



# 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:

<b>Cylindrical</b>	<b>26</b>
<b>Angled Slitting</b>	<b>27</b>
<b>Ball</b>	<b>28</b>

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

<b>Phenolic</b>	<b>05</b>
<b>Copper</b>	<b>07</b>
<b>Maple.</b>	<b>08</b>
<b>Diamond 3000 mesh</b>	<b>24</b>
<b>Diamond 1200 mesh</b>	<b>25</b>
<b>Diamond 600 mesh</b>	<b>26</b>
<b>Diamond 260 mesh</b>	<b>27</b>

- 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>
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### 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

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### **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.
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### **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



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