
UCM - Automatic Undercutting Machines

<http://www.whitelegg.com/product-search/ucm-automatic-undercutting-machines>

Whitelegg offer a wide range of dedicated and combination machines for the processing of DC armatures. Undercutting machines can be fitted with turning and TIG welding for example to provide a multiple purpose machine. Only the latest technologies are used for fast and very accurate processing.

Fully automatic undercutting process.

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+ camera and 15"LCD screen for commutator magnifying

CNC controlled cutting axis + transversal axis for depth control and commutator diam. adjustment

Armature rotation by stepper motor with adjustable speed and drive chain

Automatic cutter lift during return

Automation by PLC and LCD display with memory for 99 armature programs

Automatic diagnosis of faults for easy troubleshooting

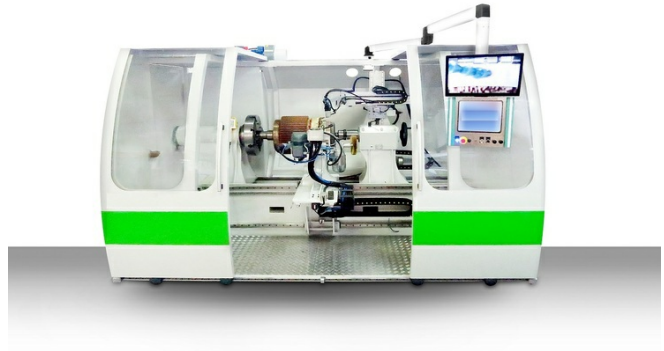
Bar deburring, by special "V" shaped cutters type T-21

Dust exhauster type T-20

Bearing supports for small armatures up to 150 kg .

Fiber optic equipment for bar index on front side of commutator. (Optional)

Brushing unit for rounding bar edges (Optional)



| | UCM07 | UCM08 | UCM09 |
|---------------------------|------------|-------------|-------------|
| Armature diameter | 100-600 mm | 150-1000 mm | 150-1500 mm |
| Commutator diameter | 80-500 mm | 100-900 mm | 150-1300 mm |
| Undercutting length | 0 -300 mm | 0-400 mm | 0-500 mm |
| Max height of comm. riser | | | |

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|------------------------------|--------------|-------------|------------|
| Max distance between rollers | 500-15400 mm | 500-1800 mm | 500-3000mm |
| Max. Armature weight | 2000 kg | 5000 kg | 6000 kg |
| Cutter rotation | 0-5000 rpm | 0-5000 rpm | 0-5000 rpm |
| Indexing Speed | 0-2 mm/sec | 0-2 mm/sec | 0-2 mm/sec |
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