

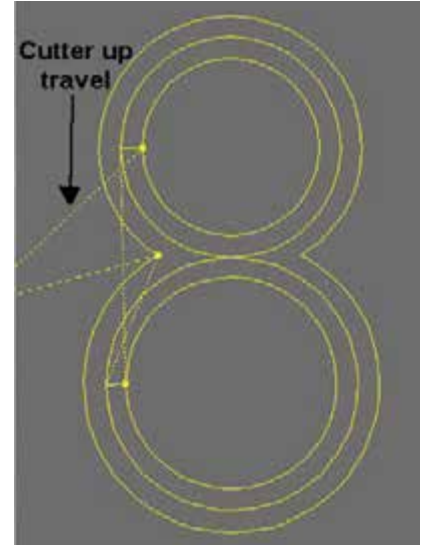
## Font types are critical to engraving quality and time

There are 2 main types of fonts for engraving: TrueType (print fonts), and pre-engineered engraving fonts.

TrueType fonts are outline fonts. They can be filled for a solid, bold look. Filling requires the engraving program to calculate the tool paths.

Engraving fonts are pre-engineered fonts with optimized tool paths, designed for reducing engraving time and optimizing engraving quality. Engraving fonts are optimized with reduced tool lifts, tool paths start from the inside of a contour - so you don't lose the leading edge of a filled contour which causes "dimpling". Tool path direction is predetermined for high quality engraving. The engraving path order is optimized as a time saving measure. Use single-line fonts to increase production speed.

When selecting cutters, please use the B chart shown on page 104 as a guideline for choosing the appropriate sized tip for engraving.



### 1/4" (6.35 mm) SHANK SIZE

Compatible with 1/4" Collet spindles and Vanguard series machines.



#### 1/4" Burnishing cutters for coated and polished metals

Trophy Brass, Coloured and Marbled Steel, Gravoxal and Gravometal

**Maximum depth .002**  
(use light pressure setting for best results)

Cutting width	Part no.
.010	34207
.015	34208
.020	34209
.040	34212
.060	34213
.090	34214



#### 1/4" Carbide cutters for plastic

GPLY I & II, Ultra, Gravolase, Metallex & Metallex 2

Cutting width	Part no.
.005	34184
.010	34185
.015	34186
.020	34187
.030	34189
.040	34190
.060	34191
.090	34192
.125	34193
.171	34194
.250	34196



#### 1/4" Carbide cutters for Gravostat and Gravoply 2-Plex

Cutting width	Part no.
.005	34158
.010	34159
.015	34160
.020	34161
.030	34162
.040	34163
.060	34164
.090	34165
.171	34167
.250	34169



#### 1/4" Carbide cutters for Acrylic

All Gravoglas and Acrylic  
35 ° cutting angle for deep engraving

Cutting width	Part no.
.010	34273
.015	34274
.020	34275
.030	34276
.040	34277
.060	34278
.090	34279



#### 1/4" Radius cutters for rounded cut

Use reverse engraving on Gravoglas for neon tube look. Also used for gasket grooves & 3D milling

Material Type	Part no.
Gravoply	34259
Phenolic	33999
Ferrous metals	34010

Choose radius (1/32", 1/16", 3/32", 1/8", 5/32")