

RT3000 CNC Grinder/Groover

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Grooving Head



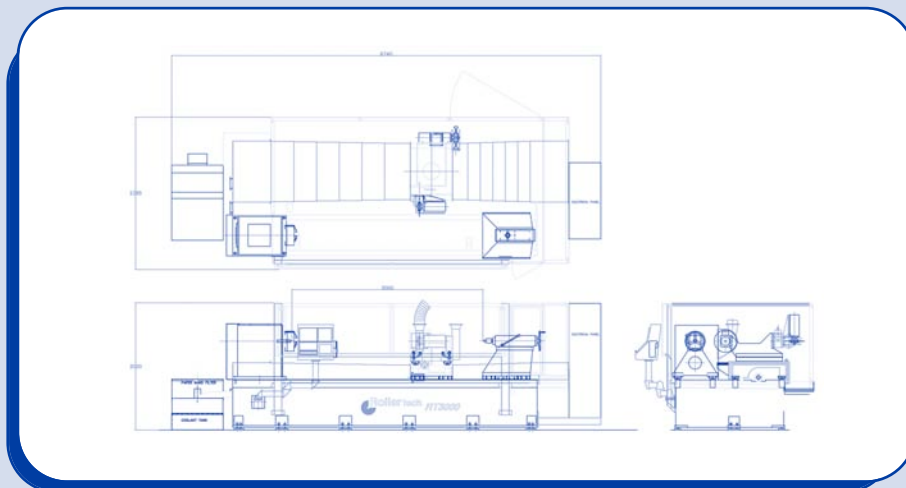
Control keyboard



RT3000



Operating Screen



RT3000 CNC Grinder/Groover

Performance

These exciting new CNC grinding machines are purpose built and not an adaptation of existing machines and were designed following extensive market research of the global rubber roll industry's needs.

The innovative, heavy duty 3000mm design, features a traversing wheel head in both the "X" (front to back) and "Z" (longitudinal) axes, thus eliminating the "age old" table traverse / inertia problems. This has led to an increase of the maximum component weight to a massive 3000kg, on our basic machine. Higher weights can also be specified.

Wheelhead

It is of a heavy duty construction with optional wheel sizes and types. 350mm Tungsten Carbide or a 760mm Resin Bonded. The grinding wheel spindle is mounted in large diameter sluing ring for ease of manual indexing the turret prior to being clamped in the operating position. The main motor drives are 11kw to 18kW, dependant on grinding wheel option specified.

Workhead

The forged spindle cartridge is mounted in heavy duty bearings in a heavily ribbed headstock for extra rigidity and features a 78mm bore and a 300mm 3 jaw self centring chuck. It has an infinitely variable drive with a maximum of 600rpm and "inch" facility to aid setting. For components held between centres a removable bush and 5 Morse taper adaptor also come as standard.

Tailstock

This heavy duty unit comes complete with an unique locking mechanism giving positive taper elimination. It features a 5 morse taper with the facility to mount a 3 jaw chuck if desired and traverses the full length of the bed to accommodate differing roller lengths.

We use an advanced linear slide way system throughout with the axes driven by Fanuc GE hi-torque servos through heavy duty recirculating ballscrews.

The control system is the latest Fanuc GE Oi-D touch screen CNC controller, utilising their simple to use question and answer format. A multitude of programmes has been developed and incorporated into the control including parallel, convex and concave grinding along with grooving cycles giving herringbone, chevron and diamond patterns to name but a few. It has further been developed to enable customers to easily prepare programmes for their own specialist shapes and patterns as required.

The machine is compact with a small footprint – considerably smaller than a conventional machine thus maximising floor space. There are two models available, the 600 and 1250 series (designation indicates maximum diameter in mm)

Both models can be specified with full guarding if required. This still allows auto operation with the capability of operating manually should it be necessary.

Technical Specification

Distance between centres	3000mm
Z axis travel (wheelhead)	3000mm
X axis travel (wheelhead)	280mm
Maximum swing	600mm or 1250mm
Wheel size	350mm or 760mm
Wheelhead traverse	7500 mm/min
Minimum dia. ground – 350mm wheel	40mm
Minimum dia. ground – 760mm wheel	40mm
Wheelhead motor power (350mm Grinding wheel)	11kw & 5740rpm
Wheelhead motor power (760mm Grinding wheel)	18kW & 880rpm
Wheelhead motor power (Grooving Wheels)	5.2kW & 5820rpm
Headstock bore	80mm
Headstock (with bush fitted)	5 morse
Headstock speed -	max 600 rpm
Tailstock travel Full length of bed	
Tailstock taper	5 morse
Maximum work piece weight.(3m version)	3000 Kgs.
Electrics	380/415 volts 50/60 cycles, 3 phase

Options

Extend machine in 1m increments to 6500mm to 6.5m
Variable speed wheelhead option
Grooving attachment (fits rear of wheelhead)
Independent 3 jaw chuck
Independent 4 jaw chuck
Tailstock mounted 3 jaw chuck
Coolant system complete
Full perimeter guarding

Dimensions (3m RT3000)

Basic (without coolant system) 5900mm x 2400mm
Floor area (with coolant system) 6700mm X 2400mm
Machine weight 10 tonnes