deeper bowl shape cup in '2' rim diameter.   |
| <b>F2</b>  | 'F' cup model with shorter shank in '2' diameter. Offers a dark, mellow sound.                                 |

### **Symphony Series #3 Rim Comparison=Schilke 15/14 or 3C**

|            |   |
|------------|---|
| <b>M3</b>  | Slightly smaller '3' Rim diameter, standard bowl shape "C" cup, 24 throat and Schmitt backbore.         |
| <b>M3D</b> | Slightly smaller '3' Rim diameter, standard bowl shape "C" cup, 24 throat and TIGHTER Schmitt backbore. |
| <b>M3*</b> | LARGER Schmitt backbore with a shorter throat in a '3' rim diameter. More open feel.                    |
| <b>D3</b>  | Deeper bowl shape cup in '3' rim diameter.  |
| <b>F3</b>  | 'F' cup model with shorter shank in '3' diameter. Offers a dark, mellow sound.                          |

## *Symphony Series Cornet* **Mouthpieces**

A deep traditional "V" shaped cup along with a larger rim diameter, intended for the player looking for the customary warm, rich cornet sound in the British band style while providing the required resistance and focus when playing fortissimo in the upper register.

### **Symphony Series Cornet Mouthpieces**

| <b>Model</b> | <b>Description</b>                     |
|--------------|--|
| <b>V1</b>    | Rim Comparison=Schilke 19/20 or 1C     |
| <b>V150</b>  | Rim Comparison=Schilke 18 or 1.25C     |
| <b>V2</b>    | Rim Comparison=Schilke 16C4/17 or 1.5C |
| <b>V3</b>    | Rim Comparison=Schilke 15/14 or 3C     |





# *Symphony Series Trombone Mouthpieces*



## **Symphony Series Trombone Mouthpiece Descriptions**

### **Symphony Series 5.1 Rim Comparison = Schilke 51/ 5G**

|              |   |
|--------------|---|
| <b>M5.1</b>  | A medium shallow cup that provides more brilliance, and projection due to additional high overtones in the sound core.  |
| <b>D5.1</b>  | A standard cup shape that provides a deeper bottom to the sound core and excellent articulation clarity. Resistance variables are ideal for a principal player.             |
| <b>D5.1*</b> | For a more open feel with additional depth to the sound and greater flexibility, the standard cup with tapered throat provides slightly less resistance than the "D" model. |

### **Symphony Series 5.2 Rim Comparison = Schilke 52/ 4G**

|              |  |
|--------------|--|
| <b>M5.2</b>  | A medium shallow cup that provides more brilliance with a larger rim diameter than the 5.1 models. |
| <b>D5.2</b>  | A standard cup shape that provides a deeper bottom to the sound core.                              |
| <b>D5.2*</b> | Standard cup with tapered throat. More open than D5.2  |

### **Symphony Series 5.3 Rim Comparison = Schilke 53/ 3G**

|              |  |
|--------------|--|
| <b>M5.3</b>  | A medium shallow cup that provides more brilliance with a larger rim diameter than the 5.2 models. |
| <b>D5.3</b>  | A standard cup shape that provides a deeper bottom to the sound core.                              |
| <b>D5.3*</b> | Standard cup with tapered throat. More open than D5.3  |

### **Symphony Series 6.0 Rim Comparison=Schilke 60/1G**

|             |  |
|-------------|--|
| <b>M6.0</b> | This deep cup is similar to a standard 59 model yet maintains the rim diameter of a 60. It includes a large Schmitt backbore and more open "O" throat. It is an efficient, even playing mouthpiece that provides brilliance for maximum projection when desired.                                   |
| <b>D6.0</b> | Slightly more open feel than a standard Schilke 60 while maintaining the same rim diameter. It includes a large Schmitt backbore and more open "O" throat. Maintaining efficiency, this extra large bowl provides more depth to the sound core with clarity and consistency at all dynamic levels. |

## *Faddis Model*

### **Faddis Model (XL Heavyweight)**

An extra large "Heavyweight" trumpet mouthpiece, this model's design is based on the mouthpiece used by legendary jazz artist, musician, conductor, composer and educator Jon Faddis for his Schilke S42L Faddis Model set-up. JFXL inner rim equivalent = Schilke 11 with an extra shallow cup.



## *Concert Cornet Series*

### **Concert Cornet Series**

Based in design on several of our best selling rim sizes, these mouthpieces offer a deeper traditional British style cup, which is 'V' shaped. Available in 6E4, 13E4, 14E4, 15E, 16E4, 17E, 18E and 20E rim sizes, these models offer a warm, rich, true cornet sound with a balanced resistance while maintaining articulation clarity.



## *Flugelhorn Series*

### **Flugelhorn Series**

The Flugelhorn requires a deeper cup and larger throat than a trumpet or cornet mouthpiece. The Flugelhorn Series feature a deep V-shaped cup, large throat and backbore with an American shank for a soft, dark tone in the following sizes: 6F4, 13F4, 14F4, 15F, 16F4, 17, 18F and 20F.



## *Concert Tuba Series*

### **Concert Tuba Series**

**SH-II** – The "Helleberg SH-II" is made along the same lines as the 66, 67, and standard Helleberg. It has the same Helleberg-style cup shape with the same inside diameter as the 69C4, 32.76 mm, a slightly tighter throat and standard backbore.

**SH-IIF** – The "Helleberg SH-IIF" has the same rim as the Helleberg SH-II but with a shallower bowl-shaped cup to accommodate the smaller F tuba. The throat is smaller than the SH-II. The backbore is slightly larger, similar to a Schmitt shape that opens up quicker under the throat to reduce resistance.

**GEIB** – The Geib model has the same inside diameter as the Helleberg SH-II with a modified rim contour. The Geib cup is more bowl-shaped and slightly shallower than the SH-II. The entrance to the throat is tighter yet it shares the same throat size as the SH-II with a standard backbore.

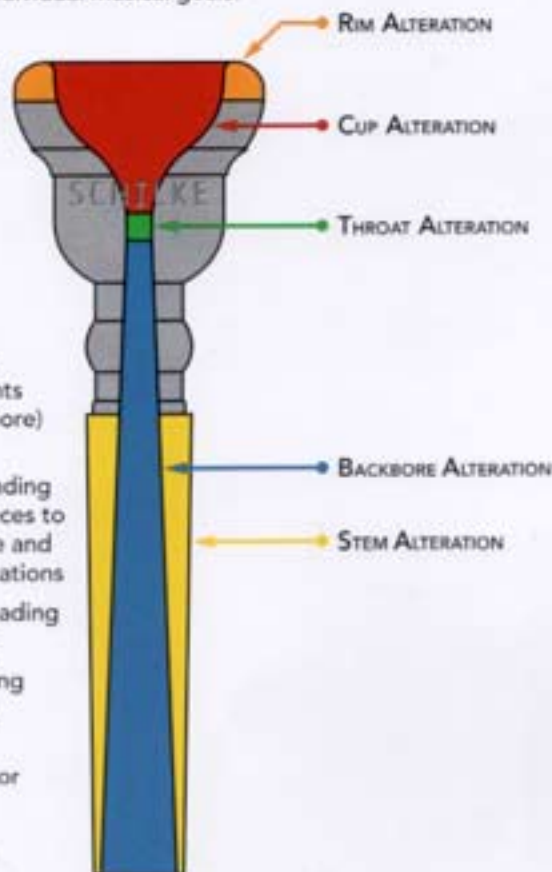


## Custom Mouthpieces Services

The Schilke Custom Mouthpiece Division can make modifications, or alterations to a mouthpiece that may improve response, intonation, articulation clarity or adjust sound color and depth. These adjustments can make the difference for the player in accomplishing their individual musical goals.

We offer the following services:

- **Modification** – Modifying an existing mouthpiece
  - Rim Alteration
  - Cup Alteration
  - Enlarge throat
  - Enlarge Backbore
  - Stem Alteration
- **Duplication** – We can make a digital or manual copy of a mouthpiece or key components (i.e. rim, throat, cup, or backbore) upon request.
- **Custom-Built to Order** – Blending aspects of different mouthpieces to create something new, unique and built to your personal specifications
- **Threading** – Mouthpiece threading in a variety of configurations
- **Plating** – Mouthpiece re-plating services available on request.
- **Consultation** – Personal consultation by phone, email or factory appointment



We welcome visitors to the Schilke factory. Please call in advance to schedule an appointment.

## Guarantee

All SCHILKE products are guaranteed against defects in materials and workmanship. PLATING which is the best that we can obtain, is not included in the guarantee.





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