



TOOLS & ACCESSORIES FOR THE ULTRA TEC FANTASY & CONCAVE MACHINES

(Revision 3. March 1, 2011)

A Guide to TOOL CODES

Because of the large variety of tools (shapes sizes, materials) their item numbers are coded, that is, they have *meaningful* numbers and you can tell *what* the tool is from its number. **When ordering**, you can use these codes - or, just tell us what you want - that is, what shape, what size, what material and we will figure out the code to put on our paperwork.

Here's how it works:

- There are different **Shapes** - these are, along with their number codes:

| | |
|------------------------|-----------|
| Cylindrical | 26 |
| Angled Slitting | 27 |
| Ball | 28 |

- There are different **Materials** - their coding is as follows:

| | |
|--------------------------|-----------|
| Phenolic | 05 |
| Copper | 07 |
| Maple. | 08 |
| Diamond 3000 mesh | 24 |
| Diamond 1200 mesh | 25 |
| Diamond 600 mesh | 26 |
| Diamond 260 mesh | 27 |

- On **Cylindrical and Ball shapes**, there are different **tool diameters**. There are certain standard sizes, those listed, but you can get almost any in-between full millimeter size you want. The code for the size is the diameter measurement in millimeters. For example, .14 means 14 mm.

Example: 26.05.14 is a cylindrical tool, phenolic, 14 mm diameter.

On **Angled Slitting tools**, there are different **included angles**. Standard angles are 45° and 60°, but you can get any included angle you want between 30° and 120°. The desired included angle is coded in the last two digits

Example: 27.07.41 is an Angled Slitting tool, Copper, 41° included angle.

TOOL Lists

| <u>Order Code</u> | <u>Description</u> | <u>Price (USD)</u> |
|-------------------|--------------------|--------------------|
|-------------------|--------------------|--------------------|

CYLINDRICAL Tools (L=30 mm, OD min 8 mm OD max 23 mm)

Non-diamond surfaces

| | | |
|----------|--|--------|
| 26.07.08 | Cylindrical Tool, Copper, 8 mm | \$25. |
| 26.07.13 | Cylindrical Tool, Copper, 13 mm | \$25 |
| 26.07.15 | Cylindrical Tool, Copper, 15 mm | \$25 |
| 26.07.17 | Cylindrical Tool, Copper, 17 mm | \$25 |
| 26.07.23 | Cylindrical Tool, Copper, 23 mm | \$25 |
| 26.07.S1 | Cylindrical 5 Tool Basic Set, 8,13,15,17,23 mm, Copper | \$105. |
| | | |
| 26.05.19 | Cylindrical Tool, Phenolic, 8 mm | \$25 |
| 26.05.13 | Cylindrical Tool, Phenolic, 13 mm | \$25 |
| 26.05.15 | Cylindrical Tool, Phenolic, 15 mm | \$25 |
| 26.05.17 | Cylindrical Tool, Phenolic, 17 mm | \$25 |
| 26.05.19 | Cylindrical Tool, Phenolic, 23 mm | \$25 |
| 26.05.S1 | Cylindrical 5 Tool Basic Set, 8,13,15,17,23 mm, Phenolic | \$105. |
| | | |
| 26.08.19 | Cylindrical Tool, Maple, 8 mm | \$25 |
| 26.08.13 | Cylindrical Tool, Maple, 13 mm | \$25 |
| 26.08.17 | Cylindrical Tool, Maple, 15 mm | \$25 |
| 26.08.17 | Cylindrical Tool, Maple, 17 mm | \$25 |
| 26.08.23 | Cylindrical Tool, Maple, 23 mm | \$25 |
| 26.08.S1 | Cylindrical 5 Tool Basic Set, 8,13,15,17,23 mm, Maple | \$105. |

NOTE: The above listing shows "standard" Sizes. In-between, "non-standard" Sizes can be ordered, but if you do, a \$30 setup charge is added to your order (So, the price of a single in-between sized tool is, in effect, \$55). There is only a single setup charge however for any number or mix of non-standard Sizes or Materials ordered at the same time.

Plated Diamond Tools - these are diamond plated OD and endface

| | | |
|----------|---------------------------------------|-------|
| 26.24.06 | Cylindrical Tool, 3000 Diamond, 6 mm | \$70. |
| 26.24.08 | Cylindrical Tool, 3000 Diamond, 8 mm | \$70. |
| 26.24.13 | Cylindrical Tool, 3000 Diamond, 13 mm | \$70 |
| 26.24.15 | Cylindrical Tool, 3000 Diamond, 15 mm | \$70 |
| 26.24.17 | Cylindrical Tool, 3000 Diamond, 17 mm | \$82 |
| 26.24.23 | Cylindrical Tool, 3000 Diamond, 23 mm | \$82 |
| 26.25.08 | Cylindrical Tool, 1200 Diamond, 8 mm | \$70. |
| 26.25.13 | Cylindrical Tool, 1200 Diamond, 13 mm | \$70 |
| 26.25.15 | Cylindrical Tool, 1200 Diamond, 15 mm | \$70 |
| 26.25.17 | Cylindrical Tool, 1200 Diamond, 17 mm | \$82 |
| 26.25.23 | Cylindrical Tool, 1200 Diamond, 23 mm | \$82 |
| 26.26.08 | Cylindrical Tool, 600 Diamond, 8 mm | \$70. |
| 26.26.13 | Cylindrical Tool, 600 Diamond, 13 mm | \$70 |
| 26.26.15 | Cylindrical Tool, 600 Diamond, 15 mm | \$70 |
| 26.26.17 | Cylindrical Tool, 600 Diamond, 17 mm | \$82 |
| 26.26.23 | Cylindrical Tool, 600 Diamond, 23 mm | \$82 |
| 26.27.08 | Cylindrical Tool, 260 Diamond, 8 mm | \$70. |
| 26.27.13 | Cylindrical Tool, 260 Diamond, 13 mm | \$70 |
| 26.27.15 | Cylindrical Tool, 260 Diamond, 15 mm | \$70 |
| 26.27.17 | Cylindrical Tool, 260 Diamond, 17 mm | \$82 |
| 26.27.23 | Cylindrical Tool, 260 Diamond, 23 mm | \$82 |

NOTE: The above listing shows "standard" Sizes. In-between, "non-standard" Sizes can be ordered, but If you do, a \$30 setup charge is added to your order. There is only a single setup charge however for any special sizes; sizes may be mixed but of the same diamond mesh.

ANGLED SLITTING TOOLS (23 mm OD – fits Ultra Tec Adapter Shaft, min angle 30° max 120°)

Non-diamond surfaces

| | | |
|----------|--|-------|
| 27.07.60 | Angled Slitting Tool, copper, 60° included angle | \$25 |
| 27.07.45 | Angled Slitting Tool, copper, 45° included angle | \$25 |
| 27.5310 | Crystalite Fantasy V Wheel Phenolic | \$14. |
| 27.07.60 | Angled Slitting Tool, phenolic, 60° included angle | \$25 |
| 27.07.45 | Angled Slitting Tool, phenolic, 45° included angle | \$25 |
| 27.05.90 | Crystalite Fantasy Wheel, phenolic, 90° included angle | \$15 |
| 27.07.60 | Angled Slitting Tool, Maple, 60° included angle | \$25 |
| 27.07.45 | Angled Slitting Tool, Maple, 45° included angle | \$25 |

NOTE: The above listing shows “standard” Angles. Alternate angle (between 30° and 120°) can be ordered. If you order one or more alternate angle tools, a \$30 setup charge is added to your order -- it is a single setup charge even if they are mixed angles are ordered - and different materials.

Plated Diamond surfaces -

| | | |
|----------|---|-------|
| 27.4110 | Crystalite Fantasy V Wheel 600 mesh | \$40 |
| 27.24.60 | Angled Slitting Tool, 3000 Diamond, 60° included angle | \$82 |
| 27.24.45 | Angled Slitting Tool, 3000 Diamond, 45° included angle | \$82 |
| 27.25.60 | Angled Slitting Tool, 1200 Diamond, 60° included angle | \$82 |
| 27.25.45 | Angled Slitting Tool, 1200 Diamond, 45° included angle | \$82 |
| 27.26.60 | Angled Slitting Tool, 600 Diamond, 60° included angle | \$82 |
| 27.26.45 | Angled Slitting Tool, 600 Diamond, 45° included angle | \$82 |
| 27.26.90 | Crystalite Fantasy Wheel, 600 Diamond, 45° included angle | \$40. |
| 27.27.60 | Angled Slitting Tool, 260 Diamond, 60° included angle | \$82 |
| 27.27.45 | Angled Slitting Tool, 260 Diamond, 45° included angle | \$82 |

NOTE: The above listing shows “standard” Angles. Alternate angle (between 30° and 120°) can be ordered. If you order one or more alternate angle tools, a \$30 setup charge is added to your order -- it is a single setup charge even if they are mixed angles are ordered - but they must be of the same diamond mesh. Each different diamond mesh will incur a setup charge.

BALL END TOOLS (Min diameter, 10 mm, max 23 mm)

Non-diamond surfaces

| | | |
|----------|----------------------------------|------|
| 28.07.11 | Ball End Tool, copper, 11 mm D | \$25 |
| 28.07.15 | Ball End Tool, copper, 15 mm D | \$25 |
| 28.07.23 | Ball End Tool, copper, 23 mm D | \$25 |
| 28.05.11 | Ball End Tool, phenolic, 11 mm D | \$25 |
| 28.05.15 | Ball End Tool, phenolic, 15 mm D | \$25 |
| 28.05.23 | Ball End Tool, phenolic, 23 mm D | \$25 |
| 28.08.11 | Ball End Tool, Maple, 11 mm D | \$25 |
| 28.08.15 | Ball End Tool, Maple, 15 mm D | \$25 |
| 28.08.23 | Ball End Tool, Maple, 23 mm D | \$25 |

NOTE: The above listing shows "standard" Sizes. Any "non-standard" Sizes can be ordered, but If you do, a \$30 setup charge is added to your order (So, the price of a single in-between sized tool is, in effect, \$55). There is only a single setup charge however for any number or mix of non-standard Sizes or Materials ordered at the same time.

Plated Diamond surfaces -

| | | |
|----------|--------------------------------------|------|
| 28.24.11 | Ball End Tool, 3000 Diamond, 11 mm D | \$70 |
| 28.24.15 | Ball End Tool, 3000 Diamond, 15 mm D | \$70 |
| 28.24.23 | Ball End Tool, 3000 Diamond, 23 mm D | \$82 |
| 28.25.11 | Ball End Tool, 1200 Diamond, 11 mm D | \$70 |
| 28.25.15 | Ball End Tool, 1200 Diamond, 15 mm D | \$70 |
| 28.25.23 | Ball End Tool, 1200 Diamond, 23 mm D | \$82 |
| 28.26.11 | Ball End Tool, 600 Diamond, 11 mm D | \$70 |
| 28.26.15 | Ball End Tool, 600 Diamond, 15 mm D | \$70 |
| 28.26.23 | Ball End Tool, 600 Diamond, 23 mm D | \$82 |
| 28.27.11 | Ball End Tool, 260 Diamond, 11 mm D | \$70 |
| 28.27.15 | Ball End Tool, 260 Diamond, 15 mm D | \$70 |
| 28.27.23 | Ball End Tool, 260 Diamond, 23 mm D | \$82 |

NOTE: Listed above are "standard" ball diameters. Any alternate ball diameter in 1 mm increments (between 11 mm and 23 mm) can be ordered. If you order one or more alternate diameter, a \$30 setup charge is added to your order. Multiple alternate diameters may be ordered, and even if they involve several different Materials, there is a single setup charge.

Accessories

FANTASY / CONCAVE SPECIAL PURPOSE ACCESSORIES

| | | |
|---------|--|---------|
| 1901.85 | HD 1° Theta Position Mod (F) | \$ 228 |
| 1407.83 | Spindle Rocker-Rotator, motorized (F) | \$ 355 |
| 4825.1 | DH Lateral Stop Arm | \$ 268 |
| 4801.1 | Collet Kit for Fantasy/Concave (Holder+Collets 1 thru 10 mm) | \$ 219 |
| 1607.85 | Ultra Tec Mast V2R Analog (when purchased for Fantasy or Concave) | \$2,480 |
| 1607.35 | Ultra Tec Mast V2D Digital (when purchased for Fantasy or Concave) | \$2,880 |

CONCAVE MACHINE CONVERSION TO FANTASY MACHINE

The Concave Machine can be converted to include all features of the Ultra Tec Fantasy Machine. Doing this requires return to the factory.

| | | |
|----------|---|----------|
| XXXX.XXX | Concave Machine conversion to Fantasy Machine | \$1,600. |
|----------|---|----------|

FANTASY / CONCAVE SPARES AND SUPPLIES

| | | |
|----------|--|------|
| 2668.375 | Tool Bushing, accepts 3/8 D. tool shaft * | \$52 |
| 2668.250 | Tool Bushing, accepts 1/4 D. tool shaft * | \$52 |
| 2668.125 | Tool Bushing, accepts 1/8 D. tool shaft * | \$52 |
| 2668.094 | Tool Bushing, accepts 3/32 D. tool shaft * | \$52 |
| 2672.75 | Adapter for Ultra Tec Slitting Tools * | \$56 |



ULTRA TEC, Santa Ana, CA 92701 USA
Tel: +1 714 542 0608 e-mail: info@ultratec-facet.com
www.ultratec-facet.com