

NexGen High Precision Tools Jewellery Machining



High Precision **m**ICRO Tools
for
High-End Machined Jewellery

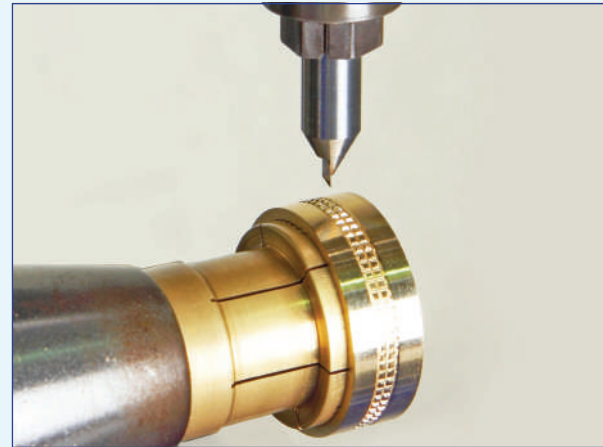
Jewellery Making : An Artistic and Technological Symphony

The Jewellery Making is a realm where precision meets artistry, and every intricate detail contributes to the creation of timeless masterpieces. At the core of this craft are mICRO tools, meticulously engineered to handle the unparalleled delicacy required in this field.

In a domain where precision is not just a desire but an uncompromisable necessity, mICRO Tools play a pivotal role. From intricate designs and detailed engravings to the fine assembly of components, these specialized Tools empower Jewellery artisans to shape even the tiniest elements with unmatched finesse and accuracy.

This perfect synergy of traditional craftsmanship and cutting-edge technology elevates Jewellery-Making into an art form of the highest caliber. mICRO Tools ensure the flawless appearance, enduring quality, and elegance of each piece, allowing every creation to transcend time and trends, shining brilliantly for generations to come.

Far beyond being tools, mICRO Tools are the backbone of innovation and excellence in the Jewellery-Making. They enable artisans to explore new creative horizons, ensuring every masterpiece embodies a perfect blend of precision, passion, and sophisticated perfection.



High Precision mICRO Tools for High-End Machined Jewellery

AXIS has mastered the art of designing and manufacturing High-Precision mICRO Tools tailored for CNC machining in the luxury and high-End Jewellery market. With decades of experience, we have developed a deep understanding of the industry's diverse machining needs. From soft wax to challenging metals like Titanium, Platinum and Gold. Our Tools deliver unmatched precision, consistent performance and exceptional accuracy for intricate Jewellery designs.



Tool Features & Benefits

F	Optimized Geomtery	Better Chip Evacuation	Ultra-fine Carbide Grade	Optimized Coating	Polished Surface Finish
B	Enhanced Precision and Quality of Cuts	Improved Tool Performance and Prevents Clogging	Increased Tool Life and Reduced Downtime	Lowered Friction, Boosting Tool Efficiency	Achieves a Smooth, High-Quality Aesthetic Finish

Jewellery Applications

Titanium



Platinum



Gold



Silver



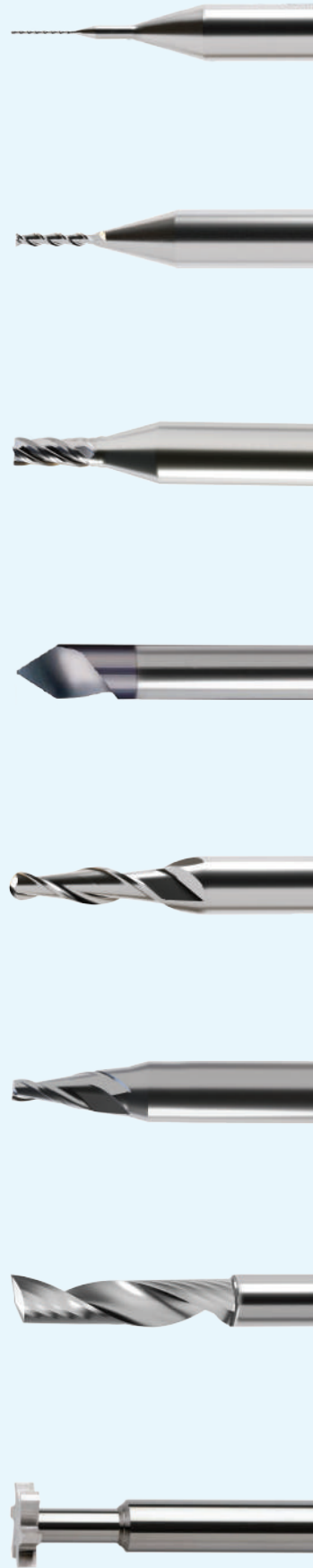
Diamond Setting





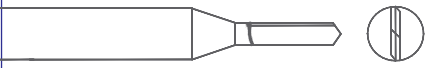
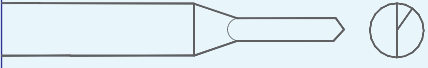
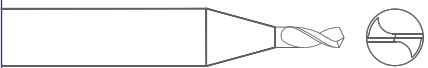
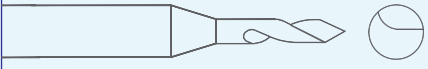

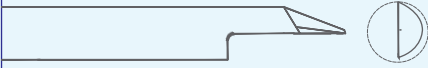

Wax Milling






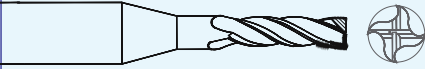
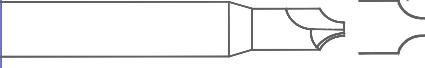

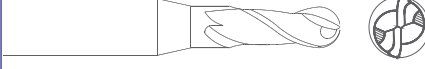
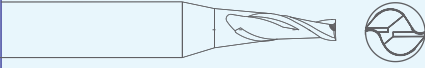
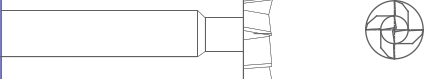
Engineering Perfection for Your Precious Pieces



Portfolio at a Glance

Article	Tool Drawing	Series / Dia Range (mm)	Shank Dia	Overall Length
T301 T302 T303		INDrill ø0.015 - 3.00	3.00	38.00
T698		mICRO Drill ø0.050 - 1.50	1.00 / 1.50	25.00
T200		Spade Drill ø0.10 - 6.00	3.00	38.00
T980		Halfmoon Drill ø0.50 - 5.99	3.00	38.00
T580		NC Pointing Drill ø0.050 - 12.00	3.00	38.00
G845		Helical Engraver ø2.00 / 2.40 / 3.00	3.00	38.00
G801		Spyra Mill ø0.10 - 2.00	3.00	38.00
G847		Engraver ø0.030 - 1.00	3.00	38.00
E923		Single Flute End Mill ø0.10 - 12.00	3.00	38.00

Portfolio at a Glance

Article	Tool Drawing	Series / Dia Range (mm)	Shank Dia	Overall Length
E207		3 Flute Square End Mill ø0.30 - 3.00	3.00	38.00
E208		3 Flute Square End Mill with Corner Chamfer ø0.30 - 3.00	3.00	38.00
E966		2 Flute Square End Mill ø0.050 - 6.00	3.00 / 6.00	38.00
E967		4 Flute Square End Mill ø0.20 - 6.00	3.00 / 6.00	38.00
E961		Inner Radius Cutter ø0.80 - 12.10	12.00	65.00
E965		2 Flute Conical End Mill ø0.30 - 3.00	3.00	38.00
B970		2 Flute Ballnose End Mill ø0.20 - 6.00	3.00 / 6.00	38.00
E950		2 Flute Tapered End Mill ø0.20 - 12.00	4.00 / 6.00	45.00
F401 F402 F404		T-Slot Cutter ø1.50 - 3.00	3.00	38.00

Key Differentiators



State-of-the-Art Machines

Cutting-edge technology for superior product and performance



High Precision CNC Grinders

Ensures exacting precision in every tool



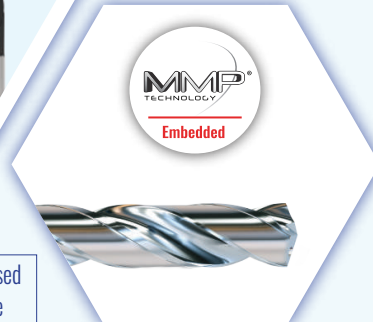
High-End Inspection and Quality Systems

Rigorous testing for flawless quality control



NexGen Coatings

Advanced coatings for increased durability and performance



Super Precision Surface finishing

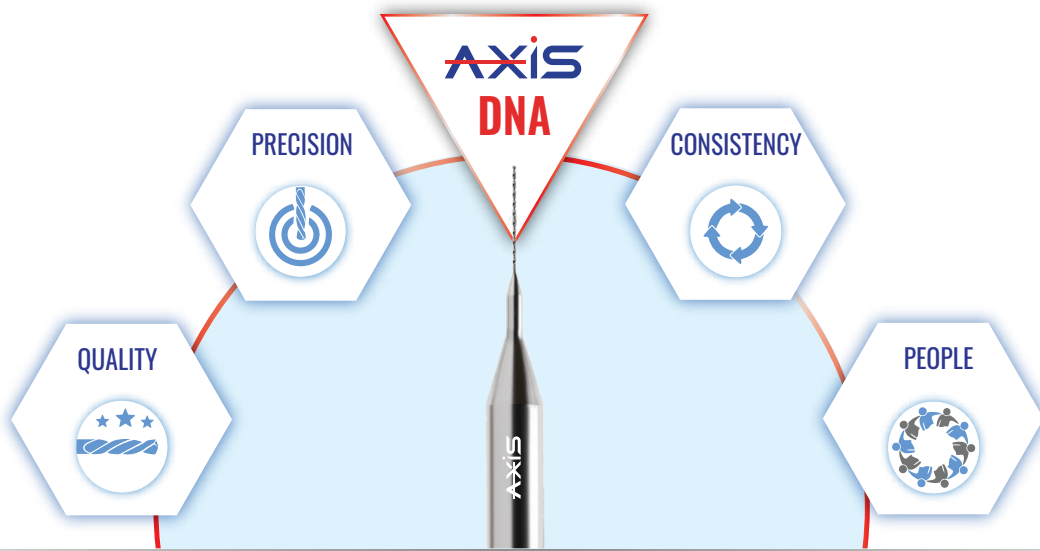
Achieves exceptional surface quality for optimal results



AXIS

Long-Standing Experience in mICRO Tools





NexGen Coatings

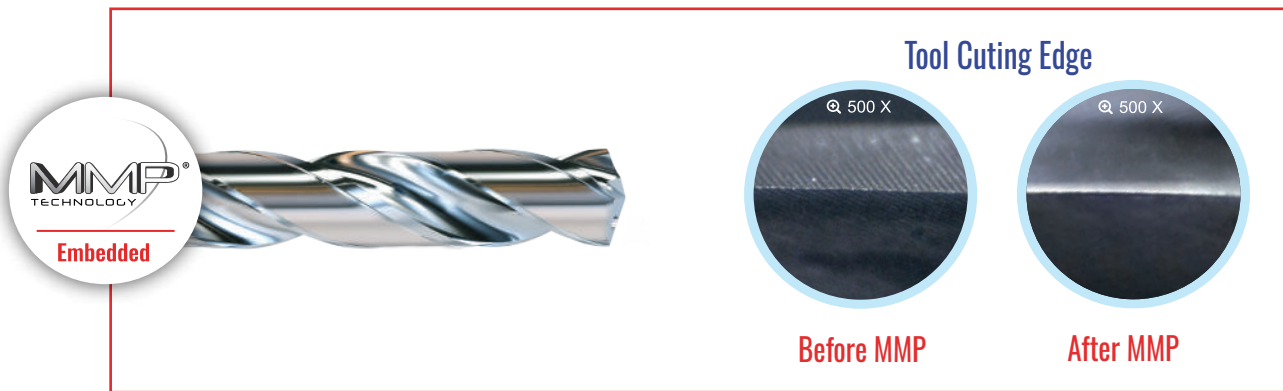
As markets, applications, and materials evolve, the demand for precision machining tools continues to grow. Our in-house NexGen Coatings (CVD and PVD) facility enables us to provide high-performance tools specifically designed for emerging applications.

With advanced preparation and post-coating processes, we ensure that every tool is primed for optimal coating productivity and exceptional part finishes. Coupled with our proprietary engineered miCRO geometries, our tools stand out, delivering unmatched precision and performance—setting a new standard in the industry.



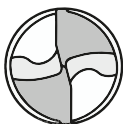
NexGen Cutting Tools with MMP Superfinishing

Stabilised cutting edges ensure higher Tool life and MRR with improved workpiece finishes



Our NexGen Cutting Tools combined with MMP Superfinishing technology offer superior performance by stabilizing cutting edges for enhanced durability. This results in increased tool life, higher Material Removal Rate (MRR), and exceptional workpiece finishes. The advanced finishing process reduces surface roughness and ensures a smoother, more accurate cutting action, making these tools ideal for precision machining across demanding applications.

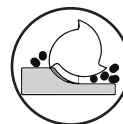
Technical Benefits



Increased cutting edge strength



Increased operating parameters—cutting speed and feed rate



Reduced cutting forces



Enhanced tool life

NexGen High Precision Tools Jewellery Machining



AXIS
Tools for mICRO mACHINING



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