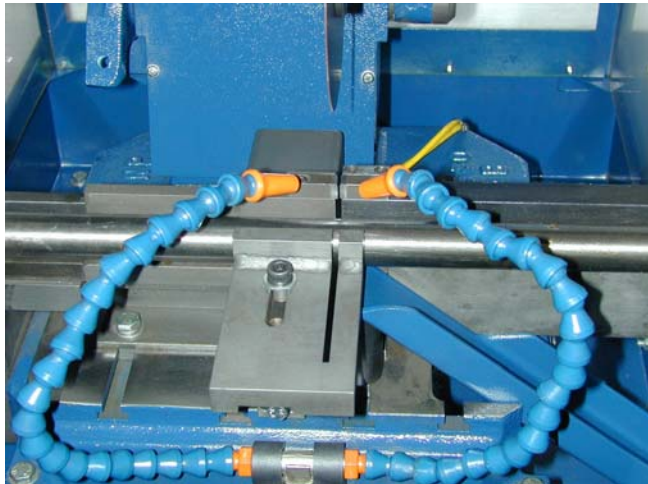




3000 Series Semi-Automatic Cutting Machine for cutting long lengths of tube and bar



Design features

Contact with endstop initiates the automatic cutting cycle.

Digital display of endstop position

Automatic wheel wear compensation

Cutting speed adjustment

Carbide guides for cut length accuracy

Introduction

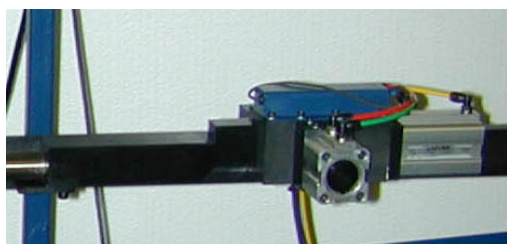
This is a modification of the 3000 series Microfine automatic cutting machine designed to cut long lengths of tube or bar with minimal burrs. The cutting head is powered by a 2.2KW 3 phase motor. The raise/ lower system for the cutting head is a air/oil with the downfeed rate adjustable over a wide range. The pneumatic vice clamps the material on both sides of the cut with carbide guiding ensuring the cutting wheel does not flex. Short cut lengths fall down a chute into a collector. The cut length is determined by a retracting endstop with digital display of



position.

An external coolant circulation system can be used to spray coolant into the cutting area.

The canopy has front and side viewing windows and is safety interlocked.



Retracting Endstop with position display

The endstop is retracted pneumatically. To ensure reproducibility of position the stop is locked pneumatically when fully out.



Vice design

The one piece front jaw has a slit for the cutting wheel and holds the material on both sides of the cut. The narrow width of the clamping on the RH side allows short cut lengths to fall down a chute into a collector. Carbide wheel guides are incorporated for accurate cutting. The stroke & position of the front jaw can be adjusted for minimum cycle time

Control Panel - Head Positioning – Depth of Cut



The front control panel has the usual controls for start motor, start coolant and start cycle. In addition there are controls to position the cutting head between cuts just above the tube diameter and to limit the down stroke of the head to just below the tube. In this way the cutting time is reduced and compensation can be made for the wheel diameter as it is being worn down.

The cutting cycle is controlled by a PLC program

Ordering Information

- 8-320-001-00** 3000 series semi-automatic cutting machine 380-415V 3ph
- 8-320-002-00** 3000 series semi-automatic cutting machine 208-220V 3ph
- 8-320-003-00** 3000 series semi-automatic cutting machine 460V 3ph
- 7-300-490-00** Inverter for wheel speed variation
- 7-320-552-00** Spark chute/extraction manifold for dry cutting



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