

UCM - Automatic Undercutting Machines

<http://www.whitelegg.com/products/electric-motor/electric-motor-rewind-and-repair/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

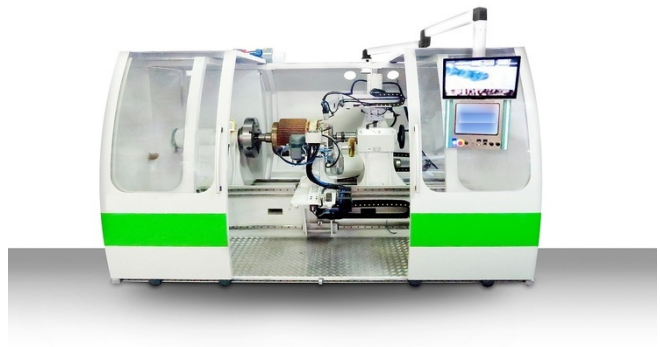
Automatic cutter lift during return

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 exhaustor 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			
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



