Ultimate Brass

2026 Product Catalog

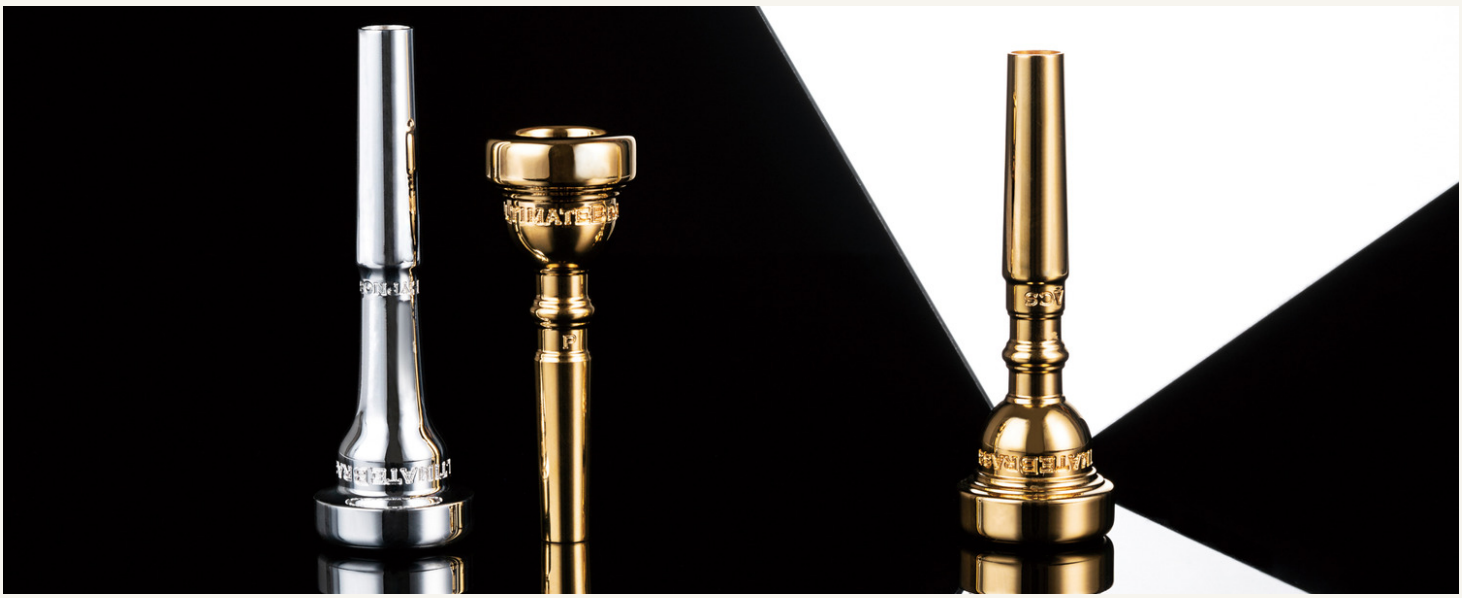
Brass mouthpieces & trumpet leadpipes



Bringing your imagination to life.

About Ultimate Brass

Philadelphia, 2013



Mouthpieces by Ultimate Brass

Bass trombonist Sun He founded Ultimate Brass in Philadelphia in 2013 as a brass repair workshop. Musicians from The Philadelphia Orchestra, the Chicago Symphony Orchestra and the New York Philharmonic have brought their instruments to the shop for repair, adjustment and modification.

Today Ultimate Brass makes mouthpieces for the entire brass family, from piccolo trumpet to contrabass trombone and tuba. The company also designs and makes trumpets, trombones and accessories. Repair and modification remain central to its work.

Many models take their names from the sound or the playing situation they were designed for. Orchestral musicians in New York, Berlin, Singapore, Melbourne, Beijing and Shanghai use Ultimate Brass mouthpieces and accessories in their daily work.

Designing a mouthpiece



Mouthpiece blanks and cutting tools at the workbench.

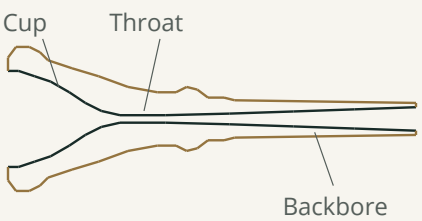
Signature models

We work closely with each artist to understand how they play and the sound they want. We build a prototype for them to use over time in rehearsals and performances, then refine it with their feedback.

Standard models

The workshop develops the prototypes and professional musicians play-test them. Once the design is settled, CNC machining keeps cup and throat dimensions consistent.

Reading the dimensions



Section not to scale

Rim diameter is measured inside the rim. Throat diameter is measured at the narrowest point. Two models with the same rim diameter can have different cup depths, throat diameters or backbores.

ultbrass.com/design-technology

Artist testimonials



Anthony Prisk

Trumpet, The Philadelphia Orchestra

“Designing a mouthpiece line with Sun He and Ultimate Brass was a labor of love and art. UB created a collection of mouthpieces for my playing in the Philadelphia Orchestra as well as solo and chamber music performances. The Prisk C works great on C trumpet and Bb trumpet in the orchestra. The Prisk B is great for Bb trumpet solo playing and Eb trumpet. I use the Prisk P for orchestral piccolo and light lead playing on Bb trumpet. And the Prisk R and RC work well on both my Weimann and Schagerl rotary trumpets and is also useful for softer piston trumpet playing. The Prisk line of mouthpieces has been used and developed on the job and gives me the confidence to find my voice in all situations.”



Timothy Higgins

Principal Trombone, San Francisco Symphony

“The Ultimate Brass mouthpieces are the best in the business. They accomplish the beauty, depth, resonance, and power necessary for high players seeking the highest artistic levels. I can play with the widest range of expression on any of the Ultimate Brass mouthpieces. From Schubert to Mahler and Bach to Strauss, these mouthpieces cover it all!”

Read all artist testimonials at ultbrass.com/testimonials

Artist testimonials



Adam Frey

Euphonium soloist

“A player always looks for the ultimate goal of combining equipment with skill and creativity. I am so excited to achieve this milestone with the new Adam Frey model mouthpiece from Ultimate Brass!”



Matthew Vaughn

Co-Principal Trombone, The Philadelphia Orchestra

“I am thrilled to be working with Ultimate Brass on mouthpiece design, and the “Vaughn” model is working great for me with The Philadelphia Orchestra! The A1 alto mouthpiece is also my top choice for orchestral alto trombone, I just did Beethoven 5 and 9 and nailed it!”



Christopher Bassett

Bass Trombone, San Francisco Symphony

“With the Ultimate Brass BASSETT model mouthpiece, I have found that elusive element to my sound which I had been searching for years. This mouthpiece strikes a perfect balance between clarity and richness, and focus and depth. It provides plenty of security for taking the biggest risks in soft playing during recitals and also maintains plenty of strength to project over a major symphony orchestra in the largest of Mahler symphonies. This mouthpiece truly does it all for the high-level player seeking the highest level equipment.”

Read all artist testimonials at ultbrass.com/testimonials

Trumpet leadpipes

The leadpipe connects the mouthpiece receiver to the main tuning slide. Its pairing with the mouthpiece influences the resistance a player feels and how a note speaks.



Receiver on an assembled trumpet





Leadpipes and mouthpieces

B-flat / C / CM

Bore sizes and design features follow.

Leadpipe specifications

Model	Bore (in)	Bore (mm)
B-flat (Bb)	.352"	8.94
C	.352"	8.94
CM	.350"	8.89

Metric values are rounded to the nearest 0.01 mm.

Intonation

The leadpipes are designed to address common intonation tendencies on B-flat and C trumpets, including notes that run flat in certain registers.

Response & flexibility

A quick, even response across registers helps slurs and transitions between notes feel smoother.

Instrument character

The design aims to improve playability and enrich the tone while preserving the trumpet's own voice.

Orchestras our clients play in

Players in these orchestras have chosen Ultimate Brass mouthpieces or brought their instruments to our workshop for repair and maintenance.

North America

New York Philharmonic

Boston Symphony Orchestra

The Cleveland Orchestra

Los Angeles Philharmonic

Seattle Symphony

Vancouver Symphony Orchestra

The Philadelphia Orchestra

Chicago Symphony Orchestra

St. Louis Symphony Orchestra

San Francisco Symphony

Toronto Symphony Orchestra

National Arts Centre Orchestra

Europe

Vienna Philharmonic

Royal Concertgebouw Orchestra

Deutsches Symphonie-Orchester Berlin

Orchestra dell'Accademia Nazionale di Santa Cecilia

Vienna Synchron Orchestra

Berliner Philharmoniker

Orquesta Nacional de España

Mariinsky Orchestra

Asia Pacific

China National Symphony Orchestra

China NCPA Orchestra

Hangzhou Philharmonic Orchestra

Shanghai Symphony Orchestra

China Philharmonic Orchestra

Melbourne Symphony Orchestra

Mouthpiece specifications

Instrument	Pages
Trumpet	10–11
Piccolo trumpet, cornet & flugelhorn	12
Horn	13
Alto trombone	14
Tenor trombone	15–16
Bass trombone	17–18
Contrabass trombone	19
Euphonium	20
Tuba	21–22
Additional order codes	23

Reading the charts

Rim diameter

The inside diameter of the mouthpiece rim.

Throat diameter

The diameter at the narrowest point between the cup and backbore.

Units Dimensions are given in inches (in) and millimeters (mm), as marked in each column.

Cup depth Shallow / Medium / Medium deep / Deep / Very deep

Trumpet

Standard series

Model	Rim in.	Rim mm	Throat in.	Throat mm	Cup	Shank / use	Comparison
24	0.681	17.30	0.151	3.84	Medium (C cup)	Regular	1C
24S	0.681	17.30	0.151	3.84	Medium (C cup)	Short	1C
AC	0.654	16.61	0.151	3.84	Medium (C cup)	Regular	1/2C
ACS	0.654	16.61	0.151	3.84	Medium (C cup)	Short	1/2C
GFT	0.654	16.61	0.148	3.76	Medium-shallow	Regular	1/2C
GFTS	0.654	16.61	0.148	3.76	Medium-shallow	Short	1/2C
65	0.670	17.02	0.151	3.84	Medium-shallow	Regular	1 1/4C (deeper)
65S	0.670	17.02	0.151	3.84	Medium-shallow	Short	1 1/4C (deeper)
125	0.667	16.94	0.151	3.84	Medium-shallow	Regular	1 1/4C
125S	0.667	16.94	0.151	3.84	Medium-shallow	Short	1 1/4C
230	0.653	16.59	0.153	3.89	Shallow	Regular	1 1/2C (shallower)
230S	0.653	16.59	0.153	3.89	Shallow	Short	1 1/2C (shallower)
17S	0.664	16.87	0.153	3.89	Medium (C cup)	Regular	1 1/4C
17CS	0.664	16.87	0.153	3.89	Medium (C cup)	Short	1 1/4C
SO3	0.657	16.69	0.148	3.76	Medium-shallow	Regular	1/2C
Vanir	0.662	16.81	0.146	3.71	Deep (B cup)	Regular	1 1/4C
Wein	0.660	16.76	0.151	3.84	Deep (B cup)	Rotary trumpet	1/2C
Hypnos	0.633	16.08	0.140	3.56	Very shallow	Classic jazz	—
Cyborg 3C	0.645	16.38	0.149	3.78	Medium	Standard	3C
Cyborg 5C	0.640	16.25	0.144	3.66	Medium	Standard	Bach 5C

Short shanks suit C, E-flat and D trumpets. 17S is regular length, and 17CS is short.

Trumpet

Mastiff series

Model	Rim in.	Rim mm	Throat in.	Throat mm	Cup	Trumpet
Mastiff M1 B	0.665	16.89	0.165	4.19	Medium (C cup)	B-flat
Mastiff M1 C	0.665	16.89	0.165	4.19	Medium (C cup)	C
Mastiff M2 B	0.665	16.89	0.165	4.19	Extra deep	B-flat
Mastiff M2 C	0.665	16.89	0.165	4.19	Extra deep	C
Mastiff M3 B	0.657	16.69	0.158	4.01	Medium (C cup)	B-flat
Mastiff M3 C	0.657	16.69	0.158	4.01	Medium (C cup)	C
Mastiff 2.5	0.659	16.74	0.151	3.84	Medium (C cup)	—

Prisk signature series

Model	Rim in.	Rim mm	Throat in.	Throat mm	Drill	Cup
Prisk B	0.658	16.71	0.151	3.84	#24	MD+
Prisk C	0.658	16.71	0.151	3.84	#24	Medium-deep
Prisk C-25	0.658	16.71	0.1495	3.80	#25	Medium-deep
Prisk C-26	0.658	16.71	0.147	3.73	#26	Medium-deep
Prisk R	0.659	16.73	0.151	3.84	#24	Deep
Prisk RC	0.659	16.73	0.151	3.84	#24	Medium-deep
Prisk P	0.656	16.69	0.143	3.63	#27	Shallow
Prisk PS	0.656	16.69	0.143	3.63	#27	Shallow

B is for B-flat trumpet, C for C trumpet, and R and RC for rotary trumpet. Prisk P has a trumpet shank and Prisk PS a cornet shank.

Piccolo trumpet, cornet & flugelhorn

Piccolo trumpet

Model	Rim in.	Rim mm	Throat in.	Throat mm	Cup	Shank
P7	0.646	16.41	0.143	3.63	Medium	Cornet
P7T	0.646	16.41	0.143	3.63	Medium	Trumpet
P	0.646	16.41	0.143	3.63	Deep	Cornet
PT	0.646	16.41	0.143	3.63	Deep	Trumpet
Prisk P	0.656	16.69	0.143	3.63	Shallow	Trumpet
Prisk PS	0.656	16.69	0.143	3.63	Shallow	Cornet

P7 and P7T have medium cups. P and PT have deep cups. Prisk P and PS share a shallow cup and #27 throat.

Etruscan series for cornet and flugelhorn

Model	Rim in.	Rim mm	Throat in.	Throat mm	Cup	Rim comparison
Etruscan 0	0.665	16.89	0.177	4.50	Medium	DW 3 / Sparx 3
Etruscan 1	0.666	16.92	0.181	4.60	Deep	DW 3 / Sparx 3
Etruscan 2	0.650	16.51	0.181	4.60	Deep	DW 4 / Sparx 4
Etruscan 3	0.656	16.66	0.159	4.04	Medium	DW 4 / Sparx 4
Etruscan E	0.635	16.13	0.143	3.63	Shallow	Between Bach 7C and 9C
Etruscan FL-1	0.648	16.46	0.181	4.60	Deep	DW 4BFL

Cornet models 0 and 3 have a large-volume backbore. Models 1 and 2 have a faster-taper backbore.
E is for E-flat soprano cornet, and FL-1 is a flugelhorn model with a large-volume backbore. Comparisons refer to rim size.

Horn

Standard series

Model	Rim in.	Rim mm	Throat in.	Throat mm	Cup
77	0.689	17.50	0.179	4.55	Deep
77H	0.689	17.50	0.179	4.55	Deep
79	0.712	18.08	0.165	4.20	Medium-deep
79H	0.712	18.08	0.165	4.20	Medium-deep
1782	0.709	18.00	0.167	4.25	Deep
1782+	0.713	18.10	—	—	Deep
Magnum	0.712	18.08	0.171	4.34	Deep
775D	0.699	17.75	0.179	4.55	Deep
775DL	0.699	17.75	0.182	4.62	Deep
XLD	0.728	18.50	0.189	4.80	Extra deep

The 77, 77H, 79 and 79H use slightly U-shaped cups. Magnum has a V cup. 775DL has a larger throat than 775D.

Signature series

Model	Rim in.	Rim mm	Throat in.	Throat mm	Cup
J. Lang	0.663	16.84	0.199	5.05	Medium-deep
J. Lang 2	0.663	16.84	0.199	5.05	Medium
ZH1	0.689	17.50	0.158	3.99	Deep
ZH 25	0.700	17.78	0.161	4.09	Deep
P. Solomon	0.666	16.92	0.199	5.05	Medium

The ZH 25 shares the ZH1 deep cup. It has a 17.78 mm rim and a throat 0.10 mm larger than the ZH1.

Alto trombone

Classic models

Model	Rim in.	Rim mm	Throat in.	Cup depth	Shank
A1	1.006	25.55	0.233	Shallow	Small

Signature models

Model	Rim in.	Rim mm	Throat in.	Cup depth	Shank
Yamālto	1.024	26.01	0.233	Shallow	Small
Higgins Alto 1	1.002	25.45	0.221	Shallow	Small
Higgins Alto 2	1.006	25.55	0.221	Medium shallow	Small



Higgins Alto 1 & Alto 2

Timothy Higgins's two alto mouthpieces share a small shank and a .221-inch throat. The Alto 1 has a 25.45 mm rim and shallow cup. The Alto 2 has a 25.55 mm rim and a slightly deeper cup.

Tenor trombone

Classic models

Model	Rim in.	Rim mm	Throat in.	Throat mm	Cup depth	Shank
Goldilocks	1.042	26.47	0.275	6.99	Medium	Large
Gantrish	1.037	26.34	0.282	7.16	Medium deep	Large
Phoenix.3	1.028	26.11	0.280	7.11	Medium deep	Large
4	1.022	25.96	0.282	7.16	Medium deep	Large
4.1	1.022	25.96	0.282	7.16	Medium deep	Large
SMP*	1.020	25.91	0.283	7.19	Medium deep	Large
SMP **	1.028	26.11	0.283	7.19	Medium deep	Large
5.1	1.017	25.83	0.282	7.16	Medium	Large
Baldr	1.012	25.70	0.271	6.88	Medium deep	Large
4.5	1.009	25.63	0.282	7.16	Medium deep	Large
Knights Templar	1.002	25.45	0.290	7.37	Medium deep	Large
5G	1.002	25.45	0.276	7.00	Medium deep	Large
S1	1.008	25.60	0.276	7.01	Medium	Small

Tenor trombone

Signature models

Model	Rim in.	Rim mm	Throat in.	Cup depth	Shank
Vaughn	1.044	26.52	0.280	Medium deep	Large
Yama-Tenor 3	1.051	26.70	0.283	Medium deep	Large
Yama-Tenor 3.5	1.051	26.70	0.290	Medium	Large
Yama-Tenor 3XD	1.051	26.70	0.283	Deep	Large
Yama-Tenor 5	1.016	25.81	0.283	Medium deep	Large
Higgins Symphony	1.036	26.31	0.283	Medium deep	Large
Higgins Recital	1.032	26.21	0.283	Medium deep	Large
Wolfe Tone Zippy	1.028	26.11	0.263	Medium	Large
Wolfe Tone Solo	1.022	25.96	0.280	Medium deep	Large
Wolfe Tone Orchestral	1.036	26.31	0.270	Medium deep	Large

Bass trombone

Classic models

Model	Rim in.	Rim mm	Throat in.	Throat mm	Cup
EUREKA	1.136	28.85	0.314	7.98	Deep
G1	1.123	28.52	0.320	8.13	Deep
G3	1.141	28.98	0.316	8.02	Deep
G110	1.134	28.80	0.317	8.05	Deep
G125M	1.124	28.55	0.298	7.57	Medium Deep
GM125	1.137	28.88	0.316	8.03	Medium Deep
G375	1.105	28.07	0.325	8.26	Medium
Taranis	1.161	29.49	0.312	7.92	Deep
Tariano	1.122	28.50	0.314	7.98	Medium Deep

Bass trombone

Signature models

Model	Rim in.	Rim mm	Throat in.	Throat mm	Cup
Denson Paul Pollard	1.161	29.49	0.318	8.08	Deep
Curran Leggiero	1.139	28.93	0.318	8.08	Medium Deep
Curran Recital	1.139	28.93	0.318	8.08	Deep
Curran Orchestral	1.139	28.93	0.318	8.08	Deep
Curran Crusher	1.139	28.93	0.318	8.08	Very Deep
Bond 008 Maple Leaf	1.160	29.46	0.311	7.90	Deep
Bond 008 Maple Leaf H	1.160	29.46	0.311	7.90	Deep
Bond 008 Maple Leaf 0.5	1.154	29.30	0.311	7.90	Deep
Bond 008 Maple Leaf 1	1.141	28.98	0.311	7.90	Deep
Bond 008 Maple Leaf 1¼	1.122	28.50	0.311	7.90	Medium Deep
Bond 008 Maple Leaf 1½	1.105	28.07	0.310	7.87	Medium Deep
Morningstar · Ilan Morgenstern	1.155	29.34	0.313	7.95	Deep
Bassett	1.105	28.07	0.306	7.77	Medium
Bassett O	1.105	28.07	0.306	7.77	Medium, slightly deepened
Wang Wei M	1.123	28.52	0.314	7.98	Medium Deep
Wang Wei L	1.127	28.63	0.314	7.98	Deep
Maschkowski Bass	1.137	28.88	0.318	8.08	Deep

Morningstar is Ilan Morgenstern’s signature bass trombone mouthpiece.

Contrabass trombone

Signature models

Model	Rim in.	Rim mm	Throat in.	Throat mm	Cup
BOND-KBP	1.201	30.51	0.313	7.95	Very Deep
Maschkowski CB	1.179	29.95	0.296	7.52	Very Deep

BOND-KBP was developed with Zachary Bond. Maschkowski CB is the Tomer Maschkowski signature model.



Tomer Maschkowski

His Maschkowski CB for contrabass trombone combines a 29.95 mm rim diameter, 7.52 mm throat and very deep cup.

Euphonium

Standard series

Model	Rim in.	Rim mm	Throat in.	Cup depth	Shank
AZ	1.039	26.39	0.296	Deep	Large
Gantrish	1.037	26.34	0.282	Medium deep	Large

Gantrish fits both tenor trombone and euphonium.

Signature series

Model	Rim in.	Rim mm	Throat in.	Cup depth	Shank
AF	1.020	25.91	0.280	Medium deep	Large
AF-S	1.020	25.91	0.280	Medium deep	Small

The Adam Frey signature models fit large-shank (AF) and small-shank (AF-S) receivers.



Adam Frey Signature

The AF and AF-S share a rim, throat and cup design. Choose the AF for a large-shank receiver or the AF-S for a small-shank receiver.

Tuba

Standard and Tubifer series

Model	Rim in.	Rim mm	Throat in.	Throat mm	Cup
C-35HW	1.319	33.50	0.323	8.20	Deep, Helleberg-style
C-32HW	1.307	33.20	0.323	8.20	Deep, Helleberg-style
C-30HW	1.300	33.02	0.323	8.20	Deep, Helleberg-style
C-28HW	1.292	32.82	0.320	8.13	Deep, Helleberg-style
F1-HW	1.299	32.99	0.324	8.23	Medium deep
F2-HW	1.292	32.82	0.322	8.18	Medium
Tubifer WD 0	1.319	33.50	0.340	8.64	Warren Deck cup
Tubifer WD 1	1.308	33.22	0.340	8.64	Warren Deck cup
Tubifer WD 2	1.298	32.97	0.340	8.64	Warren Deck cup

Tubifer WD 0, 1 and 2 are also sold as Tubifer 0, 1 and 2.

Tuba

Micky Wrobleski signature series

Model	Rim mm	Throat mm	Cup	Backbore
MW FL1	32.90	8.20	Medium, slightly bowl-shaped	Similar to PL1
MW FS1	32.90	7.92	Medium deep, slight V	Less open than PL1
MW EF SOLO	32.90	7.95	Shallower FL1 cup	MW Solo
MW PL1	32.90	8.20	Deepest MW cup	More open than Helleberg
MW E1	32.90	8.20	Slightly shallower	Between PL1 and FS1
MW RS1	32.90	8.28	Medium deep, bowl-shaped	For smaller rotary tubas
MW RF Solo	32.90		ES Solo profile	ES Solo profile

The RF Solo combines the RS1 rim and outer blank with the ES Solo interior.

Tak-Chun Lai signature series

Model	Rim in.	Rim mm	Throat mm	Cup / instrument
LTC C	1.320	33.50	8.20	Helleberg-style / CC tuba
LTC F			8.20	Slight U shape / piston F tuba

Tim Buzbee signature series

Model	Rim mm	Throat mm	Cup	Instrument
TCB C1	33.20	8.23	Deep	CC tuba
TCB F	33.00	8.20	Medium	F tuba

TCB F shares its dimensions and medium cup depth with the earlier Buzz F2.
U.S. standard and European (0.535 in) shanks are available.

Additional order codes

Model	Instrument
GFT XT	Trumpet
LG-F-HW-E	Tuba

Mouthpiece fitting

To try a mouthpiece, contact your nearest dealer or book a one-on-one fitting at our shop. Shop visits are by appointment.

info@ultbrass.com **+1 405 549 8200**

www.ultbrass.com

Visit our website