

## Combi machine for commutators Turning-undercutting + de-burring



### BETA-120-SAR

Armature diameter	150 - 1200 mm
Commutator diameter	130 - 1000 mm
Undercutting length	0 - 500 m
Max distance between centres	500 - 2300 mm
Max armature weight	4000 kg
Carbide cutters (od / id)	diam 21/ 7 or 25 / 7mm (od / id)
Diamond / carbide turning tools	16x16mm (section)
Max cutter thickness x depth	1,6 x 2,2 mm
Cutter rotation speed	0 - 5000 rpm stepless
Cutter / tool advancement speed	0 - 50 mm/sec
Commutator rotation speed	0 - 500 rpm
Machine weight	2200 kg
Overall dimension (LxWxH)	3500x1600x1800 mm

Electric supply: V 400 3ph+N+G 50Hz or others on demand  
Pneumatic supply: compressed air 5 bar

Oscillating spindle to follow bar skew (for commutator overhauling).

Special program to follow by laser bar skew (for new commutators).

Bar index by high precision laser unit.

Commutator magnifying by camera and LCD video-screen 15"

Automatic cutter lift during return.

Automation by PLC and LCD display with memory of 100 armatures data.

CNC undercutting axle for easy and fast adjustment of cutting and turning race

CNC transversal axle for automatic adjustment on commutator diameter and undercutting depth

Automatic diagnosis of faults for easy trouble shooting.

Dust & chips aspirator type VS3-159 3ph 400v 2 Kw