

JHT–Universal Commutator Repair Machine

Single Machine for Commutator Truing, Automatic Mica Undercutting & Commutator Deburring and Polishing



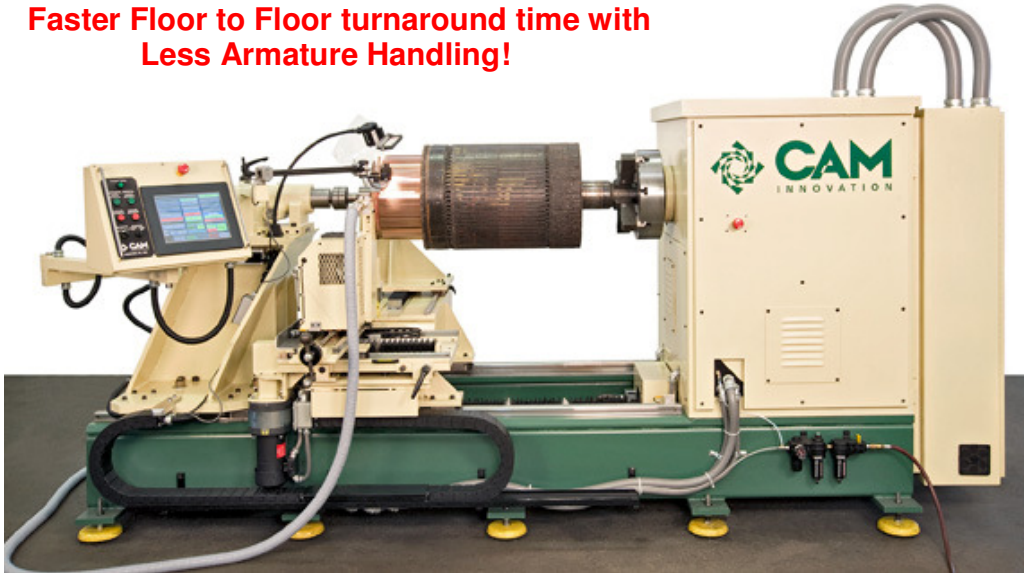
- Increases Productivity
- Reduces Armature Handling
- Reduces Overhead Crane Lifts
- Frees up Shop Lathe for other work
- Quick Process Change and Fast Set Up
- Accurate Direct Drive Indexing (No Belts)
- Precision Fiber Optic Mica Slot Detection
- Touch Screen Programmable PLC
- Program Storage for up to 20 Armature Types
- Sturdy, Solid, Robust Construction
- Easy to Learn, Simple to Operate

System Features	JHT Undercutter	Benefit
Programmable Controls for Undercutting and Brush Deburring	Recipes for up to 20 armature profiles	Faster set-up, reduces chances of set-up error
Fiber Optic Indexing Sensor	Detects Mica Slot	Confirms mica slot and saw alignment
Armature Indexing	Direct Drive	No external belts
Floating Saw Spindle	YES	Follows skewed mica, eliminates constant operator adjustments
Retractable Saw	YES	Lifts saw out of slot on return to eliminate back-cutting and provide faster operation and longer saw life
Carbide Saws	Many sizes available	Cuts cleaner, lasts longer than steel saws
Climb-Cut Saw Rotation	YES	Saw teeth cut from top down into mica to significantly reduce copper burrs
Saw Spindle	Floating type with Needle Bearings	Tracks skew mica slots automatically without operator adjustment
Armature Support	4 jaw chuck and #5 MT Live Centers	Pivoting chuck jaws enable easy to set-up armatures with tapered and non tapered shafts
Automatic Brush Deburring System	Built in attachment mounts on tool compound and is program controlled	Puts smooth radius on copper bar edge – eliminates chamfering and hand scraping
Commutator Turning	Quick change attachment mounts on tool compound with direct drive spindle capable of 600 rpm maximum	Saves time and armature handling by allowing machining of commutator and riser face to be completed on same machine as undercutting
Maximum Armature Weight	5,000 lb (2260 kg)	
Maximum Armature Diameter	36 in (900 mm)	
Maximum Armature Length between centers	52 in (1320 mm)	Bed extension is available.
Maximum Commutator Diameter	30 in (760 mm)	
Minimum Commutator Diameter	6 in (150 mm)	
Maximum Commutator Length	12 in (300 mm)	
Maximum Shaft Diameter	7 in (175 mm)	
Minimum Shaft Diameter	1.75 in (44 mm)	Other jaws available for smaller shafts.
Standard Machine Electrics	460 V, 3 Ph, 60 Hz	Other electrics available.

JHT— Large Universal Commutator Repair Machine

Commutator Turning, Automatic Undercutting & Deburring All in One Machine!

**Faster Floor to Floor turnaround time with
Less Armature Handling!**

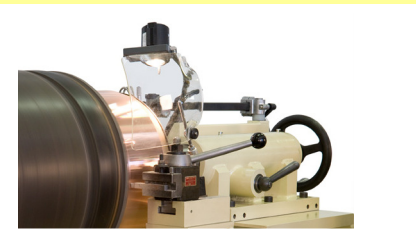


**Multi-Function
Machine, Uses
Innovative, Smart
Technology to Improve
Work Quality &
Shop Productivity!**

CAM's new commutator Turn & Undercut machines greatly reduce armature handling and speed process time by eliminating the need to move armatures back and forth between single function machines. Designed specifically for shops that handle medium to large sized armatures, the JHT is ideal for servicing DC traction motors, mining and mill motors used in many industrial applications.

#1 Commutator Turning & Facing

The quick change commutator turning attachment mounts on the machine's tool post. Once the tool set-points and carriage feed rates are determined they can be easily programmed and stored in memory for repeatable set-up.

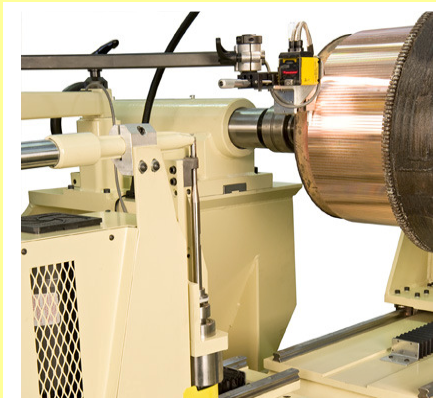


**Easy, Fast
Recipe Set-Up**
with program
storage capacity
for up to 20
armature types
ensures optimal
performance
every time!



#2 Automatic Mica Undercutting with Fiber Optic Indexing Technology

This Universal Armature Machine has all of the features found in our top-of-the-line Automatic Undercutters including: a programmable controller, retractable spindle, fiber optic mica slot sensor and automatic armature indexing. The floating spindle follows skewed mica eliminating constant operator adjustments. On the return stroke the spindle retracts out of the mica slot for faster process time and extended saw life.



#3 Brush Deburring

CAM's patented Brush Deburring Attachment eliminates tedious and time consuming hand chamfering of each mica slot and speeds clean up. Just slide the attachment onto the JH tool post and the JH will automatically follow the deburring recipe for each armature.



**Brush Deburring takes
only 15 minutes, is more
consistent than hand
chamfering and is better
for the motor!**



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