

SUPERSPRINT

2 AXIS CNC PLATEN PRODUCTION LATHES



The EMI-MEC SUPERSPRINT takes advantage of the simplicity, fast cut to cut and robust qualities inherent in a platen toolslide, flat bed type machine. This together with its ability to accept a comprehensive range of toolholders and simple air driven second operation attachments, makes the SUPERSPRINT today's simplest, most practical and economic 2 axis CNC production lathe.

Two SUPERSPRINT models are available. The Model 30 employing conventional collet operation for production of parts from bar up to 32mm diameter. And the Model 32/165 with a hydraulically actuated 165mm diameter

through bore chuck providing complete flexibility for bar and chucking work.

The versatility of the SUPERSPRINT can be further enhanced by the use of an optional hydraulically operated vertical part off slide. This facilitates the use of simple attachments, such as a toolslide mounted parts catcher and back centering or chamfering devices.

Elegantly simple in concept the SUPERSPRINT CNC production lathe was conceived and developed to meet the prime requirement of the majority of small turned parts users; Maximum Productivity for Minimum Investment.

EMI-MEC

SUPERSPRINT

MODEL 30 BAR & MODEL 32/165 BAR/CHUCKING LATHES

SPECIFICATION / MODEL	SUPERSPRINT 30 bar machine	SUPERSPRINT 32/165 bar-chucking machine
WORK CAPACITY		
Bar diameter maximum	32mm (collet)	32mm (in 3 jaw chuck but not below 5mm)
Turning length maximum	265mm	235mm
Chuck specification	Option of 170mm closed centre	165mm through hole chuck standard
Chuck actuation	Pneumatic (max speed 3000 rpm)	Hydraulic, separate power pack
SPINDLE		
Spindle nose mounting	A2.4"	A2.4"
Collet system	T980 Multibore	Not applicable
Hole through spindle	42mm	42mm
Front bearings	2 angular contact	2 angular contact
Rear bearings	2 angular contact	2 angular contact
SPINDLE DRIVE		
Speed range	60 - 4000 rpm	72 - 4800 rpm
Power	6.45kw continuous, 11kw peak	6.45kw continuous, 11kw peak
Drive type	Direct poly vee belt	Direct poly vee belt
PLATEN SLIDE, X AXIS		
Slide travel	440mm	440mm
Feedrate range	0 - 3000mm / min	0 - 3000mm / min
Rapid traverse rate	8000mm / min	8000mm / min
Drive type	Ballscrew and DC Servo motor	Ballscrew and DC Servo motor
Z AXIS SLIDE		
Slide travel	265mm	265mm
Feedrate range	0 - 3000mm / min	0 - 3000mm / min
Rapid traverse rate	8000mm / min	8000mm / min
Drive type	Ballscrew and DC Servo motor	Ballscrew and DC Servo motor
PLATEN TOOLING		
Tool section, turning	20 x 20mm maximum	20 x 20mm maximum
Bore work toolholders	25mm dia. bore	25mm dia. bore
Number of tools, typically	6 - 10	6 - 10
VERTICAL SLIDE (part off only)		
Slide travel	Optional extra 76mm	Optional extra 76mm
Feedrate range	0 - 800mm / min	0 - 800mm / min
Rapid traverse rate	6000mm / min	6000mm / min
Drive type	Hydraulic (air intensified)	Hydraulic (air intensified)
BAR FEED, AUTOMATIC		
EMI-MEC pneumatic 3 metre bar	Standard (max. speed <3000rpm)	Optional
ACROVU heavy duty pneumatic	Optional extra (max speed >4000rpm)	Standard; with one liner
LUBRICATION		
Spindle bearings	Kluber greased for life	Kluber greased for life
Slides and Ballscrews	Automatic multi-point	Automatic multi-point
COOLANT		
Pump	Electric centrifuge type	Electric centrifuge type
Flow rate maximum	25 litres per min	25 litres per min
Capacity of tank	75 litres	75 litres
DIMENSIONS		
Length, depth, height, weight	2300 x 1460 x 1600mm; 1500kgs	2300 x 1460 x 1600mm; 1650kgs
EMI-MEC bar feed	Add 3600mm to length, add 50kgs	Add 3600mm to length, add 50kgs
ACROVU bar feed	Add 5000mm to length, add 420kgs	Add 5000mm to length, add 420kgs
ACCURACY		
X axis repeatability	5 microns	5 microns
Diametral accuracy	25 microns	25 microns

BOSCH CC100 T CONTROL Standard Specification

250mm monochrome green screen display
Inch / metric switching
Two RS232c serial interfaces
32 k byte part programme storage
Integral PLC, programmable on machine
Parametric programming language
ISO format programming
Canned cycles; drill, thread, contour, roughing, grooving and peck drilling
17 contour cycles
Tool length and radius compensation
Comprehensive diagnostics
0 - 120% feed rate override in 1% increments
39 programmable cycles
DNC drip feed
Dynamic tool path simulation
7 zero shifts
Soft key hierarchical operating control
Linear and circular interpolation
Handwheel for X and Z slide control
Constant surface speed
Graphic aided programming
Tool life management
English language (others available)
32 pairs of tool offsets
Programmable manual function keys
Built in calculator

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