

Fixture System to Manufacture Diamond Band Saw Blades

For diamond electro-plating of one band saw blade at a time, with straight or toothed edge.

The holding and contact fixture (contact fixture) guarantees a uniform electro-plating of the cutting edge by means of the supplied square-section silicone cord.

Masking of the band saw blade is not required.

The arrangement of the band saw blade is compact and space-saving.

The fixture is used for the required pre-treatment and the subsequent diamond electro-plating process without a need to remove the band saw blade.

The fixture system is designed so that only the surface areas to be electro-plated come into contact with the process baths.

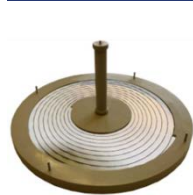
Fixture components



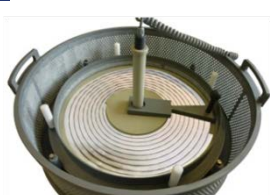
Examples of diamond saw blades

1. Locking bolts (4 pcs)
2. Shielding disc
3. Titanium anode basket (2 pcs)
4. Diamond retaining ring / spacer
5. Contact cable
6. Rake to equalise diamond grits
7. Contact and holding fixture for saw blade including contact adapter
8. Electro-plating cassette

Fixture assembly



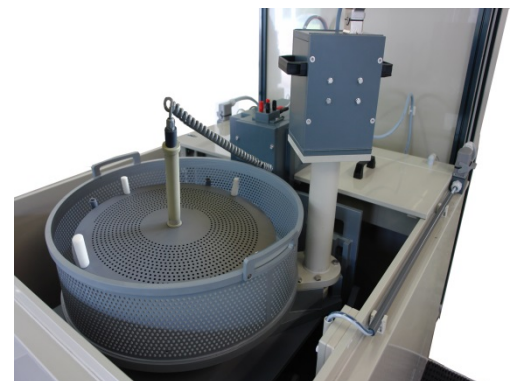
Saw blade mounted into contact fixture with square-section silicone cord



Contact fixture with rake to equalise diamond grits distribution



Contact fixture with titanium anode baskets (not shown) and shielding disc mounted into electro-plating cassette



Complete fixture system installed in the electro-plating tank.