

Osmun Horn Mouthpieces

Concept

In designing our mouthpieces I had two basic ideas in mind.

One: To create a range of horn mouthpieces that would be well made and allow the player to mix and match different components to find the perfect combination for him or her. I wanted the parts to be consistent and repeatable.

Two: I wanted the mouthpieces identified and described in such a way that players could make intelligent choices when making changes. I spent my youth reading mouthpiece catalogs that used descriptions like: “for small, willowy girls who desire a Teutonic quality of sound”. I didn't want to perpetuate similar descriptions nor did I want players to have to make choices using their fingers or pencils for micrometers.

Sound Families

The idea of “Sound Families” was to group basic mouthpiece designs together so that players would have some idea of what to expect from them. The Chicago, London, New York, and Vienna series suggest the sort of tone colors a player might expect from a particular component. Needless to say, they are only approximations and are not cast in cement.

Cups and rims

Our cups are made in two ranges, inch and metric. The inch cups are available in two widths, .650” and .675”. Both use and industry standard .750-36 thread. The standard (.650) cups are interchangeable with cups from Giardinelli, Moosewood, Stork, Warburton, and many others. Our metric range has only one width, 17.5mm and use an .800-36 thread. They are designed specifically to be interchangeable with Paxman and Halstead-Chidell mouthpieces and are offered in sizes larger than our inch models.

Inch rims are offered in three sizes: standard-.650 ID, +-.650 ID but the rest of the rim is .012” wider (+ rims fit standard cups), and W-.675 ID. Metric rims are all 17.5 ID and measure 17.5, 18, or 18.5mm at the bite.

As long as you stay in the same size, ie standard, +, or W all inch range cups and rims are completely interchangeable as are all metric cups and rims.

Plating

Our cups are silver plated, our rims are gold, We gold plate rims for two reasons: 1, gold feels more slippery on the lips, and advantage to players who use a wet embouchure (the vast majority) and 2, gold is hypo-allergenic, eliminating most allergy problems. We can supply rims in silver plate or in delrin, if desired. Because it is almost impossible to provide a durable plate while conforming to environmental regulations we outsource our plating. Our plated finishes are guaranteed for one year.

Throats

Most of mouthpieces are available in four standard throats. Any throat (to size 20) can be special ordered. We ream our throats, a process that results in a very smooth, accurately dimensioned hole.

Backbores

Horn mouthpiece backbores are governed by two factors, the first nodal point that affects the harmonics of the horn is several inches down the mouthpipe, and, the very small area and shallow taper of the backbore make its effects negligible. The primary issue is how it affects the length of the throat.

Price List

New Mouthpieces

Cup: \$75 Rim: \$75

Complete mouthpiece: \$150

Alternate Outside Shape (Heavy, X-Heavy, New York): \$25

Euro Shank (Alexander taper): \$15

Replica Mouthpieces: \$165

Our mouthpieces are fit to a 0 Morse taper shank. The cups are plated with silver and the rims are gold. Delrin rims are also available.

Our finishes are durable and are guaranteed for one year.

Design and Copy Services

We can make an exact copy of any mouthpiece. The cost is the same as our standard mouthpiece plus the work needed to transfer your design to our computer driven lathe. After the dimensions of your mouthpiece have been added to our database any future copies will be at the standard price.

The copying process involves measuring the gross measurements, length, shank diameter, etc., and then making a mold in metrology rubber which we can digitize to produce an accurate mechanical drawing of your cup and rim. We can also digitize your backbore but we don't consider it necessary in most cases. The costs:

Digitize: We produce a digital image of your cup and rim in the form of a .dxf file that we can use to produce an exact copy: \$ 150

Digitize rim only: \$75

Digitize Backbore: \$50

Digitize without mouthpiece order: \$ 175

Copy outside shape: \$75-150

Modify an existing design. You can use a pencil or a PC drawing program to make changes or combine features from different designs in our database: \$ 50-100

Create a digital image from a drawing or sketch. Start with a blank sheet of paper or a PC drawing program and design your own mouthpiece. This is an interactive process. We'll work with you to make sure it works. Price varies with the complexity of the project.

Mouthpiece Modification Services

Threading-thread cup or rim: \$40 each.

Available threads: 750-36 (Osmun, Giardinelli, Moosewood),
800-36 (Paxman, Halstead-Chidell), 745-40 (Lawson)

We can duplicate any thread. An extra charge may be made for odd sizes.

Please note: One mouthpiece can be threaded to yield either a cup or a rim, not both.

Open throat: \$5

Open backbore: \$25

Modify cup or rim by hand: \$30-75

Refinishing








Silver-Cup or rim: \$45



Gold-Cup or rim: \$65

All finish work is done in house. As our primary goal is to preserve the shape of the rim, cup and shank, you may still see some imperfections in the finished job. Our silver and gold plating is the finest obtainable and is guaranteed for one year.





Osmun Horn Mouthpiece Rims

Inch Rims (.750"-36 Thread. Measurements in inches. OD is for .650 OD cups. + size rims are designed to fit on standard .650 ID cups but are .012" wider)

| Model | Contour | Specs | Description |
|-------|---|--|--|
| CH |  | ID .650, .650+, .675 OD .996, 1.008, 1.021 Width .346 Bite Radius .061 Crown Radius .127 | Our Chicago rim is a copy of an original Farkas model. Its moderate dimensions offer good support and make it an excellent rim for all-around use. |
| L |  | ID .650, .650+, .675 OD .998, 1.010, 1.023 Width .348 Bite Radius .055 Crown Radius .107 | Similar to our Chicago model, with a slightly sharper bite and a flatter crown. The sharper bite adds more precision to the attack. |
| NY |  | ID .650, .650+, .675 OD .934, .946, .959 Width .284 Bite Radius .056 Crown Radius .055 | This is a copy of an original Giardinelli Chambers model. The crown is placed towards the outside of the rim and tends to gather the lip inward. |
| V |  | ID .650, .650+, .675 OD .935, .947, .960 Width .285 Bite Radius .064 Crown Radius .066 | Our Vienna rim is almost circular in its bite and crown radii. It is very flexible in all registers. |
| V1 |  | ID .650, .650+, .675 OD .960, .972, .985 Width .310 Bite Radius .064 Crown Radius .085 | The V1 is identical in dimensions to the V except in that the width has been increased by .025" to provide a little more support. |
| G |  | ID .650, .650+, .675 OD .953, .965, .978 Width .303 Bite Radius .062 Crown Radius .094 | The same rim as on our Geyer replica model. Relatively narrow and flat it combines good support and flexibility. |
| L6 |  | ID .650, .650+, .675 OD .962, .974, .987 Width .312 Bite Radius .060 Crown Radius .119 | The L6 is a copy of a Lawson B23G. The crown is towards the outside of the rim, as in the NY, but it is less extreme in all its dimensions. |

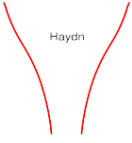
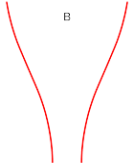


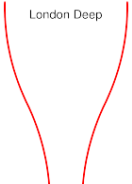

| Model | Contour | Specs | Description |
|-------|---|--|--|
| 7 |  | ID .650, .650+, .675 OD .972, .984, .997 Width .322 Bite Radius .058 Crown Radius .086 | Our model 7W is a copy of a rim used by Chicago 4 th horn Frank Brouk. Its high crown and narrow width make it especially useful for players who concentrate in the low register. |
| JS |  | ID .695 OD .982 Width .287 Bite Radius .048 Crown Radius .103 | The rim used by the legendary Jimmy Stagliano in the Boston Symphony. A narrow rim in an immense inner diameter. Currently made only to fit the JS6 replica cup. |

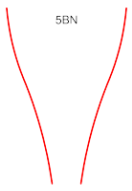
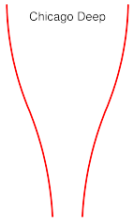
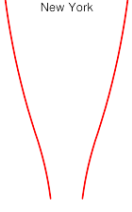
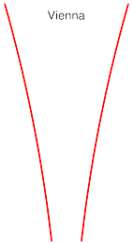

Metric Rims (.800"-36 Thread. Measurements in millimeters)

| Model | Contour | Specs | Description |
|-------|---|--|--|
| CH |  | ID 17.5 OD 25.89, 26.39, 26.89 Width 8.39 Bite Radius 1.55 Crown Radius 3.23 | Our Chicago rim is a copy of an original Farkas model. Its moderate dimensions offer good support and make it an excellent all-around model. |
| G |  | ID 17.5 OD 24.73, 25.23, 25.73 Width 7.23 Bite Radius 1.10 Crown Radius 2.39 | The same rim as on our Geyer replica model. Relatively narrow and flat it combines good support and flexibility. |
| L |  | ID 17.5 OD 26.09, 26.59, 27.09 Width 8.59 Bite Radius 1.40 Crown Radius 2.72 | Similar to our Chicago model, with a slightly sharper bite and a flatter crown. The sharper bite adds more precision to the attack. |
| V |  | ID 17.5 OD 23.99, 24.49, 24.99 Width 6.49 Bite Radius 1.63 Crown Radius 1.68 | Our Vienna rim is almost circular in its bite and crown radii. It is very flexible in all registers. |

Osmun Horn Mouthpiece Cups

Note: The contour pictures are of standard cups. Most cups are available in several diameters. Depths are measured to a #12 bore and include the rim (not shown).

| Model | Contour | Specs | Description |
|----------------|---|---|---|
| H |  | ID .650, .675" Bore 16 Depth .752" | A shallow cup with a pronounced curve in the side wall. Designed to favor the extreme high register. |
| B |  | ID .650, .675" Bore 12, 14 Depth .877" | A relatively shallow cup with a moderate cup shape supports the high register and produces a brilliant tone. |
| G (Replica) |  | ID .650 Bore 17 Depth .895" | This Geyer-copy cup, while still on the shallow end of the spectrum, has a less cup shaped profile. The flatter sides help it to produce a sound with more low frequency information. |
| L |  | ID .650, .675" 17.5mm Bore 8, 10, 12, 14, 16 Depth .926 | A moderately deep cup with a pronounced curve in the sidewall helps produce the clear, ringing sound preferred by the great British players. |
| LD |  | ID .650, .675" 17.5mm Bore 8, 10, 12, 14, 16 Depth 1.026 | Similar to the London cup but .100" deeper. The extra depth translates to a larger volume of sound and a better low register. |
| CH |  | ID .650, .675" 17.5mm Bore 8, 10, 12, 14, 16 Depth .977 | The quintessential American mouthpiece, Designed after the original Farkas model. Moderately deep and with fairly straight sides it produces an even sound rich in overtones. |

| Model | Contour | Specs | Description |
|------------------|---|---|---|
| 5BN (Replica) |  | ID .650 Bore 17 Depth .988 | Our 5BN replica cup is a little deeper than the CH and has a more pronounced cup shape. |
| CHD |  | ID .650, .675" 17.5mm Bore 8, 10, 12, 14, 16 Depth 1.077 | A deeper version of the Chicago model. |
| NY |  | ID .650, .675" 17.5mm Bore 4, 8, 10, 12 Depth .926 | The New York cup has a moderate cup shape with the curve to the throat opening pushed down about as far as it can go. It produces a large body of sound and is well suited for use with large bell horns with small mouthpipe venturis, like Conn 8D's. |
| V |  | ID .650, .675" 17.5mm Bore 8, 10, 12, 14 Depth 1.262 | The Vienna cup is different from all the others. Its shape is simple-one convex line from rim to throat. The result is a mouthpiece with a smaller interior volume, which balances the large throats normally used. The sound is rich in harmonics and even throughout registers. |
| JS (Replica) |  | ID .695" Bore 6 Depth 1.271 | This is the cup used by Jimmy Stagliano. It's enormous in every dimension and allows tremendous volume and color for the player who can master it. |