



Stainless Steel and Brass Mouthpieces

Horn Mouthpiece Spec. Sheet

Version 4.0

The Houser horn mouthpiece line allows you to create your own mouthpiece tailored to fit your playing needs. This is done by choosing a screw rim, cup and shank to make a mouthpiece in either a 2- or 3-piece configuration. This data sheet allows you to compare all of our rims and cups before you make a purchase. The profiles and cross-sections shown are for display purposes and may have been adjusted slightly to allow for scaling and comparison.

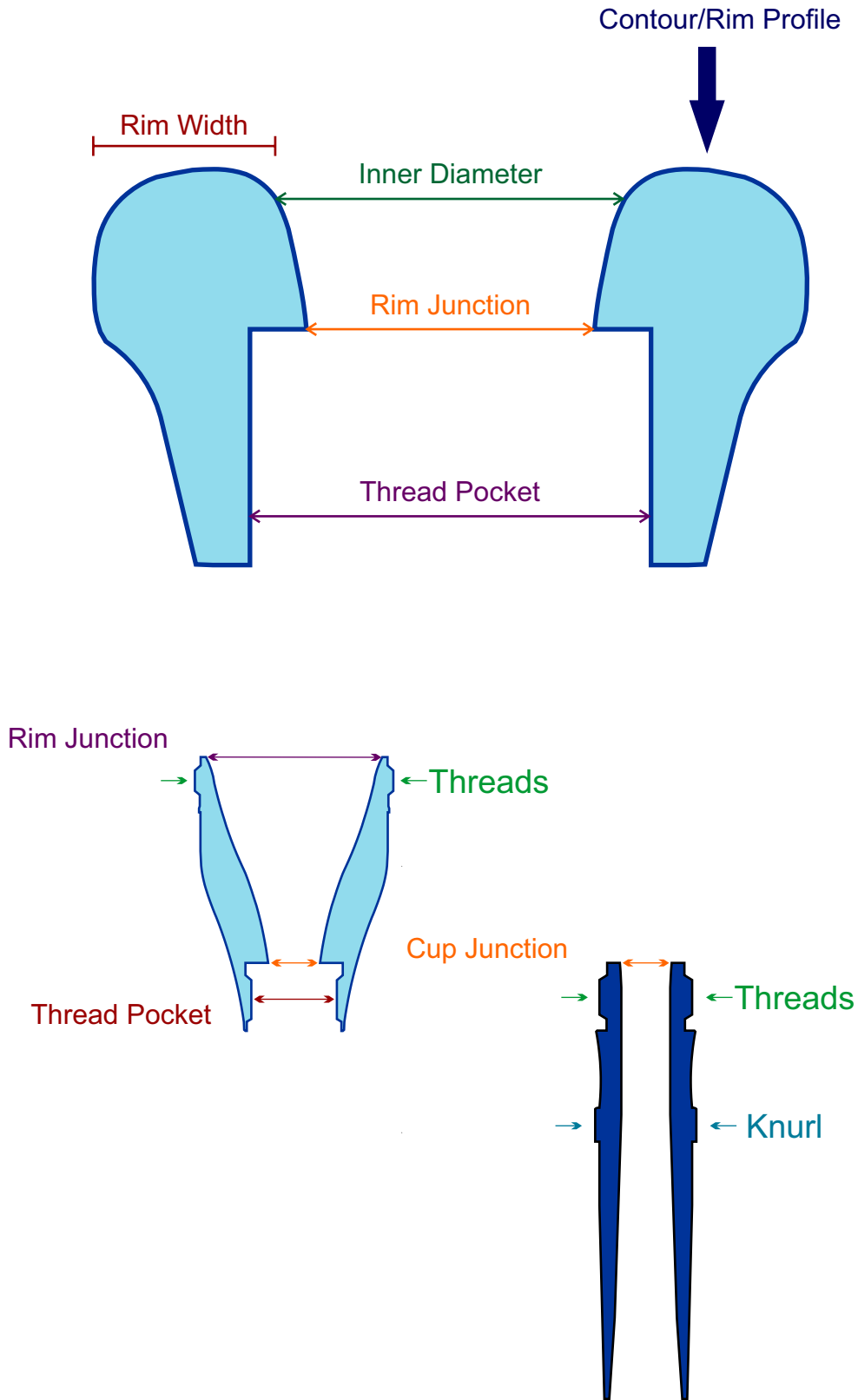
All Houser rims and cups are made with our standard .660" junction, making them compatible with most rims and cups available on the market. They are available with our standard Giardinelli threads, and additionally we offer Lawson and PHC thread options (custom order only). We have paid particular attention to overall contour designs and materials so that we can offer a broad selection.

Our rims are made from stainless steel and may be optionally ordered with an H-Kote titanium nitride coating, to further enhance playing comfort. For players with metal allergies, there is no better solution available. In our experience with stainless steel, we have noticed that even the addition of a stainless rim to a brass underpart will impart many of the perceived benefits in playing a complete stainless mouthpiece.

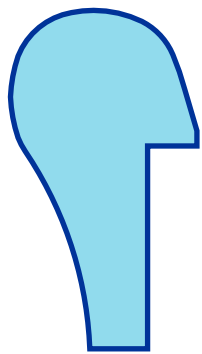
Our cups are also made from stainless steel, and some models are available in brass with silver plating. Please check the website or contact us for availability, as the silver plated brass items are only available in limited quantities. For cup options, you have the choice between 2- or 3-piece configurations. For the 3-piece configuration, each cup model has a set of corresponding screw shanks to give the desired combination needed.

For more information or recommendations, please contact us, and we will be more than happy to help you find a horn mouthpiece to suit your playing needs.

Horn Mouthpiece Component Diagrams



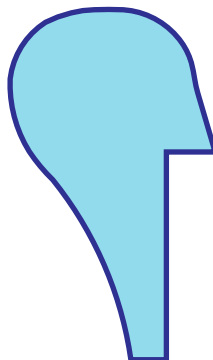
For more details about the 3PC Shank, please see the last page.



STANDLEY



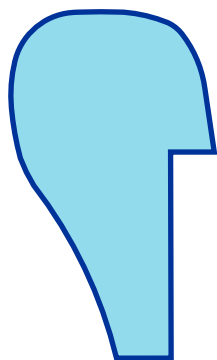
JL



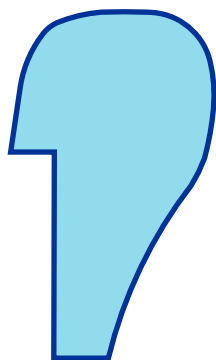
BLOOM



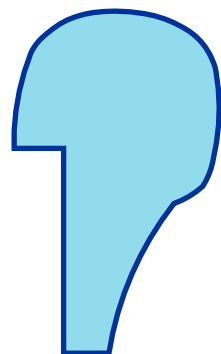
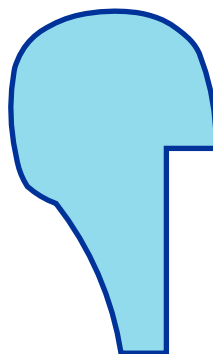
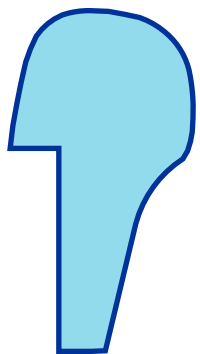
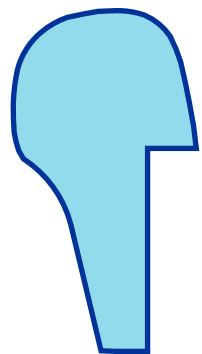
GAIL WILLIAMS



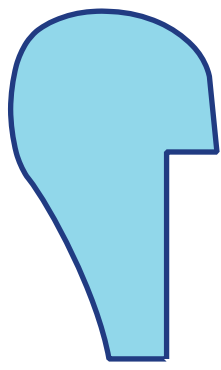
JON RING



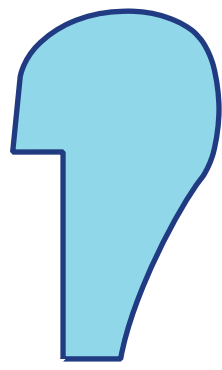
M1



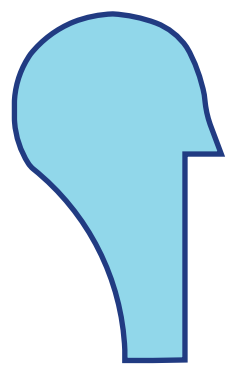
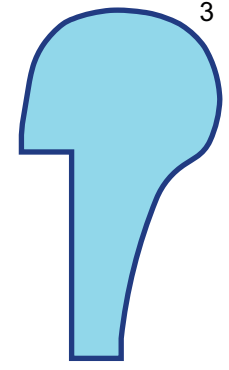
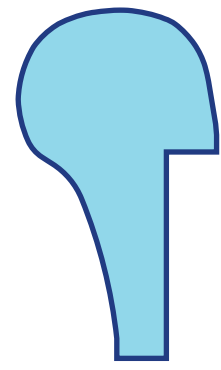
Rim Model Name	I.D. (MM)	STANDARD I.D. (MM)	WIDTH (MM)	Cup Junction (MM)	Comments
STANDLEY (GS)	17.5 - 19	18.5	3.23	0.660	Med Narrow Oval
JL	17.5 - 18.75	18	3.25	0.660	Med Narrow Oval, derived from the original Julie Landsman rim.
BLOOM (BL)	17.5 - 18.5	17.5	3.30	0.660	Med Narrow
GAIL WILLIAMS	18.5	18.5	3.30	0.660	Semi Round, Very Prominent Peak
JON RING	17.75	17.75	3.38	0.660	Semi Flat Oval
M1	17.4	17.4	3.45	0.660	Med Round/Oval, Similar to Moosewood



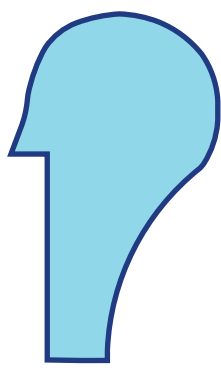
B23G



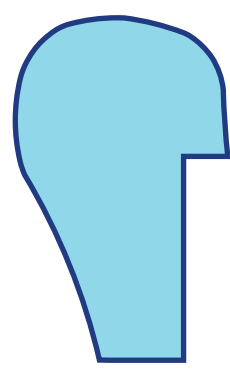
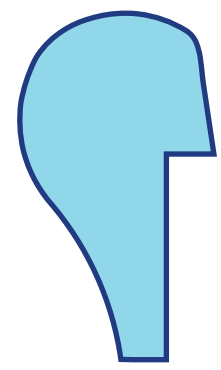
BOB WARD



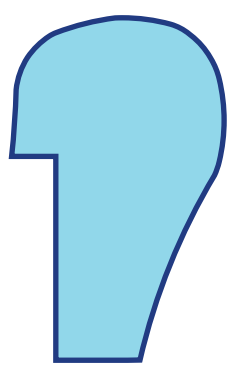
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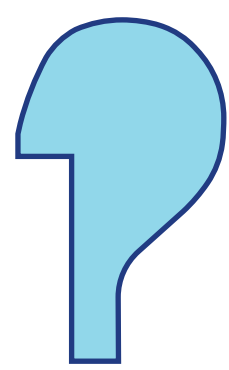
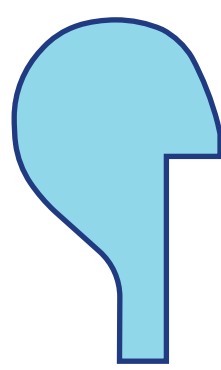
P10G



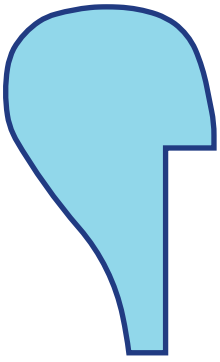
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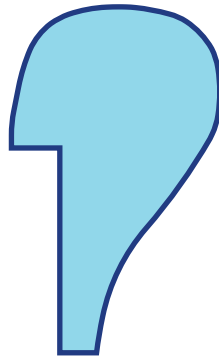
NIKKI CASH



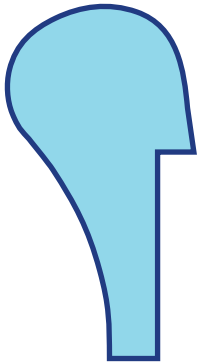
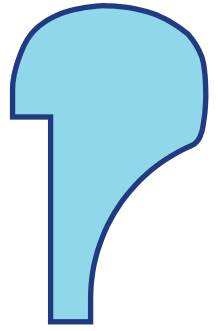
Rim Model Name	I.D. (MM)	STANDARD I.D. (MM)	WIDTH (MM)	Cup Junction (MM)	Comments
B23G	17.25	17.25	3.48	0.660	Round Reverse Peak. Similar to Lawson.
BOB WARD	17.5, 18	17.5	3.51	0.660	Oval
E	17.5 - 18.5	18	3.56	0.660	Med Round, Defined High Point. Similar to Laskey
P10G	17.5 - 18.5	17.25	3.56	0.660	Med Round, Defined Inner Edge. Similar to Lawson
AN	17.75	17.75	3.61	0.660	Semi Flat. Available with Giard. or PHC threads.
NIKKI CASH	18	18	3.68	0.660	Full Round



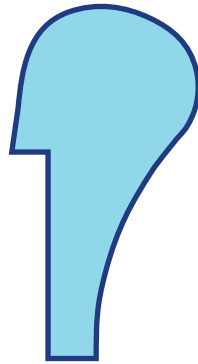
M4



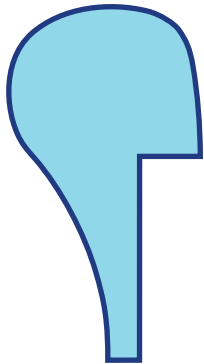
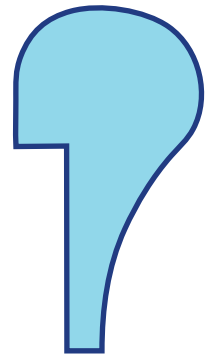
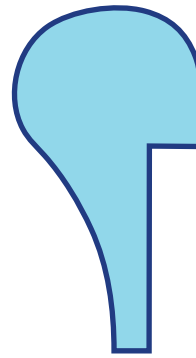
FARKAS



H1



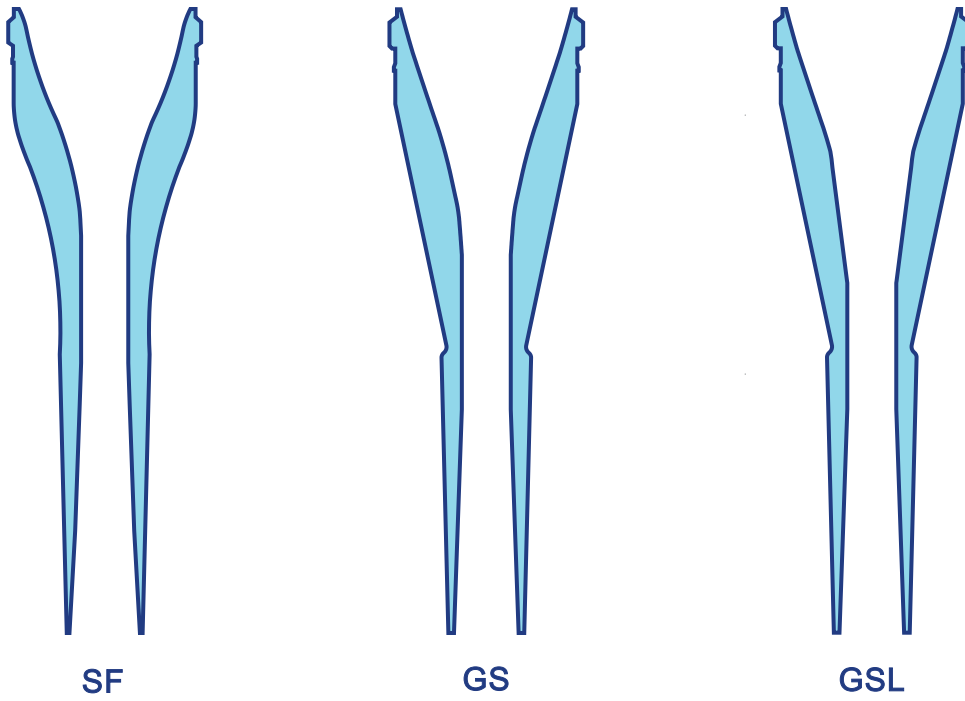
H2



H3



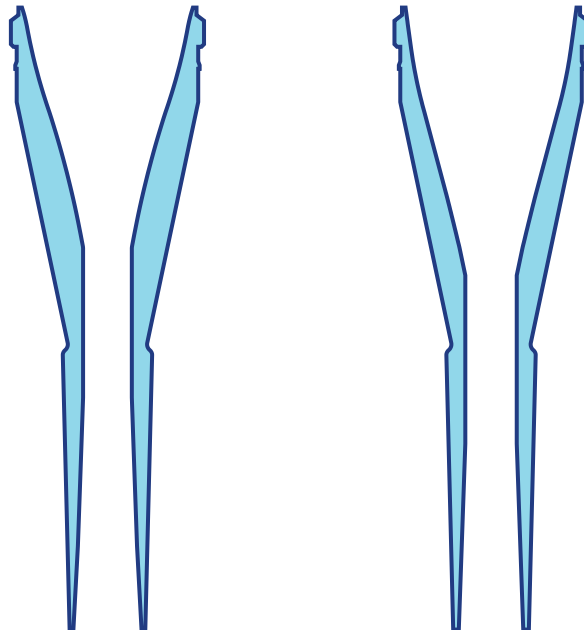
Rim Model Name	I.D. (MM)	STANDARD I.D. (MM)	WIDTH (MM)	Cup Junction (MM)	Comments
M4	17.5	17.5	3.84	0.660	Med Round/Oval. Similar to Moosewood
FARKAS	18	18	4.10	0.660	Based on the 1960's Farkas
Houghton H1	17.25 - 18.25	17.5	3.73	0.660	Based on a modified "E" Houser rim, 17.5mm STD
Houghton H2	17.75	17.75	3.96	0.660	Based on a wide Giardinelli rim
Houghton H3	17.75	17.75	3.73	0.660	Based on an original block-letter Farkas rim

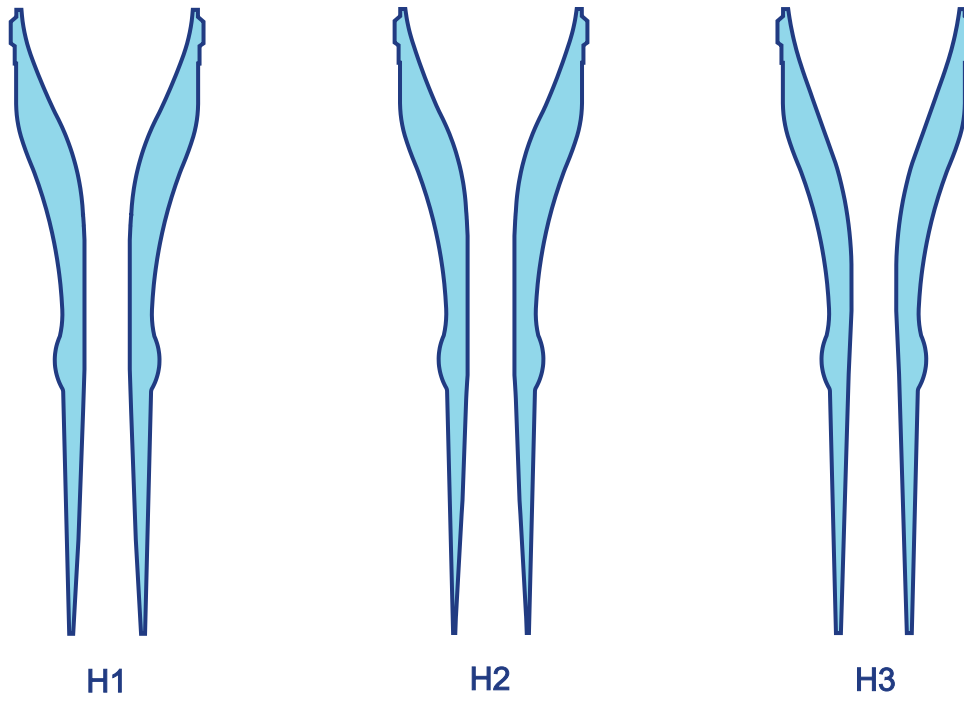


Cup Model Name	Depth of Cup	Comments
San Francisco (SF)	Medium	The San Francisco Model is used by the horn section of the San Francisco Symphony and is based on the time-tested, bowl-shaped cup design that has been found to be most compatible with Geyer-style horns. Its design can be traced back to mouthpieces made by Carl Geyer himself and offers quick response and evenness throughout all registers. It provides a rich, complex tone in lower dynamics and plenty of brilliance and projection when played loudly. This allows the player access to a wide variety of tone color possibilities without sacrificing response and flexibility.
Standley (GS)	Medium	An excellent all-round mouthpiece developed for Gene Standley. The cup is slightly S shaped and offers substantial cup volume for a full sound. The medium depth and efficient throat facilitate the upper range.
Standley (GSL)	Medium	Similar to the GS, but in this version, the throat is modified to allow great facility in the lower range of the horn. An excellent mouthpiece for 2nd & 4th horn.
JL	Med. Deep	Based on the original cup developed for Julie Landsman. Her original cup was brass/silverplate and has a .650 junction, while we offer the JL model in our standard .660 junction. Features a medium deep cup, and moderately large bore. Offered in #6, #8, #10, #12 bore for horns or players needing more resistance.
Bloom (BL)	Deep	This cup model is based on the one developed for Myron Bloom. It features a generous upper bowl shape that gives rise to a deep curved throat with a very large cup volume. Bloom's personal model is a #1 bore. Our recommendation is to start with a #8 bore and experiment further for resistance. We offer it in #1, #4, #6, #8, and #10 bore sizes.

JL

BL





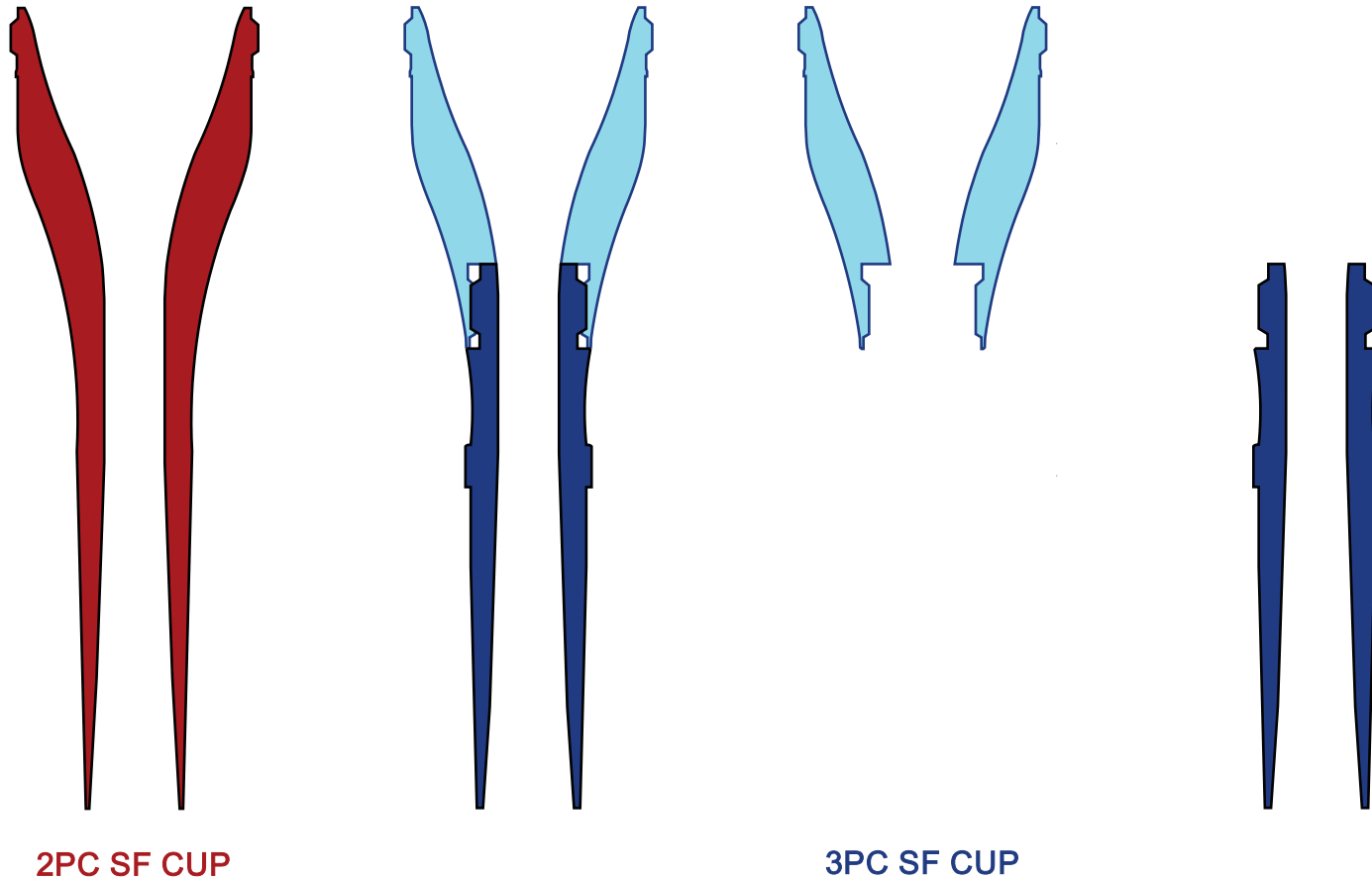
H1

H2

H3

Cup Model Name	Depth of Cup	Comments
H1	Medium	The Houghton H1 is a bowl shaped, high volume cup derived from the Houser San Francisco model. It has a #14 bore, +1mm external taper, and a #2 backbore. The H1 cup is offered in both American (Standard) and European shank tapers and our standard Giardinelli threading.
H2	Medium	The Houghton H2 is a bowl shaped, standard volume cup derived from the Houser San Francisco model. It has a #14 bore, +1mm external taper, and a #3 backbore. The H2 cup is offered in both American (Standard) and European shank tapers and our standard Giardinelli threading.
H3	Med. Deep	The Houghton H3 is a deep, funnel/bowl shaped combination cup that is derived from an original 1960's era "block-letter" Farkas model. It has a #17 bore, +1mm external taper, and a scanned Farkas backbore from an original cup. The H3 cup is offered in both American (Standard) and European shank tapers and our standard Giardinelli threading.

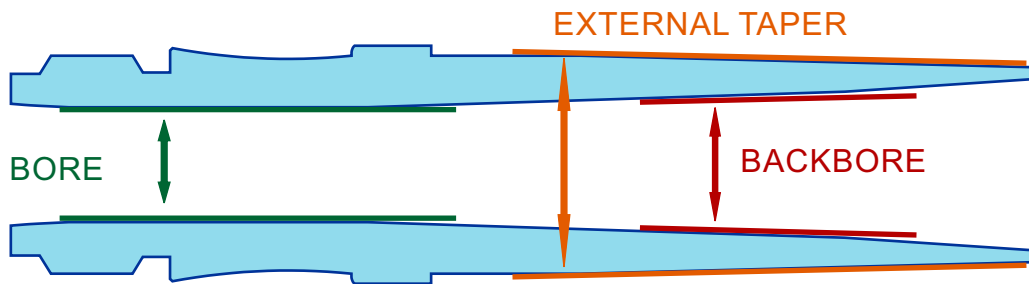
Cup Models: 2PC and 3PC Comparison



The Houser 3-piece mouthpiece configuration is made up of a screw rim, cup, and shank. The cup and shank are model specific – each cup model has its own unique set of shanks. Each shank includes the lower portion of the cup, the bore (drill hole), the backbore (internal taper), and the external taper (governs seating depth in receiver).

Please refer to the previous pages for the other cup model profiles.

Components of a 3PC Horn Shank



BORE: The bore refers to the drill size.

EXTERNAL TAPER (All cup models): The external taper determines the seating depth of the mouthpiece.

#0: .293 in / 7.442 mm at tip. Similar to Schilke.

#1: .295 in / 7.493 mm at tip. Similar to some Laskey & PHC universal shanks.

#2: .298 in / 7.569 mm at tip. Similar to Houser, Lawson (older), & Alexander shanks.

#3: .300 in / 7.620 mm at tip. Has no counterpart to our knowledge.

E: European. Has a taper with a shallower angle. Works with most European made horns, and typically gives a better response when used in horn receivers made with a dual taper.

BACKBORE (SF model only*): The backbore refers to the internal taper.

- 1 - The tightest bore, will provide a compact sound
- 2 - More open than the No. 1, standard choice of the San Francisco horn section
- 3 - Similar in resistance to the No. 2, but offers even more color and brightness
- 4 - The largest back bore, with a larger drill size (#13), suited to lower horn parts.

* For all other cup models, one standard backbore is used.

Key to Shank Labeling

SF 14 0 2

↑
CUP MODEL

↑
BORE

↑
EXTERNAL TAPER

↑
BACKBORE

GS 12 0

↑
CUP MODEL

↑
BORE

↑
EXTERNAL TAPER

*This format is used for GS, GSL, JL and BL models