



HYT ENGINEERING COMPANY PVT. LTD.



YMM - 04

UNIVERSAL MULTI-PURPOSE ARMATURE MACHINE



Truly multi-purpose, Universal Armature Machine is used for the following operations on traction motor and traction generator armatures:

- Fully automatic mica under-cutting
- Deburring & polishing of commutator
- Commutator & bearing journal turning
- Commutator & bearing journal grinding
- Armature banding & re-rolling
- Coil cut off
- TIG welding (optional)

UNIQUE PROPOSITION

- Floating Spindle assembly for mica under cutting is incorporated to compensate skew effect of commutator bars.
- Round guideways for precision movement of carriage.
- Automatic indexing for mica under cutting.
- Single machine for multiple operations.
- High machining accuracies.
- Special guideways system for high accuracies.
- Positional current pulsing for TIG welding - Optional.

TECHNICAL PARAMETERS

Technical Data of Machine

○ Main Drive Motor Capacity	15 KW
○ Carriage Rapid Traverse in Longitudinal Direction	600mm/min
○ Head Stock Spindle Speed – Infinitely Variable	1.5 to 300 rpm
○ Carriage Feed in Longitudinal Direction	0 to 100mm/min
○ Maximum Depth of Cut while Commutator Turning	2.5mm
○ Maximum Banding Tension during Wire/Tape Banding	300 kg
○ Supply Voltage	415 VAC**
	50 Hz**

**Special electrical supply can be considered if required.

Armature

○ Maximum Armature Weight	30 kN
○ Minimum Length Of Armature	500mm
○ Maximum Length of Armature	1600mm
○ Minimum Diameter of Armature	500mm
○ Maximum Diameter of Armature	1400mm

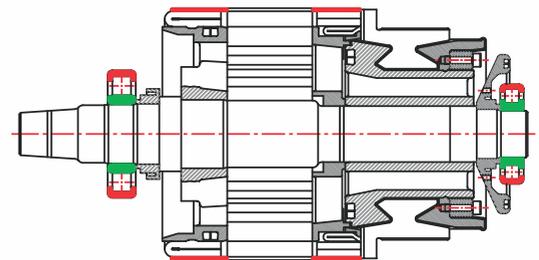
Commutator

○ Minimum Diameter of Commutator to be Machined	200mm
○ Maximum Diameter of Commutator to be Machined	900mm
○ Minimum Length of Commutator to be Machined	75mm
○ Maximum Length of Commutator to be Machined	450mm

Accuracies

○ Ovality of Commutator Turning	<0.015mm*
○ Taper of Commutator Turning	<0.015mm*
○ Uniformity of Banding Tension	<±10 kg

*Accuracies applicable for commutator up to diameter 450mm & length 450 mm



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OTHER PRODUCTS

CNC Tandem Underfloor Wheel Lathe | CNC Underfloor (Pit) Wheel Lathe | CNC Surface (Above floor) Wheel Lathe
CNC Vertical Turning & Boring Machine | CNC Axle Journal Turning & Burnishing Lathe

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Economical Rolling Stock Maintenance



Work: Plot No. 29/10, 29/10/1, 29/10/2, D - II Block, MIDC, Chinchwad,
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