

DUGARD

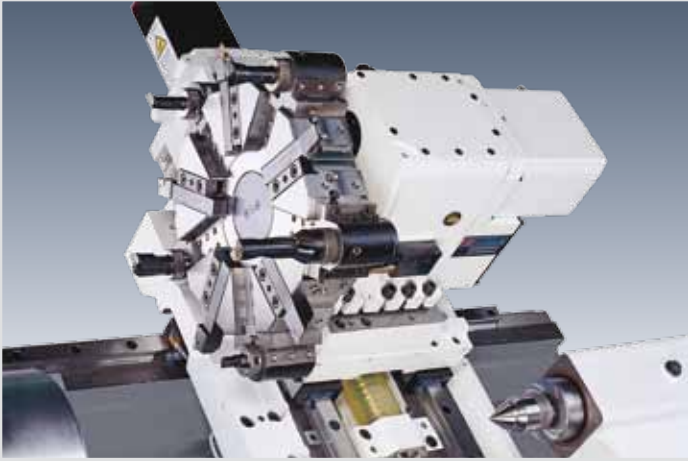
Machine Tools Since 1939

Dugard 200HT / 200MC Slant Bed, High Precision CNC Lathes



www.dugard.com

Dugard 200HT / 200MC



Rigid, High Precision Spindle Unit Dugard 200HT

The spindle runs in large diameter high precision angular contact ball bearings combined with cartridge spindle design for outstanding stability and precision

Headstock

Massive ribbed casting for maximum heat dissipation with large bed contact area for maximum rigidity

High Precision Spindle Unit Dugard 200MC

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



Hydraulic Tailstock

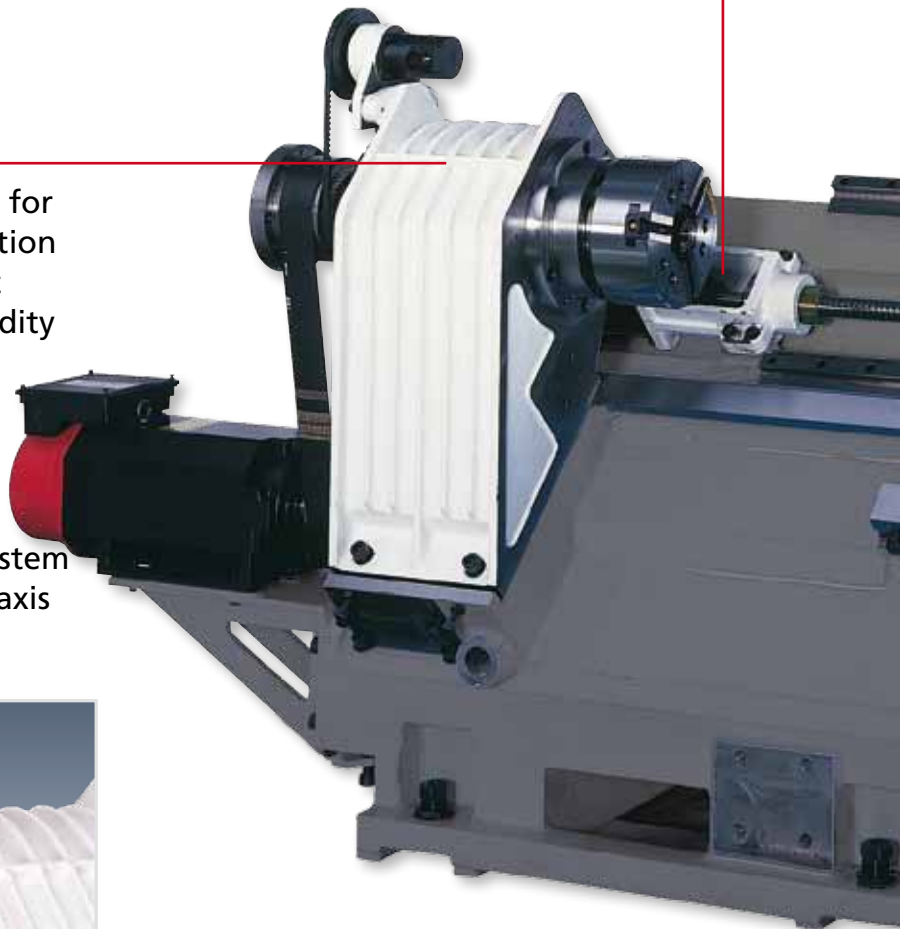
Quill can be controlled by programme or manually, auto sensing device to control pressure. Programmable body optional

Turret

High speed, heavy duty construction. Outstanding rigidity and accuracy

45° Slant Bed

Heavy duty cast construction allowing optimum chip clearance

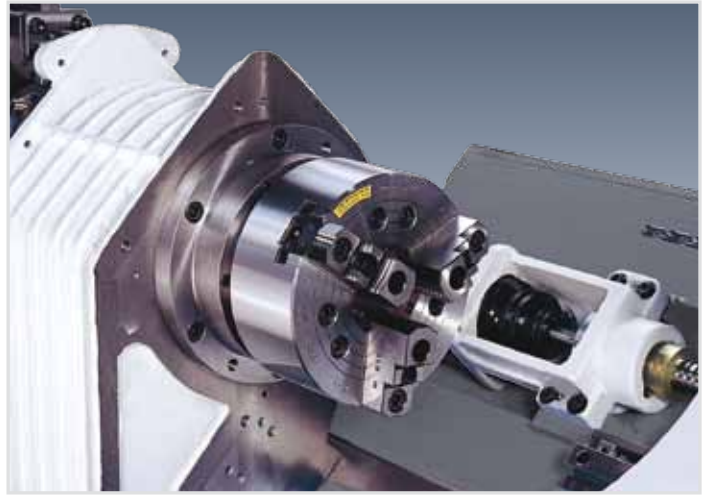
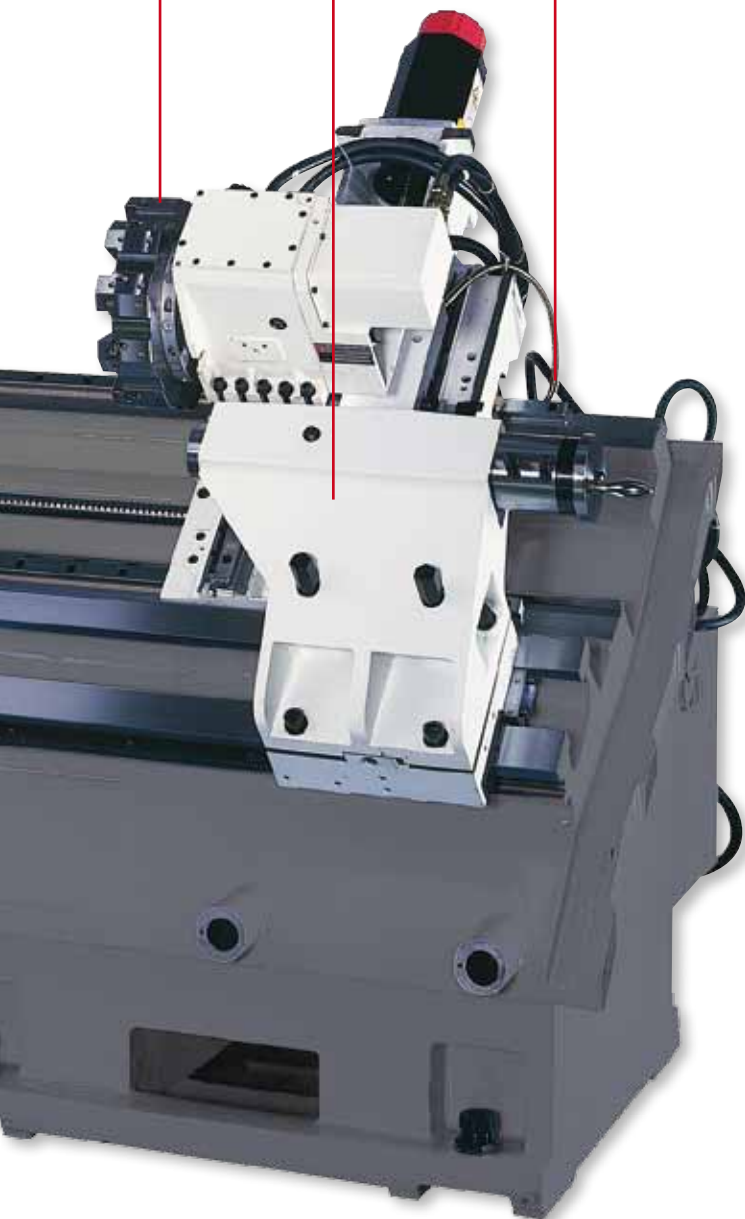


Options include

- 250mm 3 jaw hydraulic chuck
- Parts catcher
- Chip conveyor
- Bar feed

30m/min Rapids, X & Z Axes Linear Guideways

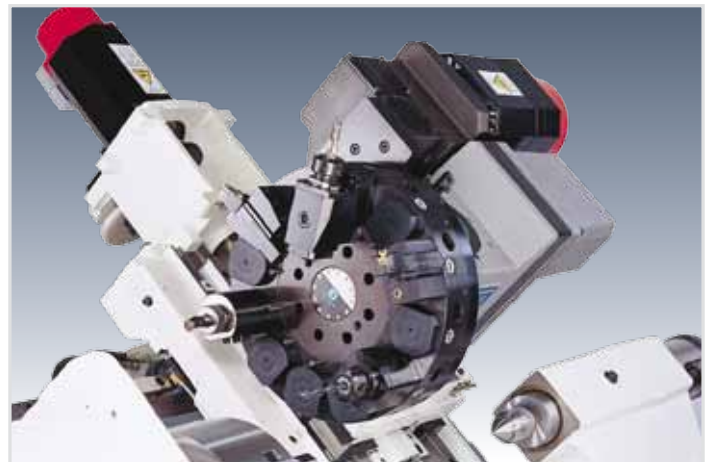
Linear guideways provide high speed rapid traverses, high rigidity and precise positioning



12 Tool Servo Driven Turret Dugard 200HT

High Speed, High Precision

The compact servo driven turret has a tool capacity for 12 tools. The extremely fast tool change from tool to tool is completed in only 0.3 seconds. Outstanding accuracy of repeatability up to 0.002mm



Servo Turret Dugard 200MC

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
- The extremely fast tool change from tool to tool is completed in only 0.2 seconds
- Versatile functions include drilling, milling, turning, tapping and end milling that greatly upgrades machining efficiency

Efficient Chip Removal System

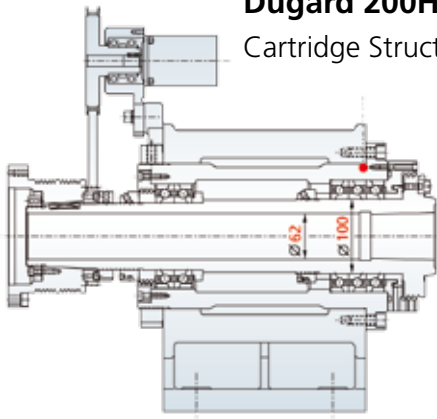
Pull out swarf and coolant tray keeps downtime to a minimum and allows for easy integration of a chip conveyor

Dugard 200HT / 200MC

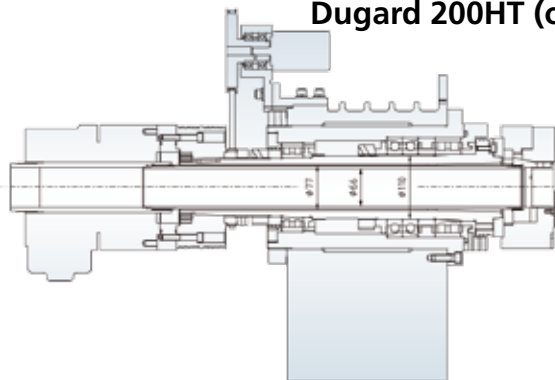
Spindle Structure

Dugard 200HT

Cartridge Structure Design

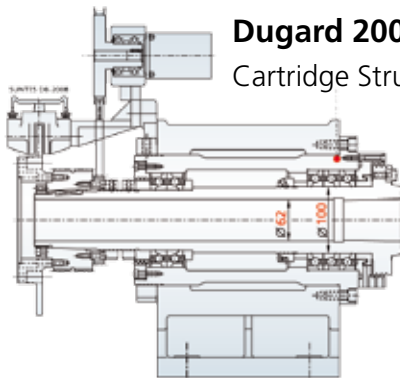


Dugard 200HT (option)



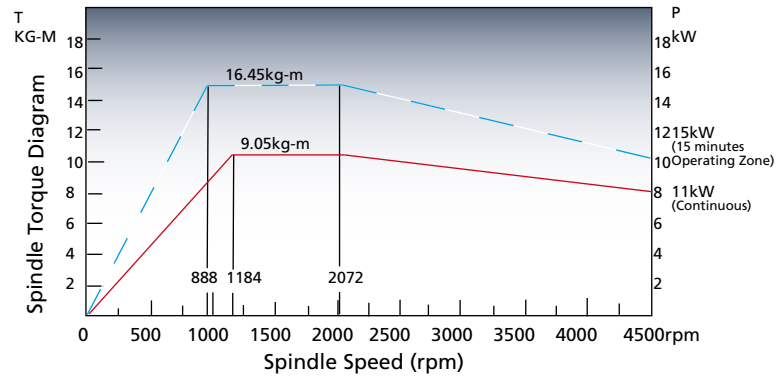
Dugard 200MC

Cartridge Structure Design

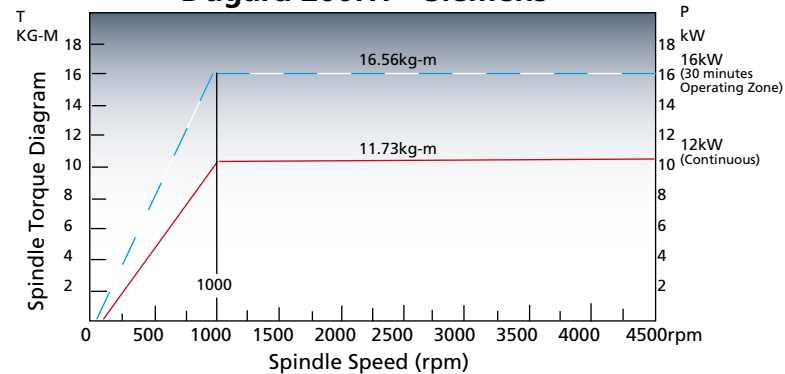


Spindle Motor

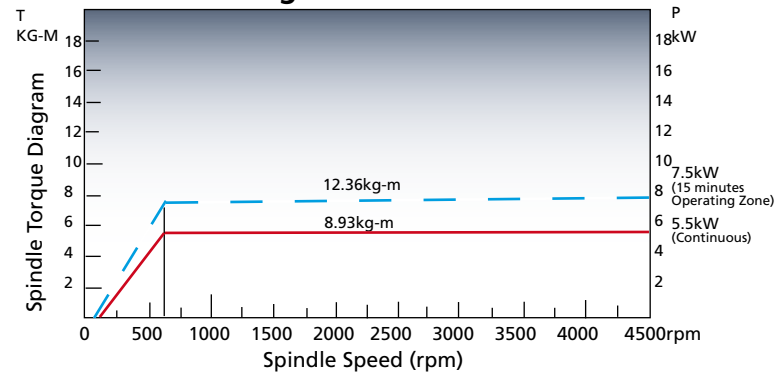
Dugard 200HT - Fanuc



Dugard 200HT - Siemens



Dugard 200MC - Fanuc



State of the Art CNC Controls - Makes turning a fast and easy operation

Standard Control



Fanuc 0iTD

- 8.4" TFT LCD colour monitor
- New D series high speed
- PC flash card storage
- Industry standard programming

Optional Control



Siemens 828D

- 10.4" TFT LCD colour monitor
- Shopmill conversational programming
- Super high speed
- USB/PC card storage

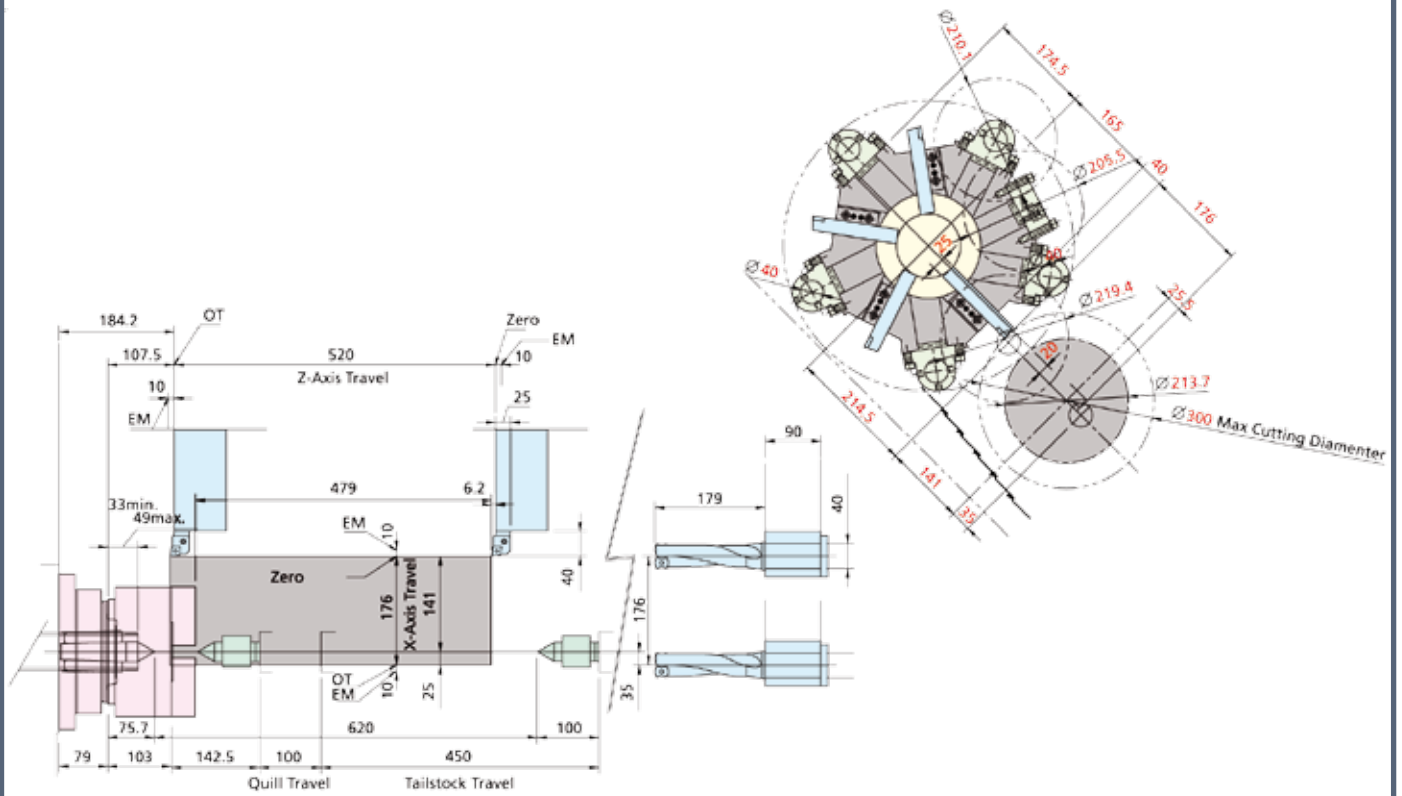


Various interfaces for programme saving, loading and software updating including:

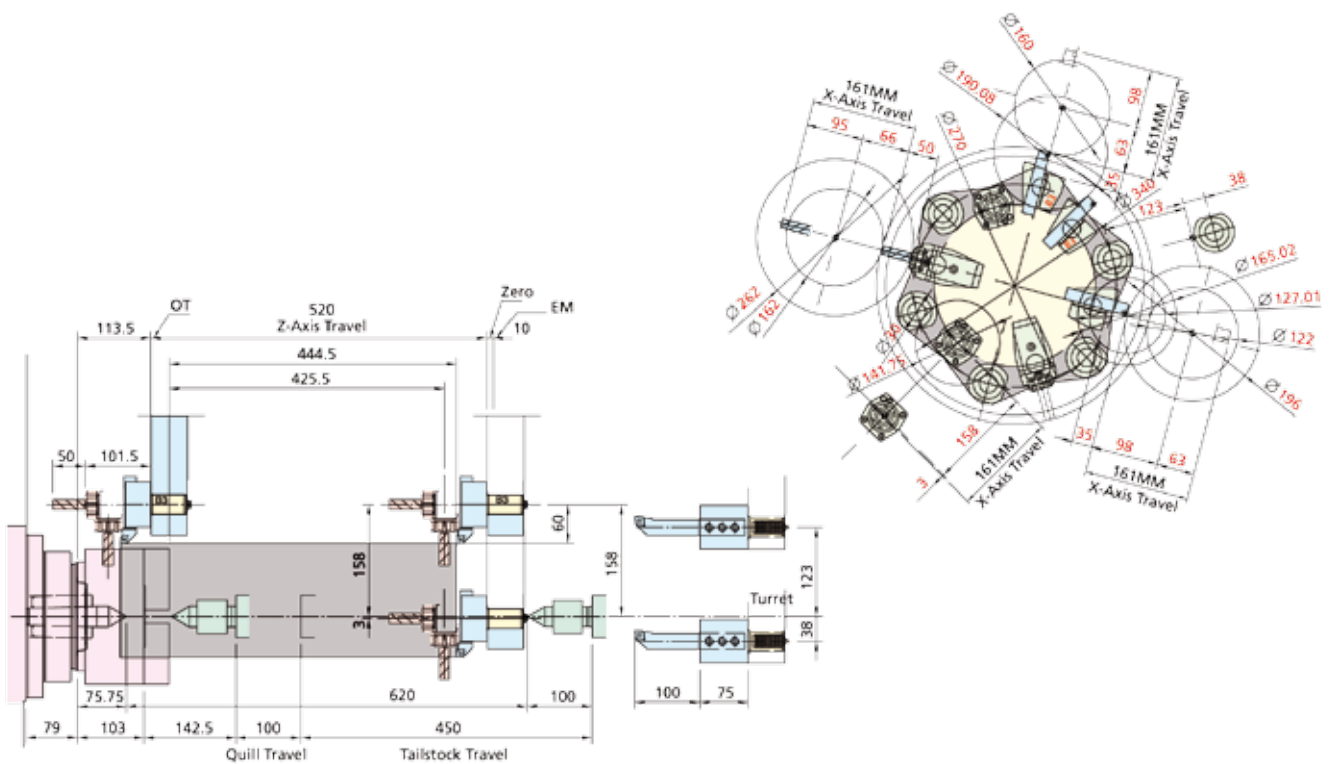


- CF memory card
- RS-232C
- Ethernet

Working Capacity - Dugard 200HT

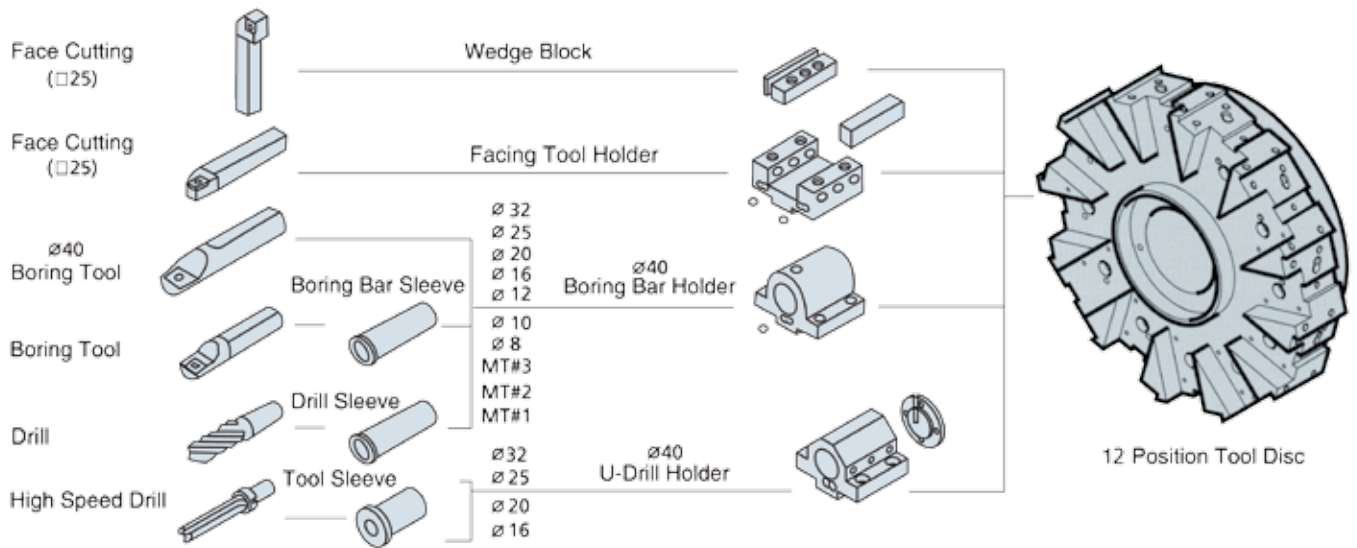


Working Capacity - Dugard 200MC

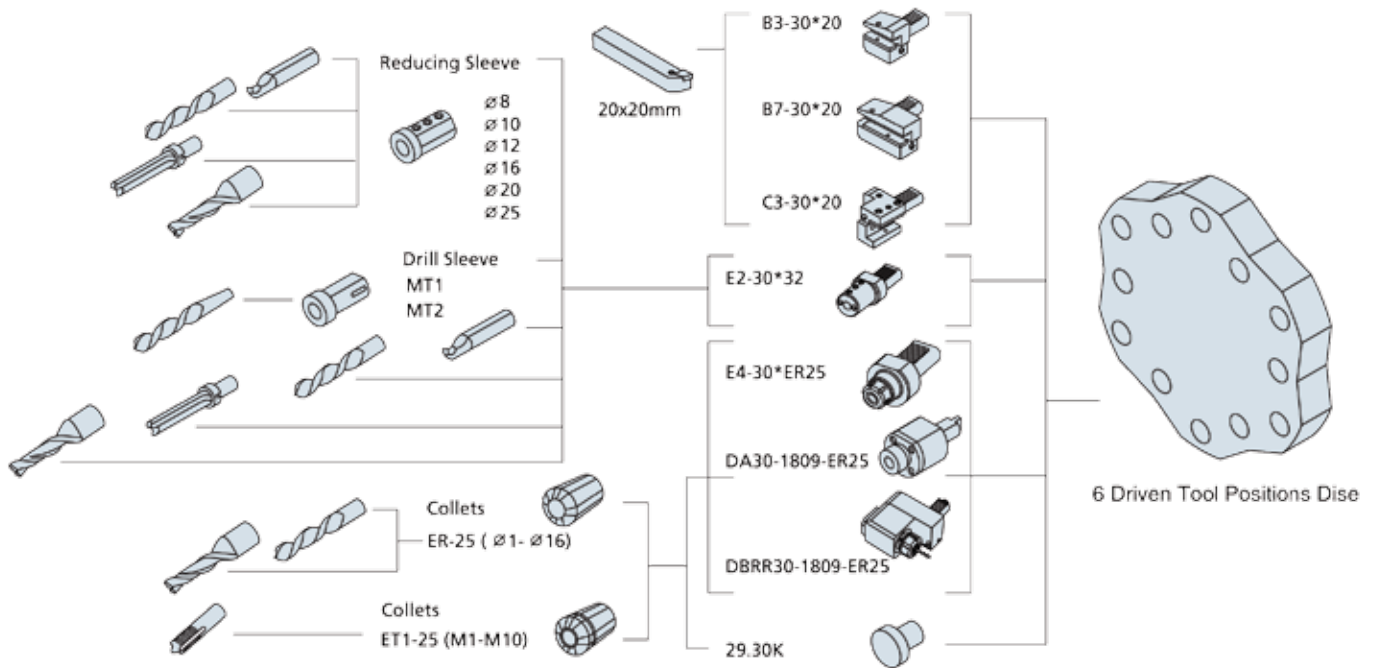


Dugard 200HT / 200MC

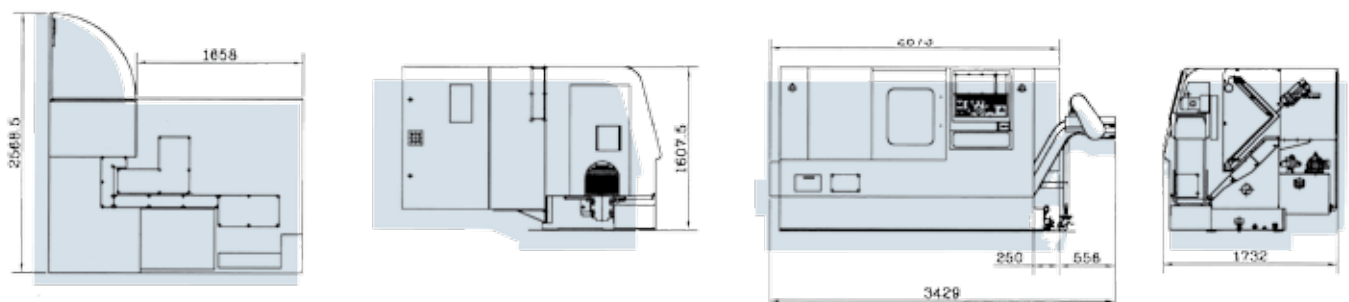
Dugard 200HT Tooling System



Dugard 200MC Tooling System



Machine Dimensions



Specification	Dugard 200HT	Dugard 200MC
Capacity		
Swing over bed	Ø470mm	Ø470mm
Max cutting diameter	Ø300mm	Ø196mm
Max cutting length	479mm	445mm
Headstock		
Spindle power	15kW	15kW
Spindle nose	ASA A2-6	ASA A2-6
Spindle speed	4500rpm	4500rpm
Spindle runout	0.003mm	0.003mm
Bar capacity	Ø65mm	Ø52mm
Travels		
X axis	176mm	161mm
Z axis	520mm	520mm
Feedrates		
Rapid traverse X axis	30m/min	30m/min
Rapid traverse Z axis	30m/min	30m/min
Accuracy		
Positioning X axis	0.002mm	0.002mm
Positioning Z axis	0.003mm	0.002mm
Repeatability X axis	±0.00125mm	
Repeatability Z axis	±0.0025mm	
Turret		
Type	servo	servo
Number of tools	12	12 - VDI 30
Tool shank	□25 x 25mm	□20 x 20mm
Boring bar size	Ø40mm	Ø32mm
Index time (next tool)	0.3 sec	0.2 sec
Index time (180°)	1.1 sec	0.7 sec
Tailstock		
Tailstock body travel	450mm	450mm
Quill travel	100mm	100mm
Quill diameter	Ø75mm	Ø75mm
Quill taper hole	MT - 4	MT - 4
Quill activation	hydraulic	hydraulic
Tailstock body positioning	manual / auto (opt)	manual / auto (opt)
General Specifications		
Floor space	2873 x 1732mm	2873 x 1732mm
Net weight (approx)	3900kg	3950kg

*Specifications are subject to change without prior notice

Standard Accessories

- | | |
|----------------------------------------------------------------------|------------------------|
| 1. Boring bar bushes (6pcs)
(Ø8, Ø10, Ø12, Ø16, Ø20, Ø25) x OD 32 | 11. Coolant system |
| 2. Servo 10 tool turret | 12. Grease lubrication |
| 3. Face cutting holder 2 sets | 13. Worklight |
| 4. Boring bar holder 5 sets | 14. Tool kit |
| 5. Hydraulic tailstock with MT #4 quill | |
| 6. Through bore 8" hydraulic chuck | |
| 7. Set of leveling bolts and pads | |
| 8. End of programme light | |
| 9. 1 set soft jaws | |
| 10. 1 set hard jaws | |

Optional Accessories

1. Live tooling (C axis)
2. Parts catcher
3. Extra hard/soft jaws
4. Bar feed
5. Bar feed interface
6. High pressure coolant pump
7. Programmable tailstock body
8. Foot pedal for tailstock
9. Manual tool setting probe
10. Chip conveyor/chip bin
11. VDI 30 turret

European headquarters for Dugard CNC Machine Tools

DUGARD.com

www.dugard.com email: sales@dugard.co.uk tel: +44 (0)1273 732286