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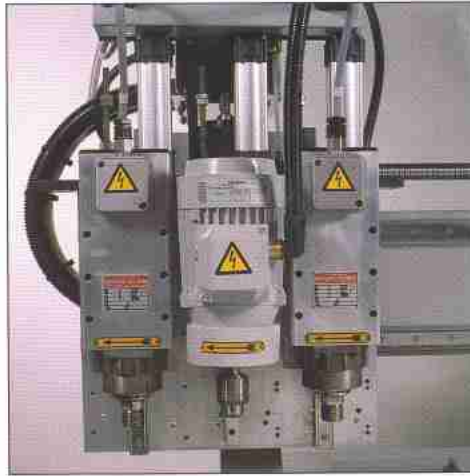


QUESTA
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Quantum in detail . . .



High precision hardened ballscrews



Set of two routerheads for simultaneous working

The frame structure of the Quantum series provides a rigid support system for the cutting spindles by providing a beam structure supported BOTH SIDES. Axes power to drive the cutter through the workpiece at optimum feed rates and provide long term performance is achieved by fitting high torque motors.

Midi 4.8 Nm Maxi 7.4 Nm



Vacuum pump with safety interlock



Drilling hard or brittle materials is no problem since the electric drills have programmable feedrates



The Omicron 3000 is dedicated to contouring, providing accurate control of axis movements giving high definition of components at high feed rates

The machine can be operated in DNC mode from an IBM compatible host computer



Prismatic slideways for smooth, accurate movements

Smooth movement of the cutter path is achieved by using high quality oversized ball rail systems supported on two pairs of angular contact bearings.



5.5 kW routerheads for independent working



Vacuum table for optimum workholding and fixture location

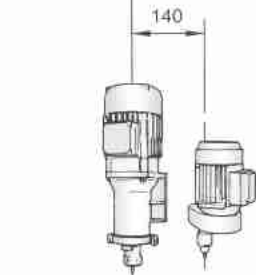


6.8 kW automatic toolchange routerhead with ISO 30 taper

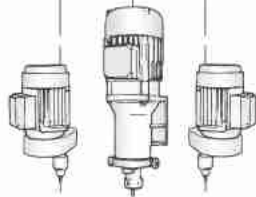


QuantumTM

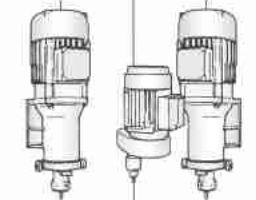
500/800mm TRAVEL 500/800mm TRAVEL



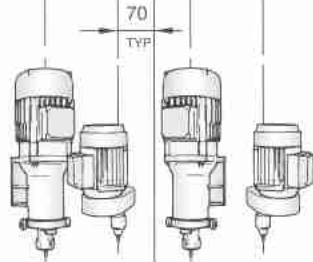
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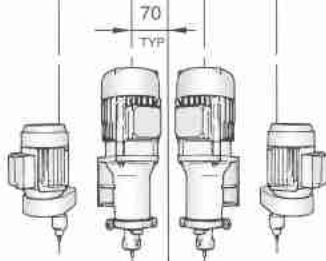
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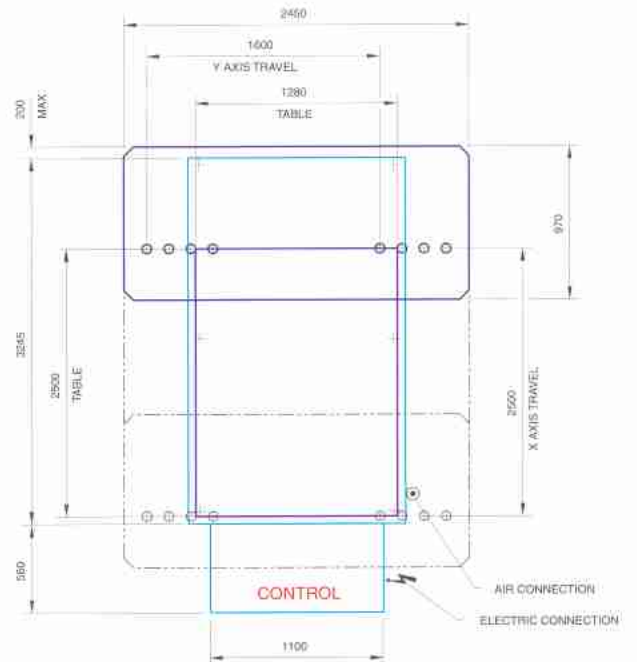
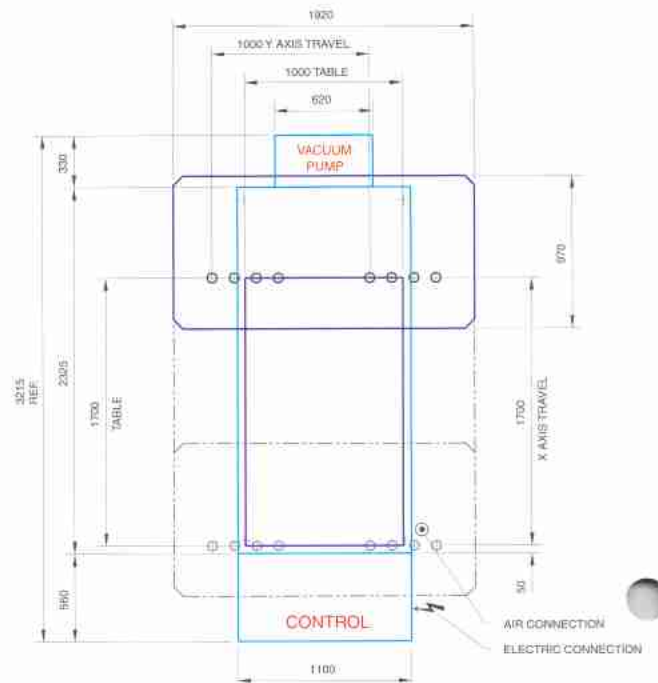
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800mm TRAVEL 800mm TRAVEL



Technical Specification

Quantum Midi

Standard specification:

X axis travel	1700 mm
Y axis travel	1000 mm
Z axis travel	150 mm
Nominal table size	1700 x 1000 mm
Table working height	900 mm
Clearance under gantry	180 mm
Feed rates: X axis	0 - 15 m/min
Y axis	0 - 15 m/min
Rapid X & Y axis	15 m/min

Full head guard

Vacuum table with single hand tap and low vacuum safety interlock 40 cu m/h vacuum pump.

Quantum Maxi

Standard specification:

X axis travel	2500 mm
Y axis travel	1500 mm
Z axis travel	150 mm
Nominal table size	2500 x 1280 mm
Table working height	900 mm
Clearance under gantry	180 mm
Feed rates: X axis	0 - 15 m/min
Y axis	0 - 15 m/min
Rapid X & Y axis	20 m/min

Full head guard

Vacuum table, manual operation with low vacuum safety interlock 80 cu m/h vacuum pump.

Control equipment

Omicron 3000 computer control with a 150 K application dependent battery-backed RAM memory, 500 Kb of flash memory capacity, specification dependent for fixed program storage and a 32 Bit RISC processor.

Control standard features:

- High speed drip feeding.
- Cutter compensation.
- Inch/metric switching.
- RS232 communication port.

Spindle options

Single 5.5 kW (7 HP) routerhead featuring:

- Right hand rotation
- Auxiliary slide with 100 mm travel
- Spindle speed range 9000 - 18000 rpm selectable via S-Word
- No.2 Morse taper
- Inverter drive with regenerative and DC braking
- Dust hood

Set of two 5.5 kW (7 HP) routerheads with fixed centres at 140 mm, featuring:

- Right hand rotation
- Auxiliary slide with 100 mm travel
- Spindle speed range 9000 - 18000 rpm selectable via S-Word
- No.2 Morse taper

Set of two 4 kW (5 HP) routerheads with fixed centres at 280 mm standard (Min 140 mm) for simultaneous working, featuring:

- Right hand rotation
- Auxiliary slide with 100 mm travel
- Spindle speed range 9000 - 18000 rpm selectable via S-Word
- No.2 Morse taper
- Single inverter drive with regenerative and DC braking
- Dust hoods

A maximum of two further units from options detailed below can be mounted on the Quantum Series twin head models.

- 0.75 kW (1 HP) electric drill unit, 13 mm chuck
Spindle speed 2820 rpm
- Horizontal drill adapter mounted to drill parallel to the axis
- 0.75 kW (1 HP) fixed speed routerhead, maximum collet 13 mm

Maxi only

Single 6.8 kW (9 HP) automatic toolchanging routerhead with:

- Inverter drive, regenerative and DC braking.
- Infinitely variable spindle speed range 3000 - 18000 rpm.
- Seven station tool rack.
- International 30 taper.
- Maximum collet size 25 mm.
- Maximum tool size, 80 mm diameter, 80 mm long.

The logo for Quantum, featuring the word "Quantum" in a stylized, italicized, red font with a white outline.