



DUGARD

EAGLE 300

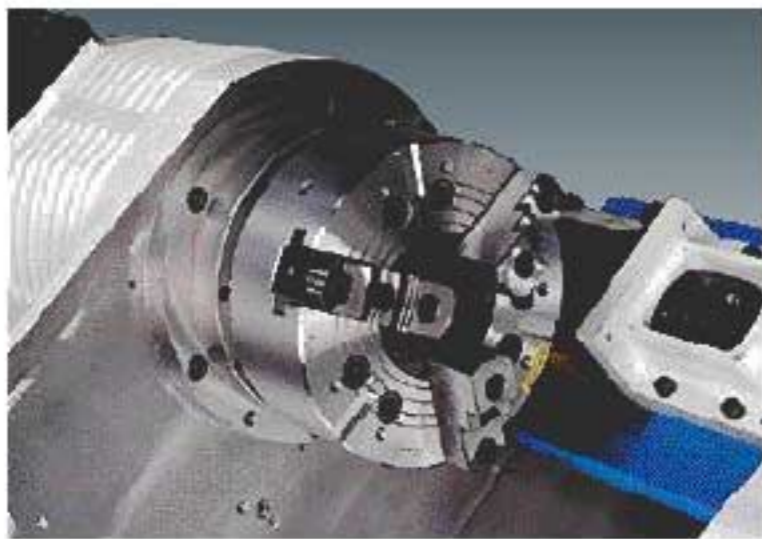
Slant Bed High Precision CNC Lathe

***Increase Your Competitive
Edge with EAGLE 300
Series CNC Lathe***



EAGLE 300

Outstanding Features That Guarantee Faster, More Accurate Turning and Lower Production Costs!



**Heavy Duty,
Precision Spindle**
Model EAGLE 300P
and 300MC

The spindle is supported by twin track high rigidity NN type ball bearings and large diameter high precision angular contact ball bearings making it ideal for heavy duty machining at low speeds.



**High Precision C-axis
Spindle Indexing**
Model EAGLE 300MC

High accuracy C-axis spindle indexing system with spindle driven by high precision C-axis servo motor providing high resolution feedback.



**10-tool Hydraulic
Cam Turret**
Model EAGLE 300
and 300P
**High Speed,
High Precision**

The compactly constructed hydraulic cam operated turret has a loading capacity of 10 tools. An extremely fast tool change of 0.3 seconds tool to tool. Outstanding repeatability accuracy of below 0.003 mm.

Headstock

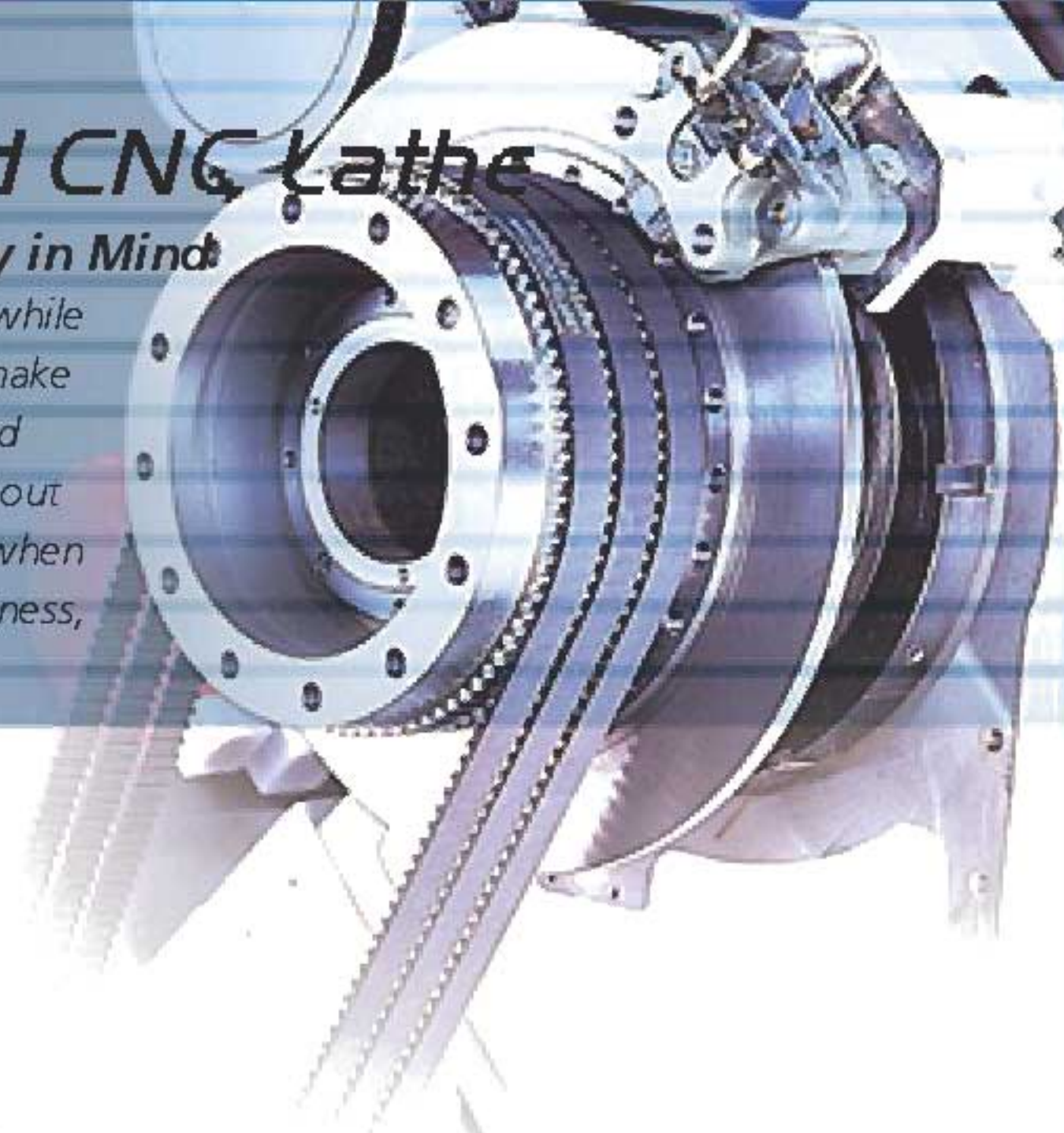
Massively proportioned heavily ribbed casting for maximum heat dissipation with large bed-contact area for maximum rigidity.



EAGLE 300 series Slant Bed CNC Lathe

A Lathe Designed with Productivity and Dependability in Mind

Now, you can step up your parts turning capacity with greater efficiency while reducing your operating costs. EAGLE 300 series Slant Bed CNC Lathes make such profitable production possible through their exceptional capacity and accuracy. The 45° slant bed combined with rugged construction throughout allow for heavy duty cutting with ease. They provide extra high stability when performing heavy cutting. To increase the competitive edge for your business, consider the EAGLE 300 series CNC Lathe.



20-24m/min Rapids, X & Z Axes Linear Guideways

Linear guideways provide high speed rapid traverses, high rigidity and precise positioning.

Turret

High speed, heavy duty construction. Outstanding rigidity and accuracy.

45 Degree Slant Bed

Heavy duty cast construction allowing optimum chip clearance.



Servo Turret Model EAGLE 300MC Combine Milling and Turning in One

- The advanced servo turret employs the latest tool selection system, featuring the fastest tool change.
- 3 disc clutch gears design provides high accuracy positioning with fast hydraulic locking.
- Extremely fast tool change of 0.2 seconds tool to tool.
- Versatile functions include drilling, milling, turning, tapping and end milling which greatly upgrades machining efficiency.

Efficient Chip Removal System

Pull out swarf and coolant tray keeps downtime to a minimum and allows for easy integration of a chip conveyor.

Hydraulic Tailstock

Quill can be controlled by program or manually, auto sensing device to control pressure. Programmable body optional.

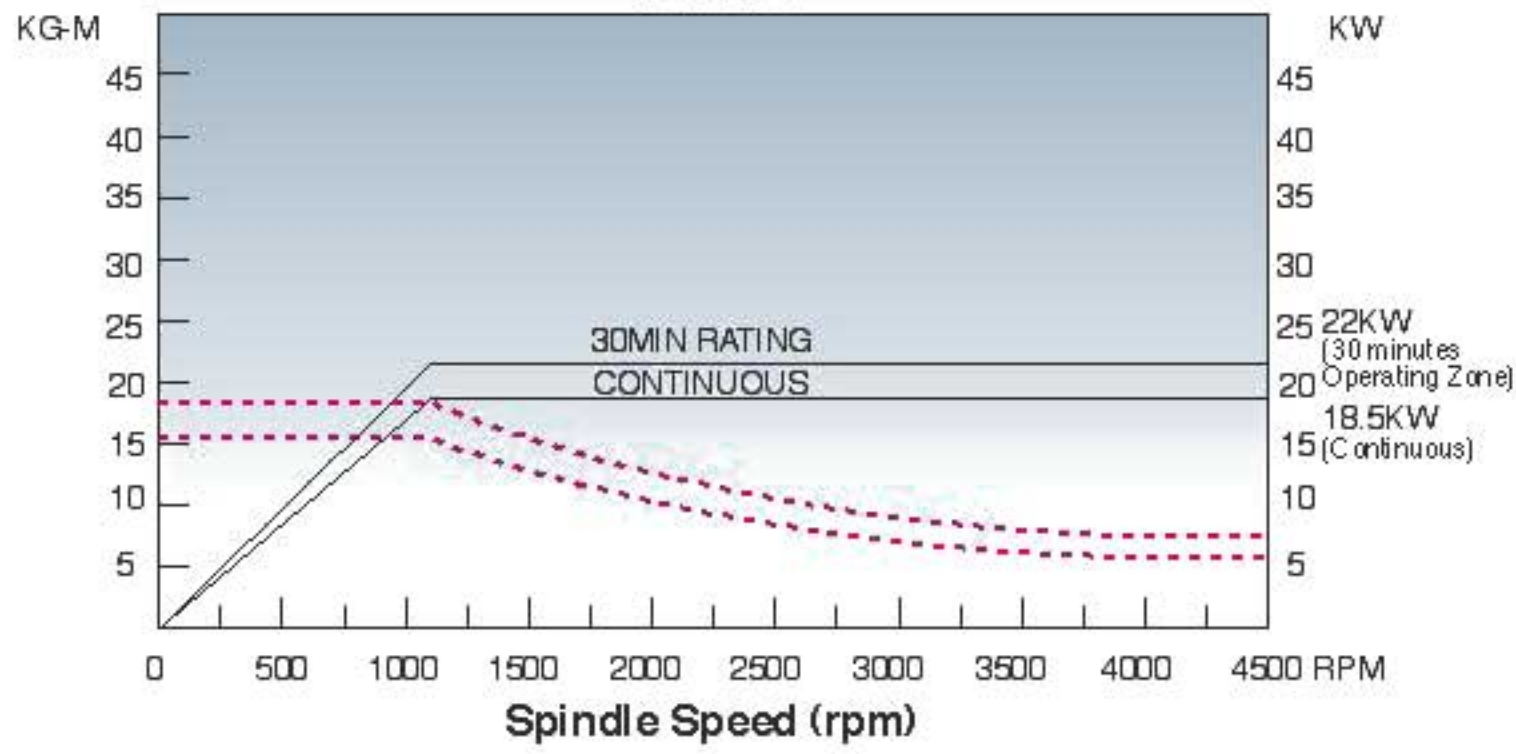
Options Include

- 315 mm 3-jaw hydraulic chuck
- Parts catcher
- Chip conveyor
- Bar feed

Spindle Motor

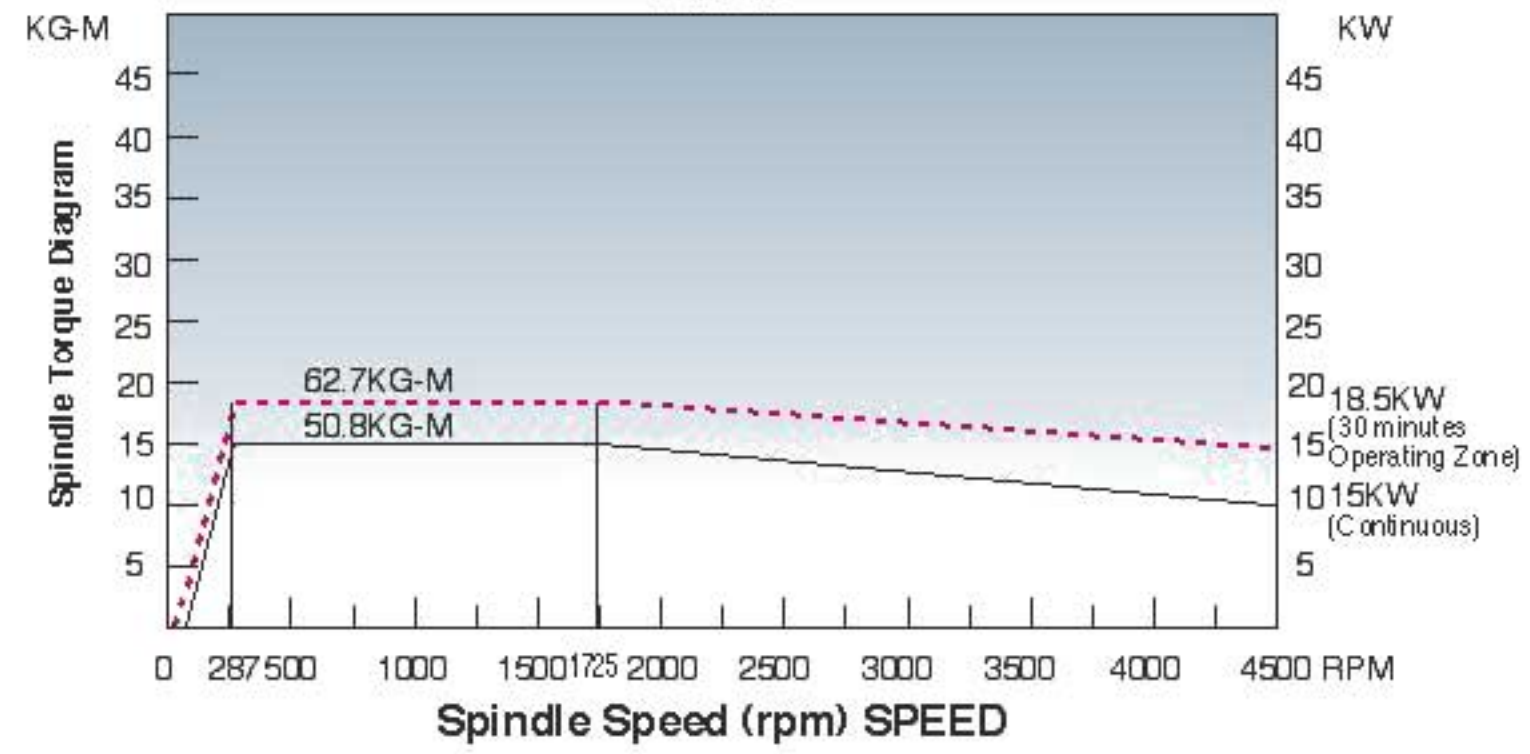
EAGLE 300

Fanuc



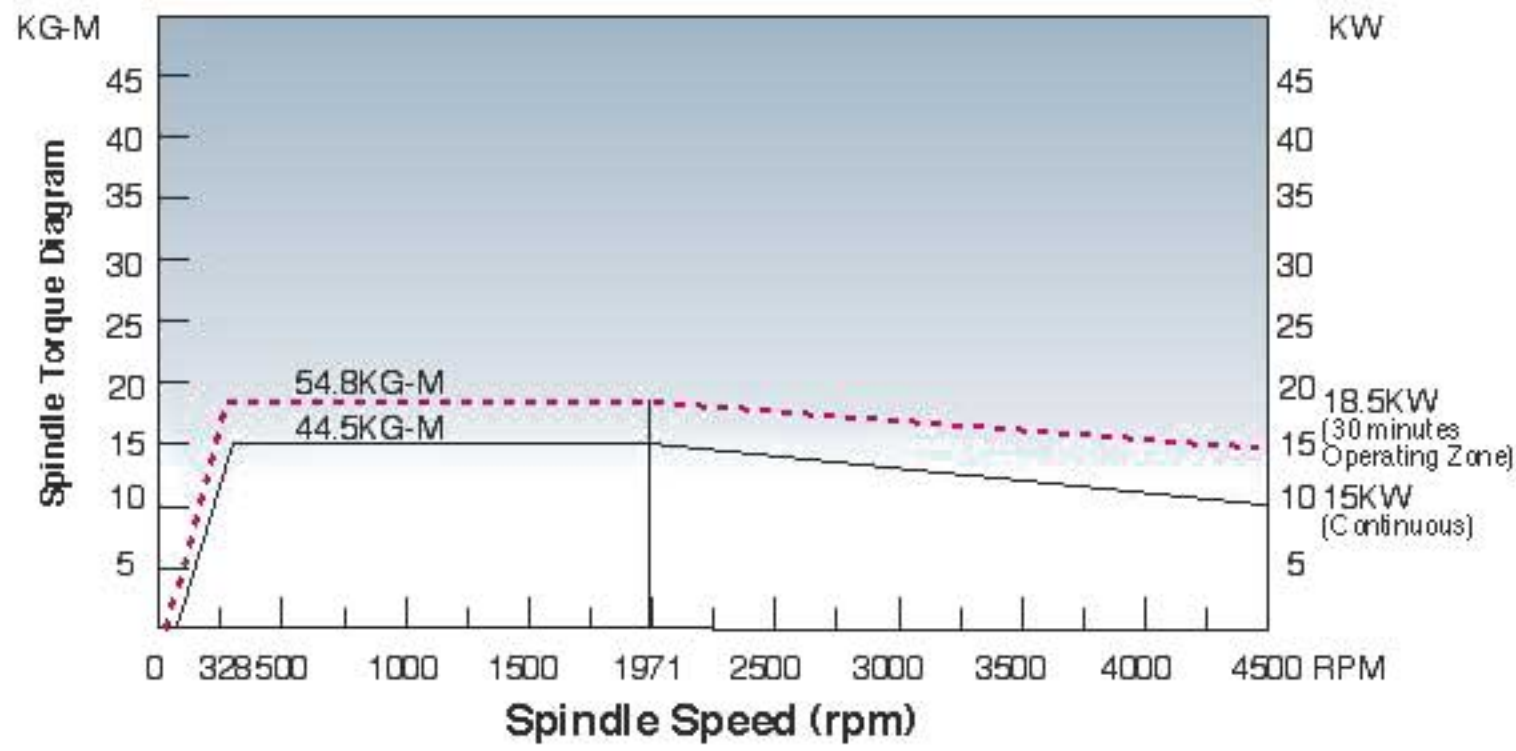
EAGLE 300P

Fanuc



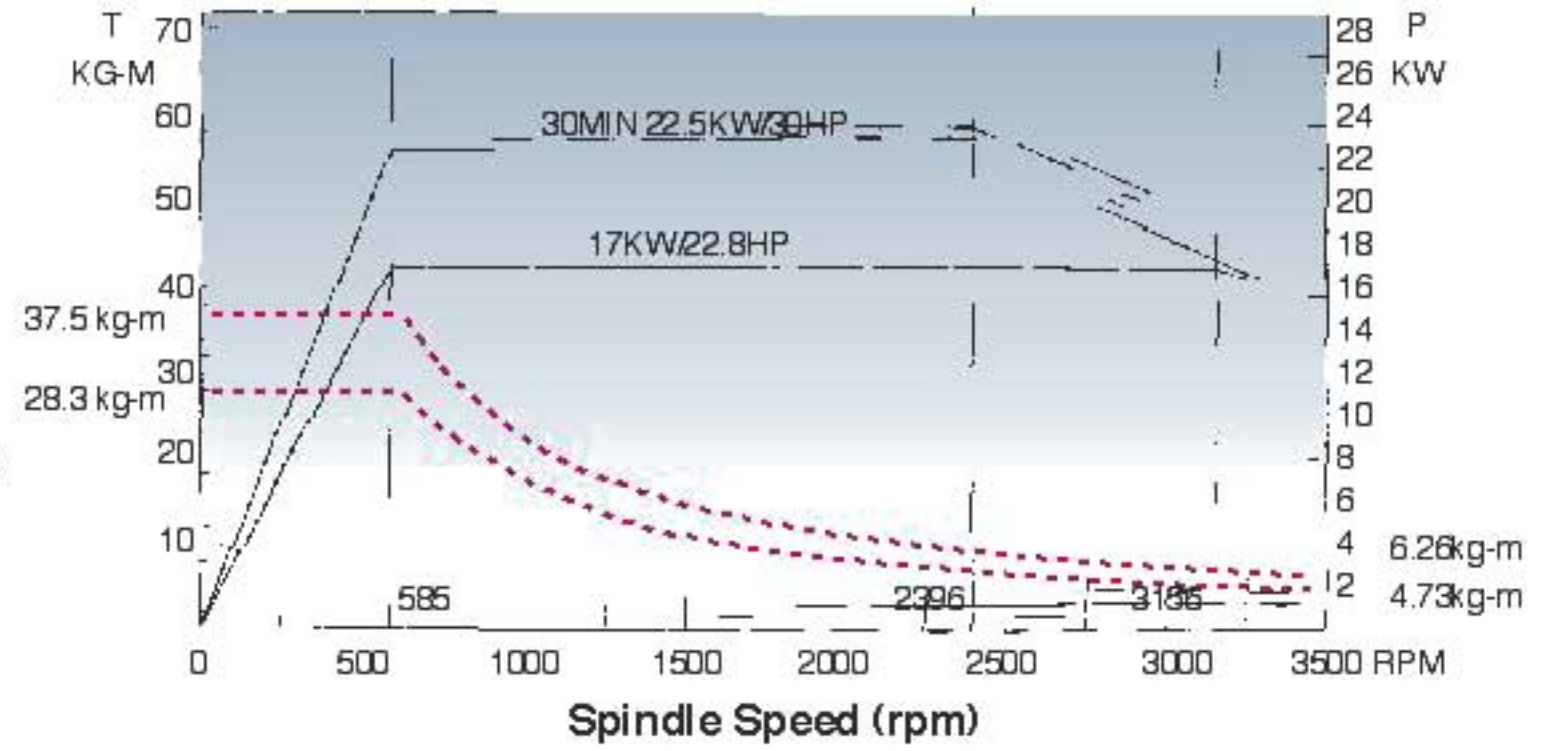
EAGLE 300MC

Fanuc



EAGLE 300

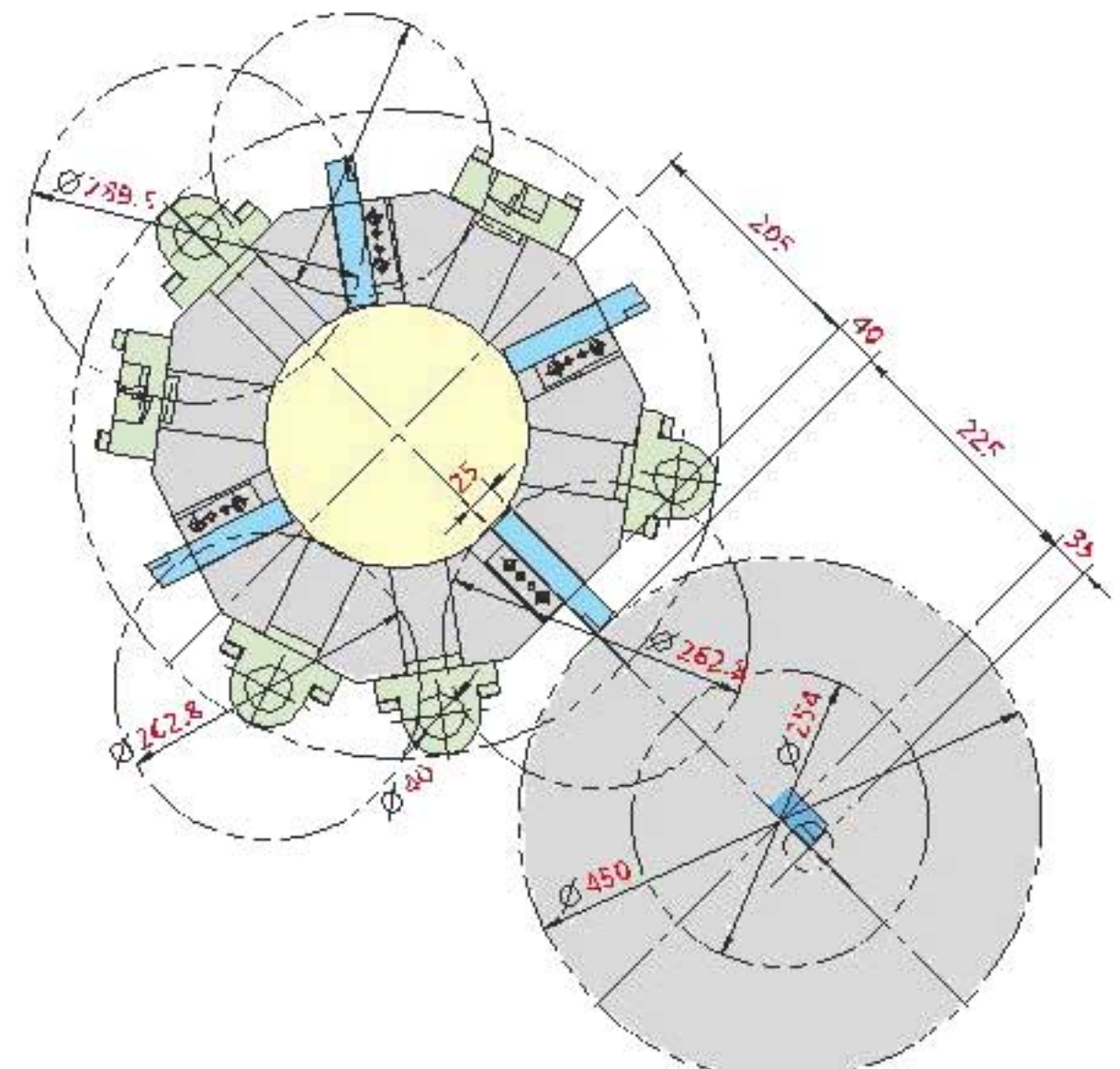
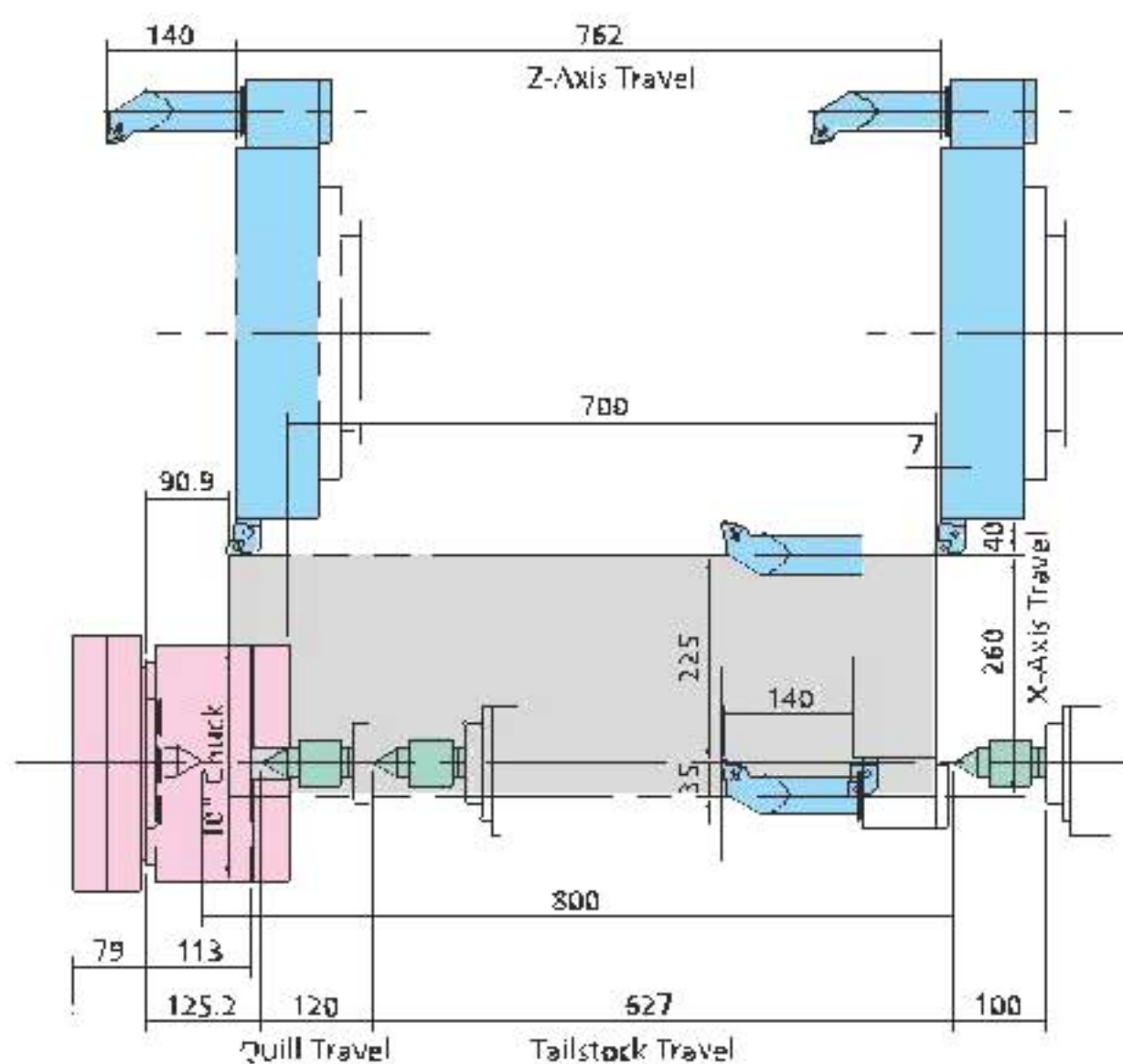
Siemens



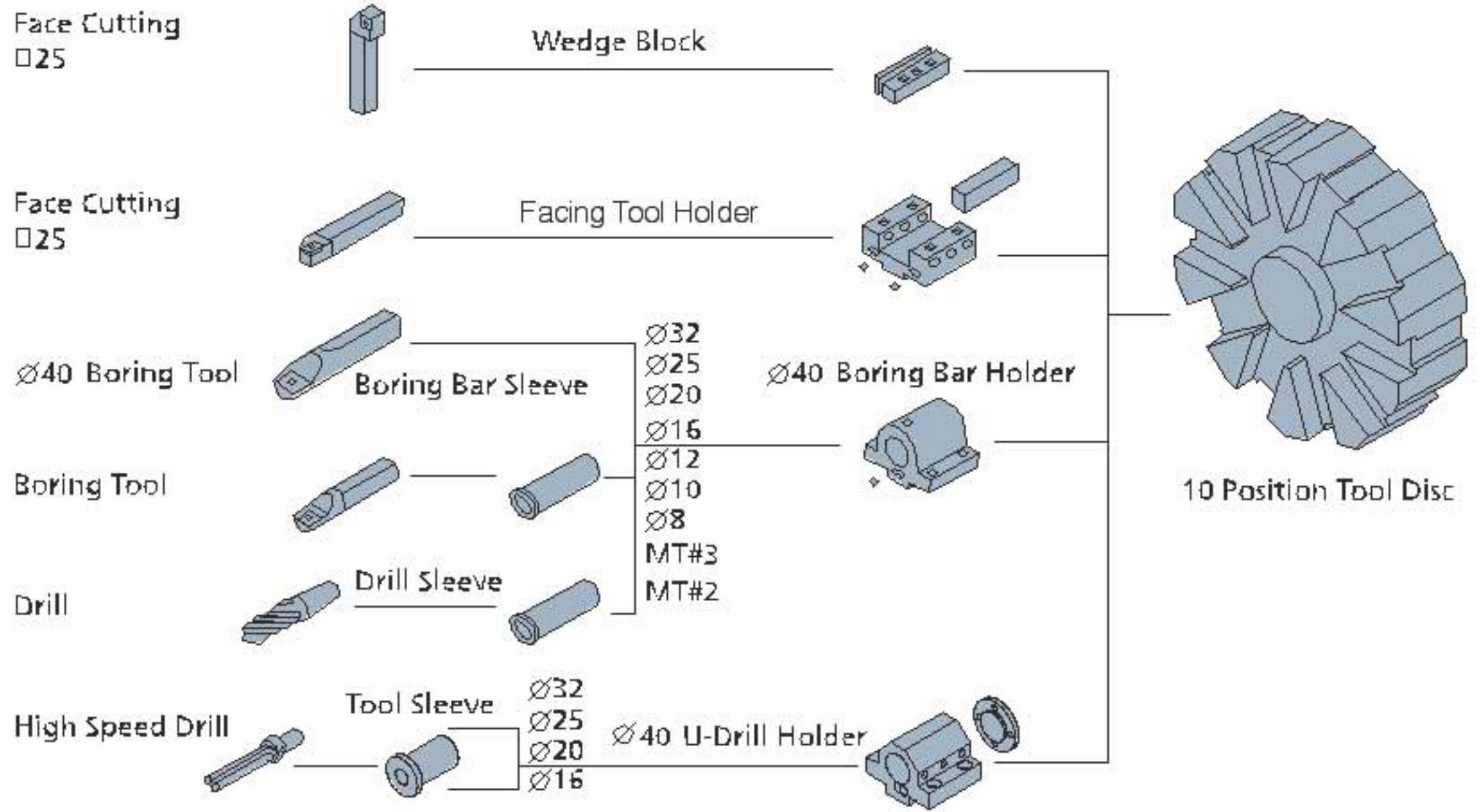
Working Capacity

unit : mm

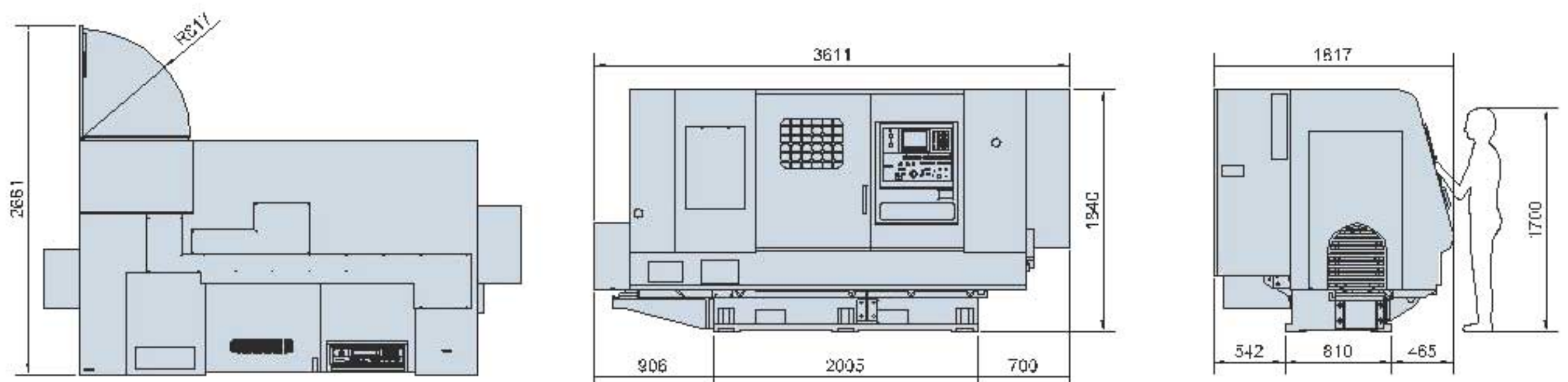
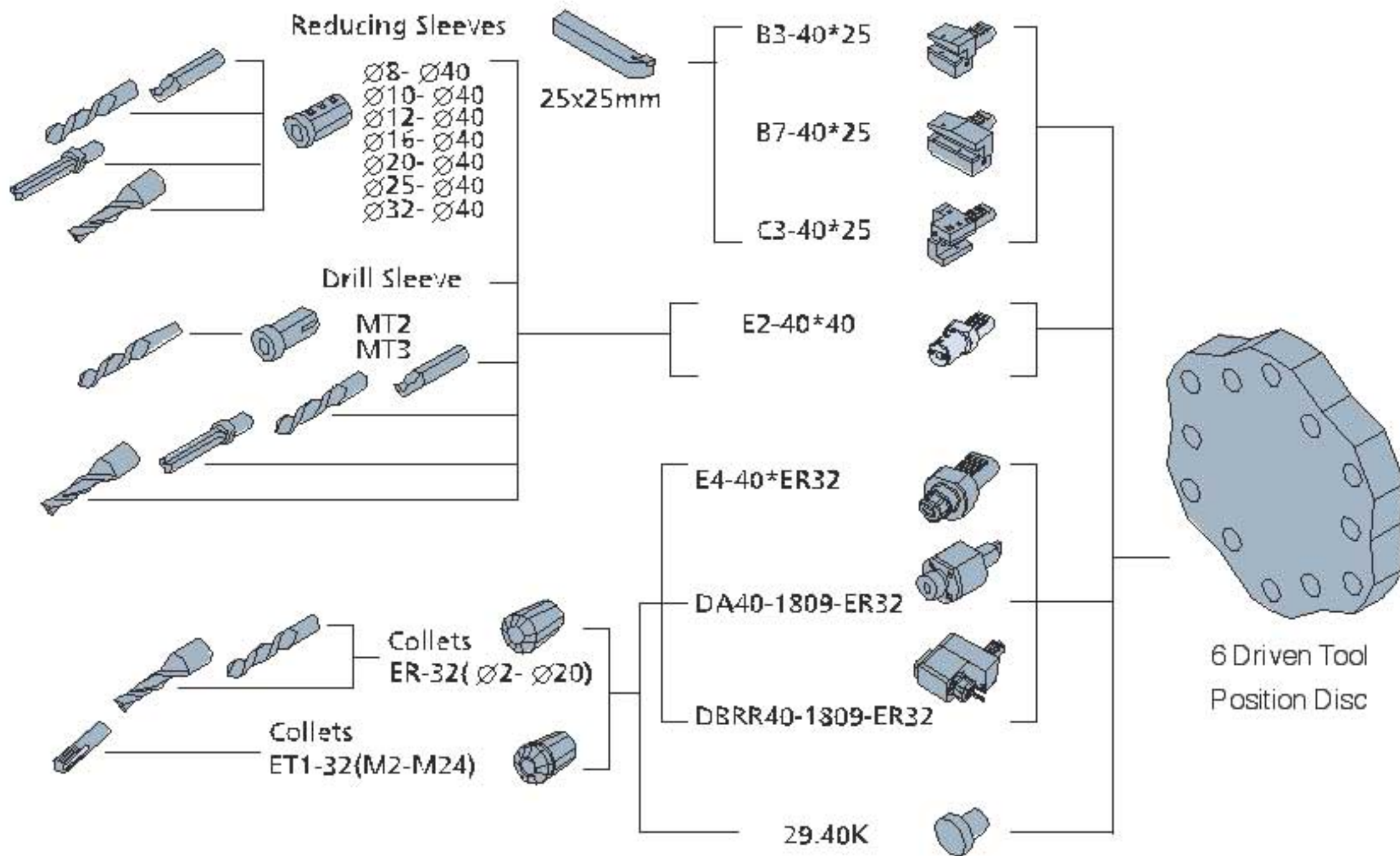
EAGLE 300 / EAGLE 300P



EAGLE 300 / EAGLE 300P



EAGLE 300MC



Model	EAGLE - 300	EAGLE - 300P	EAGLE - 300MC
Capacity			
Swing over bed	ø600mm	ø600mm	ø600mm
Max cutting diameter	ø450mm	ø450mm	ø370mm
Max cutting length	700mm	700mm	669mm
Headstock			
Spindle nose	ASA A2-8	ASA A2-8	ASA A2-8
Spindle bore diameter	ø88mm	ø88mm	ø88mm
Spindle speed	3500rpm	2500rpm	2500rpm
Spindle runout	0.003mm	0.003mm	0.003mm
Bar capacity	ø77mm	ø77mm	ø77mm
Travels			
X axis	260mm	260mm	260mm
Z axis	762mm	762mm	762mm
Feedrates			
Rapid traverse-X axis	20m/min	20m/min	20m/min
Rapid traverse-Z axis	24m/min	24m/min	24m/min
Accuracy			
Positioning-X axis	0.002mm	0.002mm	0.002mm
Positioning-Z axis	0.004mm	0.004mm	0.004mm
Repeatability-X axis	± 0.00125mm	± 0.00125mm	± 0.00125mm
Repeatability-Z axis	± 0.0025mm	± 0.0025mm	± 0.0025mm
Turret			
Type	hydraulic / servo(opt.)	hydraulic / servo(opt.)	servo
Number of tools	10 / 8 (opt.)	10	12
Tool shank	□ 25 x 25mm	□ 25 x 25mm	□ 25 x 25mm
Boring bar size	ø40mm	ø40mm	ø40mm
Index time (next tool)	0.3sec	0.3sec	0.3sec
Index time (180°)	1.5sec	1.5sec	0.9sec
Tailstock			
Tailstock body travel	627mm	627mm	627mm
Quill travel	120mm	120mm	120mm
Quill diameter	ø85mm	ø85mm	ø85mm
Quill taper hole	MT - 4	MT - 4	MT - 4
Quill activation	hydraulic	hydraulic	hydraulic
Tailstock body positioning	manual / auto (opt.)	manual / auto (opt.)	manual / auto (opt.)
General Specifications			
Floor space	3611x1817mm	3611x1817mm	3611x1817mm
Net weight (approx.)	5600kgs	5600kgs	5700kgs

• Specifications are subject to change without prior notice.

Standard Accessories

1. Boring bar bushes (6pcs)
(ø8, ø10, ø16, ø20, ø25, ø32) x O.D.40
2. Hydraulic 10-tool turret.
3. Face cutting holder 2 sets.
4. Boring bar holder 5 sets.
5. Hydraulic tailstock with MT No.4 quill.
6. Through bore 252mm hydraulic chuck.
7. A set of leveling bolts and pads.
8. End of program light.
9. Soft jaws 1 set.
10. Hard jaws 1 set.
11. Coolant system.
12. Grease lubrication.
13. Worklight.
14. Tool kit.

Optional Accessories

1. Parts catcher
2. Extra hard/soft jaws
3. Bar feed
4. Bar feed interface
5. High pressure coolant pump
6. Programmable tailstock body
7. Foot pedal for tailstock
8. Manual tool setting probe
9. Auto tool setting probe
10. Chip conveyor/chip bucket
11. 315mm power chuck
(8 station turret recommended)

Other Eagle Products

CNC Lathes



EAGLE - 100



EAGLE - 400

Vertical Machining Centres



EAGLE - 1000



EAGLE - 1300

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