



www.kydiamond.ca
Ultra precision Diamond Tools Manufacturer

OUR UNMATCHED CAPABILITIES, YOUR ADVANTAGE

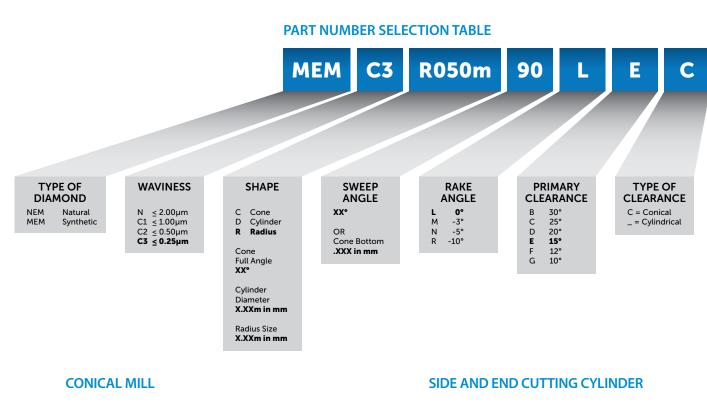
Single crystal diamond endmills used in conjunction with ultraprecision CNC machines are used to manufacture small-scale, high aspect ratio optical elements or mold inserts. These tools can be used for non-ferrous metals, alloys, plastics and crystals.

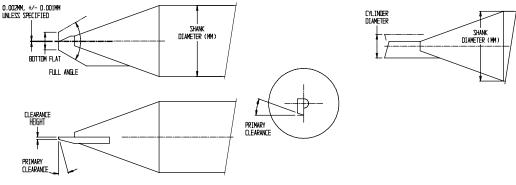
Metals/Alloys: Cu, NiP (>10% P), Al, CuZn (Brass), CuSn(Bronze), CuNi, Sn, Moldmax®

Plastics: Acrylic, Zeonex/Zeonor, Polystyrene, Polycarbonate, Isoplast, Topas, Suncolor, Ultem

Crystals: Si, Ge, ZnS, ZnSe, CaF, InSb, GaAs, LiNb

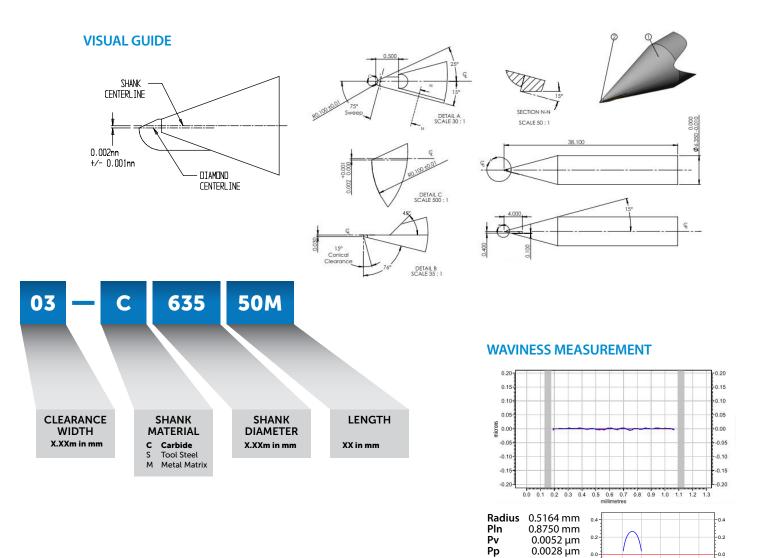
K&Y Diamond uses ultra-precision CNC machines for shaping the highest accuracy cutting edges on diamond. This also enables a multitude of high accuracy shapes including spherical ball, ellipse, toroid, cone (sharp point or flat bottom), cylinder or custom facet. Multi-radii cutting edges are now also possible.



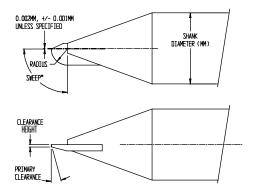


PRECISELY THE TOOL YOU NEED

K&Y Diamond's state of the art manufacturing, metrology and assembly techniques provide unique capabilities for shaping diamond into complex shapes with unsurpassed placement accuracy.



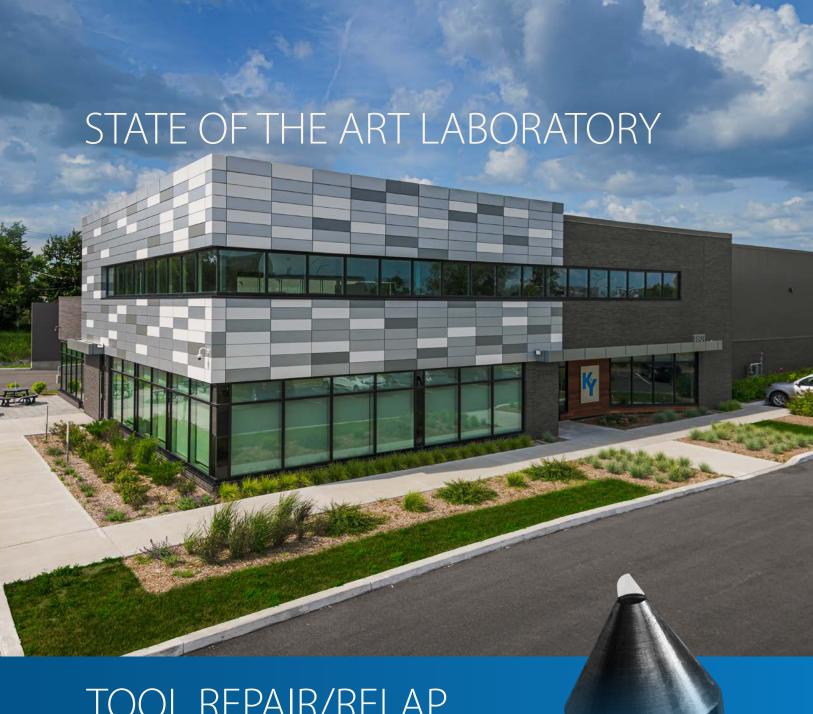
BALL RADIUS MILL



FEATURE	K&Y CAPABILITY
End Mill Radius	0.025mm to 2.0mm
Waviness	<10nm P/V over 90°
Diamond alignment	±0.001mm from cylindrical shank centerline
Cutting profile	Spherical ball, ellipse, cone, cylinder, Multi-radius
Sweep angle	20° - 90°
Shank Diameter	3mm - 12mm
Shank Material	Tool Steel, Carbide

--0.2

Tolerance 0.0079 μm



TOOL REPAIR/RELAP

F.: 514 676 0645

We are aware of the importance of getting your tools back from repair as soon as possible, and our experienced and dedicated team ensures that the process is flawless and quick. When your repaired tools are shipped back to you, they will perform as new.

We are grateful for all of our loyal customers and look forward to meeting your needs and expectations as we continue redefining the edge!

K&Y Diamond

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USA Customers, please send all tools for repair to:

NFI Industries

c/o K&Y Diamond Ltd. 2002 Ridge Road Champlain, NY, USA 12919