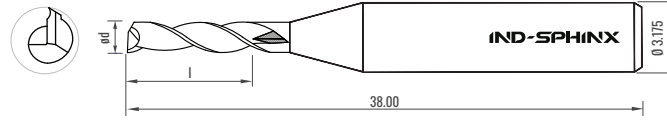




- IMS PCB Ceramic Layer
- FR4 Normal Tg
- FR4 High Tg >170
- FR4 Ceramic Fillers
- Halogen Free Laminates



**APPLICATION**

Routing of inner and outer contours of IMS PCB's e.g Aluminium, Copper.

ød DIAMETER	I FLUTE LENGTH		mm
0.80	2.00	-	
1.00	3.00	5.00	
1.20	3.00	-	
1.40	3.00	-	
1.60	4.00	5.00	
1.80	4.00	-	
2.00	4.00 *	6.00	
2.40	6.00	-	
3.00	6.00	-	

On request Inch / Special dimensions / Shank 3.00mm

\* : Non stock items / Articles

**FEATURES & BENEFITS**

- High hardness ~ 10000 HV
- Extreme wear resistance
- High heat conductance
- Reduce friction - smooth chip flow
- High dimensional accuracy- improved process capability

RECOMMENDED PARAMETERS FOR ROUTING ALUMINIUM IMS PCB						
ød	N	f	F x-y	Fz (Pre Drilled)	Routing Depth	Depth in to Backup
mm	RPM	µm/rev	m/min	m/min	m/min	
0.80	83000	3.0	0.25	0.8	0.80	0.3
1.00	66000	5.0	0.30	0.8	1.00	0.4
1.20	55000	9.0	0.50	0.8	1.20	0.4
1.40	44000	14.0	0.60	1.0	1.50	0.4
1.60	42000	7.0	0.30	1.0	1.60	0.4
1.80	37000	11.0	0.40	1.0	1.80	0.4
2.00	33000	15.0	0.50	1.0	2.00	0.5
2.40	28000	18.0	0.50	1.0	2.40	0.5
3.00	22000	22.0	0.50	1.0	3.00	0.5
ød Tool Diameter	N Spindle Speed	f Chip Load	F x-y Table Feed	F z Z-Feed Rate		

Tabulated parameters provide guidelines which acts as starting points for optimising speeds and feeds at the user's end.

**REMARKS**

- For Copper IMS PCB reduce RPM by ~ 15% and reduce feed rate by ~ 25%.
- Reduce feed rate 25% in case of depth routing.
- Use entry material ≥ 0.80mm thickness.
- Recommended to use MQL with coolants like Ethanol or oil emulsion for improved performance and dimensional control.
- Control collet runout and vibration.

**PACKING**

Single tool per pack  
10 tools per pack  
50 tools per pack



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