

Automatic mica undercutting machine for large DC motors



BETAMATIK-200

Armature diameter:	200 - 2000 mm
Commutator diameter:	100* - 1600 mm
Undercutting length:	0 - 800 mm
Max height of commutator riser:	free height
Max distance between rollers:	2900 mm
Max armature weight:	10 to
Carbide cutters (od/id):	dia. 21 or 25/7 mm
Cutter rotation speed:	0 - 5500 rpm
Cutter feed speed:	0 - 50 mm/sec
Machine weight:	1800 kg
Overall dimension (LxWxH):	4300x2300x2000 mm

Electric supply:	V 400 3phase 50 Hz + Neutral + Ground
Pneumatic supply:	compressed air 5 bar

- Oscillating spindle to follow the bar skew (for commutator overhaul)
- Special program to follow the bar skew (for new commutators)
- Bar indexing by high precision laser unit+ colour camera and video LCD 15"for comm. magnifying
- Cutting axle + transversal axle for depth and commutator diam. adjustment CNC driven
- Armature rotation by step motor with adjustable speed and driving chain
- Automatic cutter lift during return
- Automation by PLC and LCD display with memory of 99 armatures data
- Automatic diagnosis of faults for an easy troubleshooting
- Bar deburring, by special "V" shaped cutters type T-21
- Dust exhauster type T-20 250 mc/hour , depression 1800mm of water high
- Bearing supports for small armatures up to 150-200kg .

* using support for small armatures