



EMCO TURN 345-II

Extremely accurate
CNC lathe for bar work
up to 45 mm (1.75")
and chucking work



emco

innovative machine tools

EMCOTURN 345-II

Compact. Powerful. Precise.

The acclaimed EMCOTURN 345-II. A compact universal lathe for chuck work, bar stock and shafts. Top quality engineering from Austria. We guarantee precision parts, ergonomics and a long machine-life.

Control

- state of the art digital control technology
- LCD screen
- SIEMENS or FANUC
- RS-232 interface

Headstock

- high power drive system
- thermally stable construction
- wide speed range
- A2-5 spindle nose
- bar capacity 45 mm (1.75")

Work area

- 70° slant bed design
- free chip fall into the chip conveyor
- 100% covered guideways
- VDI quick change tooling system

Machine base

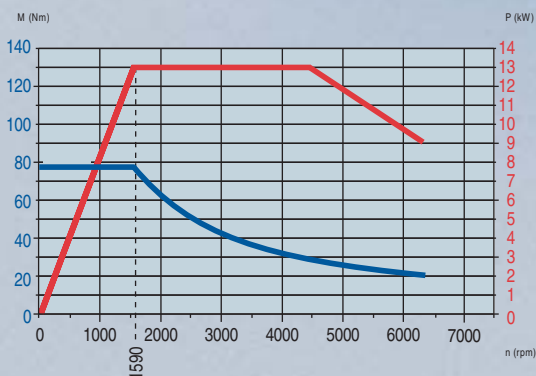
- easily transported with forklift truck
- large coolant reservoir
- easy cleaning
- no leveling necessary

Machine guarding

- oversized easy to open operator access doors
- good visibility of the work area
- complete protection from flying chips and coolant
- designed with safety and environmental standards in mind



Performance and torque diagram



Highlights

- compact design
- very small footprint
- driven tools 6,7 kW (9 hp)
- rigid tapping and polygon turning are standard
- superb accuracy
- quick VDI 30 tool change system
- extremely versatile
- latest-generation controls from Siemens or Fanuc
- user-friendly software support



Programmable parts catcher for careful removal of finished parts.



Hinged PC keyboard. Ergonomics all the way a major benefit, especially when most programming is done at the machine.



The automatic tailstock is freely programmable and can be positioned within the 510 mm (20.1") stroke.



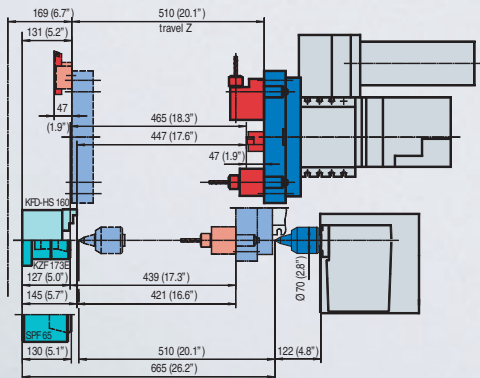
The standard tailstock is positioned manually. The quill is program-controlled (120 mm (4.7") stroke).

Powerhouse packed with potent technology: Digital drives ensure best-of-class dynamics and outstanding contour precision. Choice of SIEMENS or FANUC control, so you can select from the very best in control technology. Superb ergonomics ensure fatigue-free operation. Premier quality is the hallmark of the entire package, so you know that your investment is all set to generate profit.

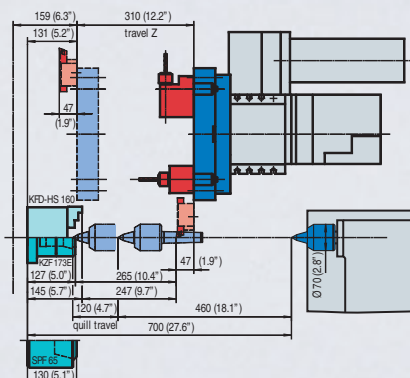


Work area

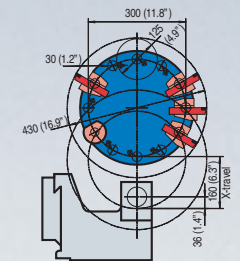
automatic tailstock



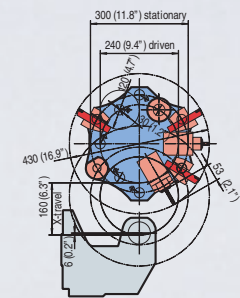
standard tailstock



Tool turret

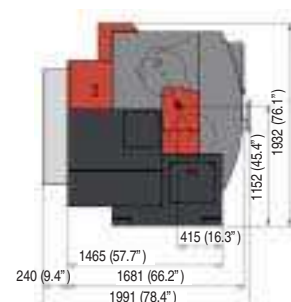
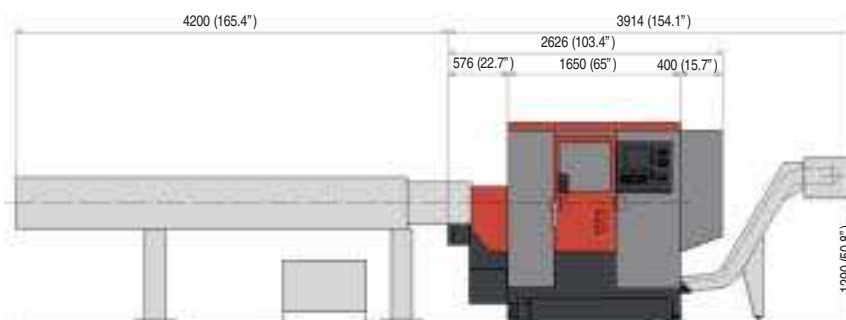


without driven tools



with driven tools

M mounting plan ET 345-II with bar magazine



Technical Data	EMCO TURN 345 -II
Work area	
Swing over bed	430 mm (16.9")
Swing over cross slide	210 mm (8.3")
Center distance	600 mm (23.6")
Max. turning diameter	220 mm (8.7")
Max. work length	510 mm (20.1")
Max. bar diameter	45 mm (1.75")
Travel	
Travel in X	160 mm (6.3")
Travel in Z	310/510 mm (12.2/20.1")
Spindle	
Speed range	0 – 6300 rpm
Torque at spindle	78 Nm (58 ft/lbs)
Spindle nose DIN 55026	A2-5
Spindle bearing (inside diameter)	80 mm (3.1")
Spindle bore	53 mm (2.1")
C-axis	
Resolution	0,001°
Rapid traverse	1000 rpm
Spindle positioning	0,01°
Main drive	
Power	13 kW (17 hp)
Tool turret	
Number of tool stations	12
Shank VDI (DIN 69880) (Quick change tool shank)	VDI 30
Tool cross-section	20 x 20 mm (0.8 x 0.8")
Shank diameter for boring bars	32 mm (1.3")
Turret indexing speed	0,2 sec
Driven tools	
Number of stations	6
Power	6,7 kW (9 hp)
Torque	16 Nm (12 ft/lbs)
Speed range	0 – 5000 rpm
Feed drives	
Rapid traverse rate in X/Z	20/24 m/min (787/945 ipm)
Feed force in X	4000 N (899 lbs)
Feed force in Z	6000 N (1349 lbs)
Acceleration time	0,2 sec
Position scatter Ps (to VDI 3441) X/Z	0,003/0,005 mm (0.00012; 0.00020")
Standard tailstock	
Quill diameter	60 mm (2.4")
Quill travel	120 mm (4.7")
Quill bore taper	MT 4
Quill thrust	5000 N (1124 lbs)
Automatic tailstock	
Tailstock travel	510 mm (20.1")
Max. thrust	6000 N (1349 lbs)
Travel speed	approx. 20 m/min (800 ipm)
Tailstock bore taper	MT 4
Coolant system	
Reservoir capacity	250 Liter (65 gal)
Pump power	0,57/2,2 kW (0.8/3.0 hp)
Power ratings	
Electrical power supply	17 kVA
Compressed air	6 bar (87 psi)
Consumption	approx. 300 l/h (79 gal/h)
Dimensions	
Height of turning axis above floor	1160 mm (45.6")
Height of Machine	1940 mm (76.4")
Footprint (W x D)	2250 x 1980 mm (88.6 x 77.0")
Total weight	2600 kg (5700 lb)
Electrical and safety compliance	CE-certified

EMCO, the
full-system
industrial supplier

EMCO Concept,
the system for
industrial training

System production
line



EMCO MAGDEBURG M VT 160

CNC lathes and
milling machines with
interchangeable control
unit concept



EMCO CONCEPT TURN/MILL 55

Modular CNC
turning and milling centers



EMCO HYPERTURN 665M C



EMCO CONCEPT TURN/MILL 105

CNC turning centers



EMCO MAXXTURN 95



EMCO CONCEPT TURN/MILL 155

CNC large dimension lathes



EMCO TURN 900



EMCO CONCEPT TURN 345/MILL 300

FAM UP CNC
machining centers
Vertical milling centers

Conventional
lathes



EMCO MAT-20D



EMCO FAM UP M C-Line/M CX-Line

Precision lathes
with cycle control



EMCO MAT-E300

With integrated pallet changer



EMCO FAM UP M CP-Line

Milling machines



EMCO MILL FB-5

Movable column milling
machines



EMCO FAM UP M MV-Line

awarded by:



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