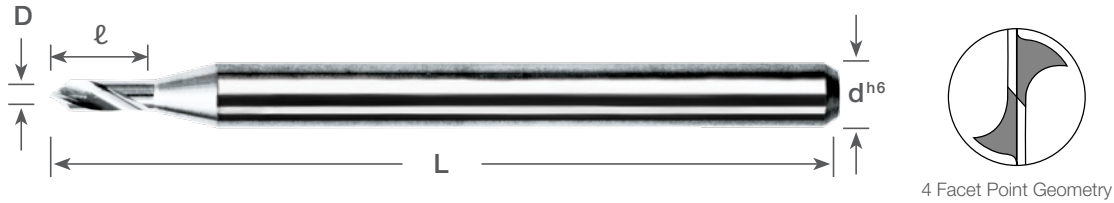


# 3.00mm SHANK

MICRO SPOTTING DRILLS

0.15mm - 3.00mm DIAMETER

Mirror Surface Finishes  
Sub Micron Grain Carbide



## 90° Included Point Angle



Symbol Descriptions [Page 7](#)

Dimensions (mm)				Uncoated		AlTiN Coating	
D	d <sup>h6</sup>	ℓ	L	Part Number	Stock	Part Number	Stock
+0.000mm -0.008mm							
0.15	3	0.65	38	081-0059.90	●	081-0059L90	●
0.25	3	0.90	38	081-0098.90	●	081-0098L90	●
0.40	3	1.15	38	081-0157.90	●	081-0157L90	●
0.50	3	1.30	38	081-0197.90	●	081-0197L90	●
1.00	3	2.30	38	081-0394.90	●	081-0394L90	●
1.50	3	5.00	38	081-0591.90	●	081-0591L90	●
2.00	3	5.00	38	081-0787.90	●	081-0787L90	●
3.00	3	5.00	38	081-1181.90	●	081-1181L90	●

## 130° Included Point Angle



Symbol Descriptions [Page 7](#)

Dimensions (mm)				Uncoated		AlTiN Coating	
D	d <sup>h6</sup>	ℓ	L	Part Number	Stock	Part Number	Stock
+0.000mm -0.008mm							
0.15	3	0.65	38	081-0059.130	●	081-0059L130	●
0.25	3	0.90	38	081-0098.130	●	081-0098L130	●
0.40	3	1.15	38	081-0157.130	●	081-0157L130	●
0.50	3	1.30	38	081-0197.130	●	081-0197L130	●
1.00	3	2.30	38	081-0394.130	●	081-0394L130	●
1.50	3	5.00	38	081-0591.130	●	081-0591L130	●
2.00	3	5.00	38	081-0787.130	●	081-0787L130	●
3.00	3	5.00	38	081-1181.130	●	081-1181L130	●

SERIES 081 WORKPIECE MATERIAL															
Coating	P	P	H	H	M	K	N	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
AlTiN	★	★	★	★	★	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Uncoated							☆	☆	☆	☆	☆	☆	☆		☆

★ : Priority ☆ : Applicable Materials

Symbol Descriptions [Page 7](#)

● : U.S. Stock Standard  
■ : NOT STOCKED - Call for Delivery

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