



ENGRAVERS

E1 - E4

MICRO ENGRAVING TOOLS E2

SERIES EGR 2 Flute 30° - 90° Angles E2

MICRO HALF ROUND ENGRAVING TOOLS E3

SERIES HR 1 Flute 0.005" - 0.0315" Line Widths E3

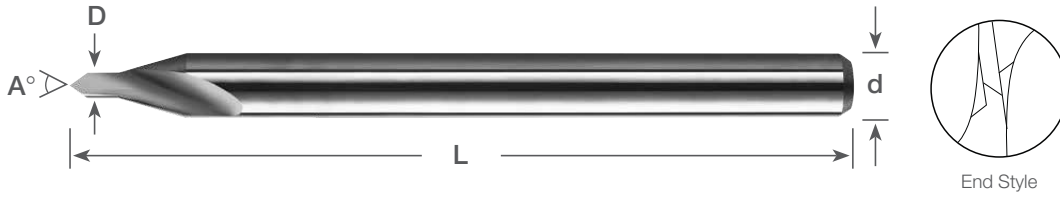
MICRO SPADE TOOLS E4

SERIES SPD 2 Flute 30° - 118° Angles E4

2 FLUTE

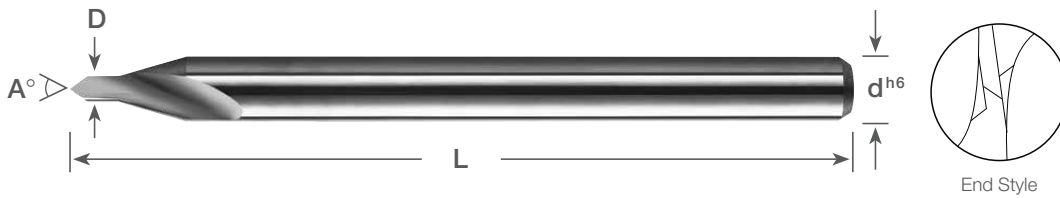
MICRO ENGRAVING TOOLS FOR GENERAL PURPOSE ENGRAVING

30° - 90° ANGLES
 Complete Diameter Selection
 Mirror Surface Finishes
 Sub Micron Grain Carbide



1/8" Shank

A° $\begin{smallmatrix} +1^\circ \\ -1^\circ \end{smallmatrix}$	Dimensions (in)			Uncoated	
	D	d	L	Part Number	Stock
30°	0.050	1/8	1 1/2	EGR1250-030	●
60°	0.050	1/8	1 1/2	EGR1250-060	●
90°	0.050	1/8	1 1/2	EGR1250-090	●



3.00mm Shank

A° $\begin{smallmatrix} +1^\circ \\ -1^\circ \end{smallmatrix}$	Dimensions (mm)			Uncoated	
	D	d ^{h6}	L	Part Number	Stock
30°	1.27	3	38	EGR1181-030	●
60°	1.27	3	38	EGR1181-060	●
90°	1.27	3	38	EGR1181-090	●

SERIES EGR WORKPIECE MATERIAL

Coating	P Steel ~30HRC	P Steel 30-40HRC	H Hardened Steel ~55HRC	H Hardened Steel ~68HRC	M Stainless Steel	K Cast Iron	N Aluminum	N Graphite	N Copper Alloy	N CFRP	N Plastic	N Thermoset Plastic	N High Density Plastic	S Nickel / Cobalt	S Titanium Alloy
Uncoated	★	★	☆	☆	☆		☆	☆	☆	☆				☆	☆

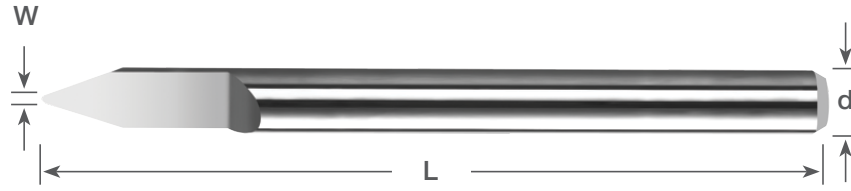
★ : Priority ☆ : Applicable Materials

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HALF ROUND

MICRO ENGRAVING TOOLS FOR
GENERAL PURPOSE ENGRAVING

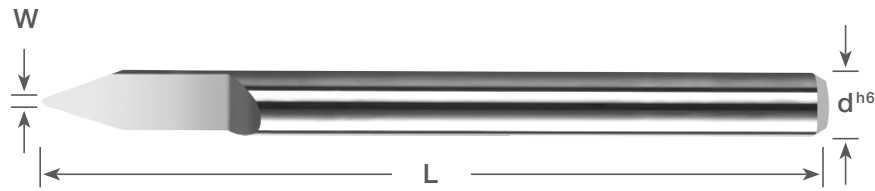
0.0050" - 0.0315" LINE WIDTHS
0.25mm - 0.80mm LINE WIDTHS
Complete Diameter Selection
Mirror Surface Finishes
Sub Micron Grain Carbide



1/8" Shank



Letter Height	Dimensions (in)			Uncoated	
	W ^{+0.0004"} _{-0.0004"}	d	L	Part Number	Stock
1/16	0.005	1/8	1 1/2	HR125SSS005A	●
3/32	0.010	1/8	1 1/2	HR125SSS010A	●
1/8	0.015	1/8	1 1/2	HR125SSS015A	●
3/16	0.020	1/8	1 1/2	HR125SSS020A	●
7/32	0.025	1/8	1 1/2	HR125SSS025A	●



3.00mm Shank



Letter Height	Dimensions (mm)			Uncoated	
	W ^{+0.010mm} _{-0.010mm}	d ^{h6}	L	Part Number	Stock
2.40	0.25	3	38	HR118SSS025A	●
2.75	0.30	3	38	HR118SSS030A	●
3.10	0.35	3	38	HR118SSS035A	●
3.45	0.40	3	38	HR118SSS040A	●
3.80	0.45	3	38	HR118SSS045A	●
4.75	0.50	3	38	HR118SSS050A	●
5.50	0.60	3	38	HR118SSS060A	●
6.25	0.70	3	38	HR118SSS070A	●
7.00	0.80	3	38	HR118SSS080A	●

SERIES HR WORKPIECE MATERIAL															
Coating	P	P	H	H	M	K	N	N	N	N	N	N	S	S	
	Steel ~30HRC	Steel 30-40HRC	Hardened Steel ~55HRC	Hardened Steel ~68HRC	Stainless Steel	Cast Iron	Aluminum	Graphite	Copper Alloy	CFRP	Plastic	Thermoset Plastic	High Density Plastic	Nickel / Cobalt	Titanium Alloy
Uncoated	★	★	☆	☆	☆		☆	☆	☆	☆				☆	☆

★ : Priority ☆ : Applicable Materials

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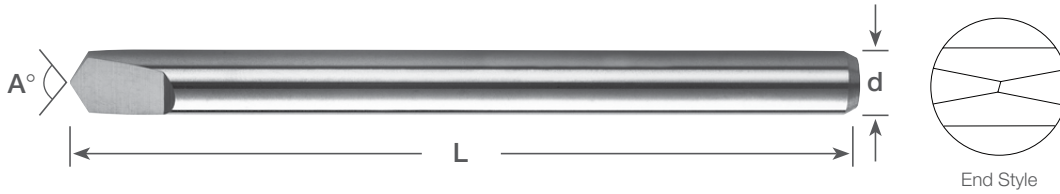
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- : NOT STOCKED - Call for Delivery
- ▲ : Coming Soon

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SPADE

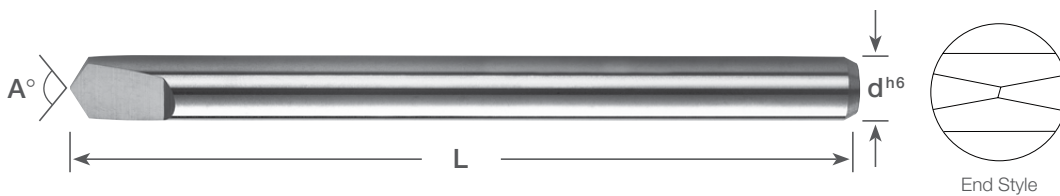
MICRO ENGRAVING TOOLS FOR SPOTTING OR CHAMFERING

30° - 118° ANGLES
Mirror Surface Finishes
Sub Micron Grain Carbide



1/8" Shank

A° ^{+1°} / _{-1°}	Dimensions (in)		Uncoated	
	d	L	Part Number	Stock
30°	1/8	1 1/2	SPD1250-030	●
45°	1/8	1 1/2	SPD1250-045	●
60°	1/8	1 1/2	SPD1250-060	●
90°	1/8	1 1/2	SPD1250-090	●
118°	1/8	1 1/2	SPD1250-118	●



3.00mm Shank

A° ^{+1°} / _{-1°}	Dimensions (mm)		Uncoated	
	d ^{h6}	L	Part Number	Stock
30°	3	38	SPD1181-030	●
45°	3	38	SPD1181-045	●
60°	3	38	SPD1181-060	●
90°	3	38	SPD1181-090	●
118°	3	38	SPD1181-118	●

SERIES SPD WORKPIECE MATERIAL

Coating	P Steel ~30HRC	P Steel 30-40HRC	H Hardened Steel ~55HRC	H Hardened Steel ~68HRC	M Stainless Steel	K Cast Iron	N Aluminum	N Graphite	N Copper Alloy	N CFRP	N Plastic	N Thermoset Plastic	N High Density Plastic	S Nickel / Cobalt	S Titanium Alloy
Uncoated	★	★	☆	☆	☆		☆	☆	☆	☆				☆	☆

★ : Priority ☆ : Applicable Materials

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