

# AXIS<sup>®</sup>

Tools for Green Stage Ceramic

Tools for mICRO mACHINING



**HIGH PRECISION  
CUSTOMISED TOOLS FOR  
GREEN STAGE CERAMIC MACHINING**



**Long Life  
Customized Solutions  
Consistent Performance  
Greater Process Efficiency**

**Also Available  CVD Diamond Coated**






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AXIS introduces wide range of high precision tools with designs optimized for Green Stage Ceramic Machining.

Long standing experience in high Precision tool manufacturers coupled with in-depth application experience, enables us to offer tools to obtain close machining tolerances, improved surface quality and reduced rejections of advanced ceramics.

### STANDARD TOOL RANGE

				
Endmills with Corner Radius	Square Flute Endmills	Ball Ended Drills	Coolant Hole Drills	Drills With Long Flute
0.20 - 20.00	0.050 - 20.00	Starting From Ø0.20	0.80 - 20.00	Starting From 0.10 <b>L/D ≤ 100</b>

### TOOLS FOR CUSTOMER DRAWINGS

				
Ball Endmills	Taper Drills	Drills with special angle	Step Drills	Combination Drills
Special Ball Forms	Different Angles	Acute angles 60°/90°	Custom built	Front Helical + Step flat
0.10 - 20.00	0.20 - 20.00	0.10 - 20.00	0.10 - 10.00	0.10 - 20.00

### PRODUCT RANGE

#### Drills

Micro Drills ≥0.020mm (20μ)  
**XXL** Micro Drills  
 Ball Ended Drills  
 Coolant Hole Drills  
 Drill with Long Flute ≤ L/D 100  
 Multi Step Drills

#### Endmills

Square Endmills  
 Ballnose Endmills  
 Corner Radius Endmills  
 Multi Step Endmills  
 Taper Endmills

#### Long Approach / XXL

Square Endmills with long Approach  
 Ballnose Endmills with Long Approach  
 Corner radius Endmills with Long Approach

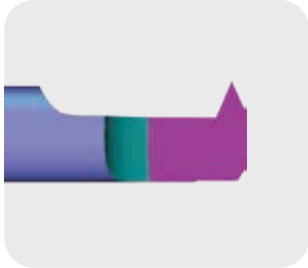
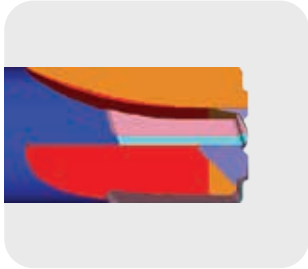
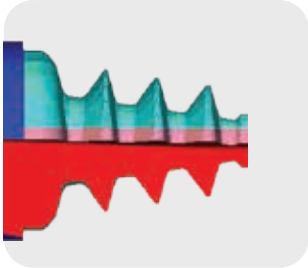
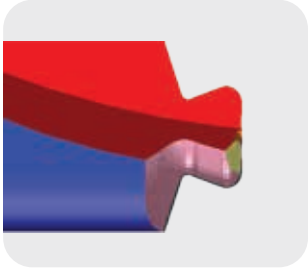
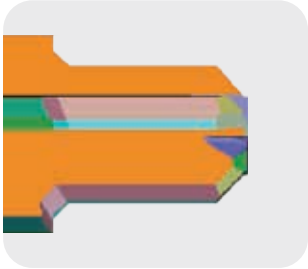
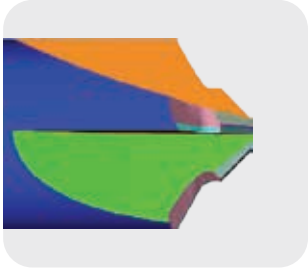
\*All dimensions are in mm

Available Coatings



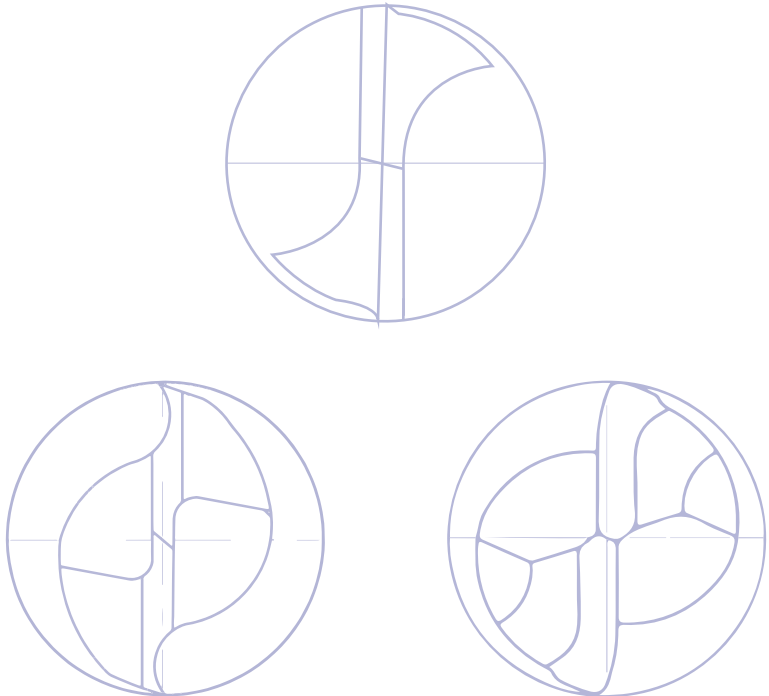
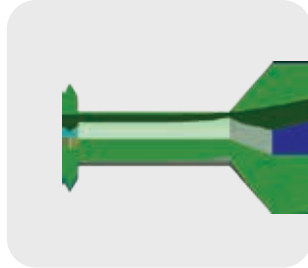
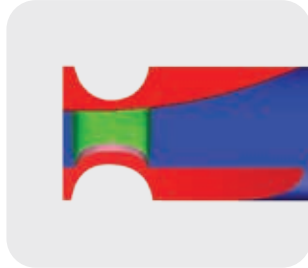
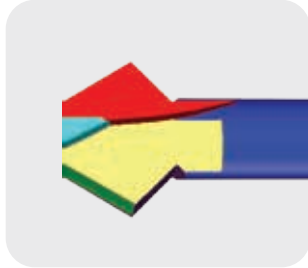
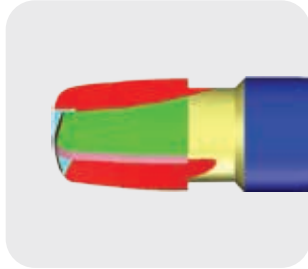
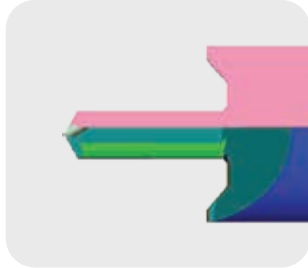
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**Materials to Machine Green Stage**

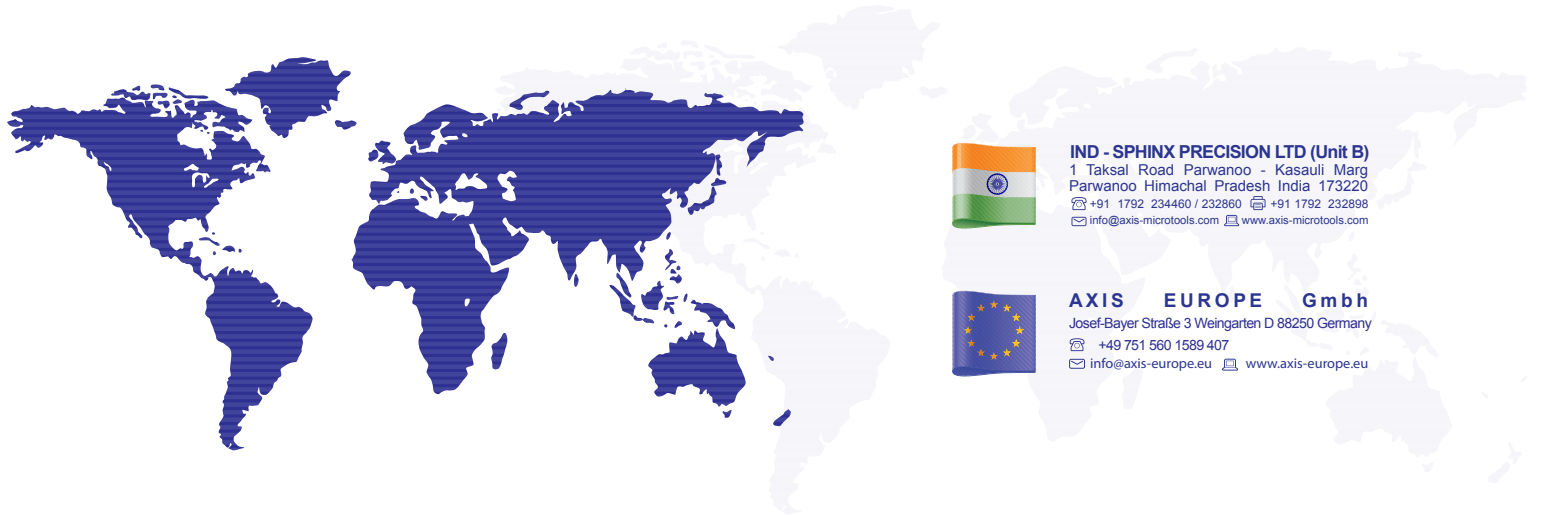
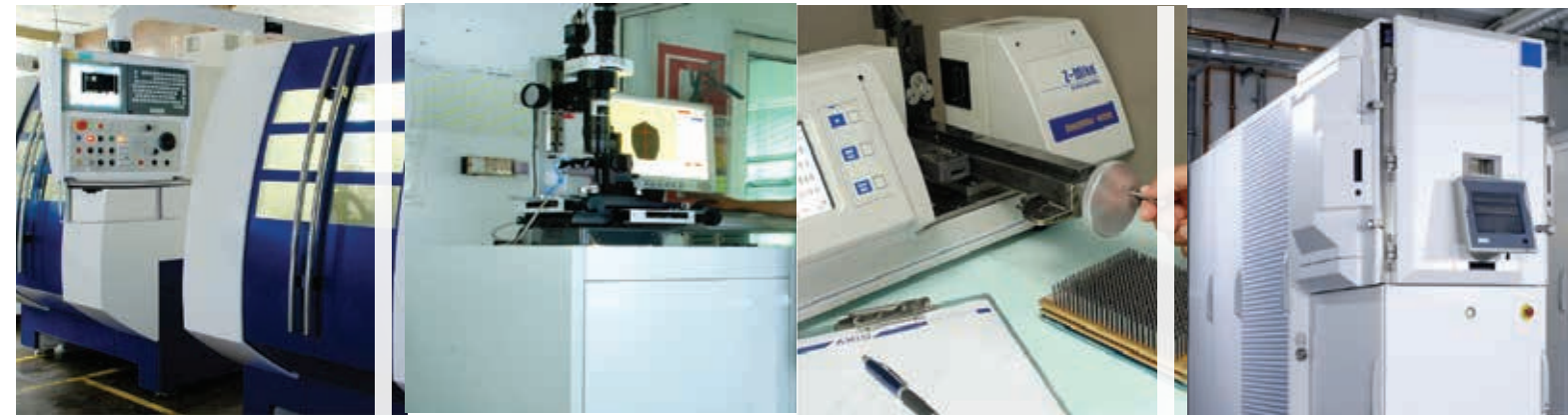
- Tungsten Carbide
- Ceramic
- Zirconia
- Graphite
- Alumina
- MACOR<sup>®</sup>



**Features**

- Long Tool Life
- Consistent Performance
- Customized Solutions
- Greater Process Efficiency

**Customised Tools**



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