

STANDARD FEATURES

- AC spindle & axes drives
- Precision Linear motion guideways
- Bi-directional tool turret
- Tailstock with live center
- Automatic centralized oil lubrication
- Hydraulic power chuck Ø135 mm
- AC unit for electrical Cabinet
- Built-in lighting system
- Coolant system
- Drain line oil cooler
- Basic hydraulic system
- OD turning tool holder (8 nos)
- Boring bar holder (4 nos)
- Facing tool holder (2 nos)
- Set of sleeves

OPTIONAL FEATURES

- Chip Conveyor - Rear mounting only
- Parts catcher
- Bar Feeder
- Voltage Stabiliser
- Tool life management software
- TPM trak productivity monitoring system



SPECIFICATIONS

VANTAGE 800 MY

DESCRIPTION	
Control System	Fanuc Oi-TD
Capacity	
Swing Over Bed	640 mm
Swing over carriage	400 mm
Maximum Turning Dia. ²	400 mm
Maximum Turning Length ^{1,2}	800 mm
Distance between centres ¹	1025 mm
Spindle	
Spindle Size / Nose	A2-8
Max.Bar Capacity ³	74 mm
Bore through Spindle	86 mm
Max.Spindle Speed ³	3000 rpm
Spindle Motor Power (continuous)	11 kW
Spindle Motor Power (30 min)	15 kW
Full Power Range	375-3000 rpm
Standard chuck size	250 mm
Axes	
X-Axis stroke	300 mm
X-Axis Rapid	20 m/min
X-Axis Guideways	Hardened and ground box type
Z-Axis stroke	800 mm
Z-Axis rapid	20 m/min
Z-Axis Guideways	Hardened and ground box type
Y-Axis Stroke	+55/-75 mm
Y-Axis rapid	10 m/min
Y-Axis Guideways	Hardened and ground box type
Tooling	
Turret Type	VDI 40
Rotary tool motor power	4.5 kW
No of Stations	12
Max.Boring Bar Dia	40 mm
OD Turning Tool Size	25 x 25 mm
TailStock	
TailStock Base Travel	800 mm
TailStock Quill Dia	80 mm
TailStock Quill Travel	120 mm
TailStock Quill Taper	MT-4
Coolant Tank Capacity	155 ltr
Hydraulic System	
Hydraulic Pump Capacity	14 lpm
Hydraulic Power Pack Tank Capacity	45 ltr
Over all Dimensions (LxWxH)	3690 x 1900 x 2500 mm
Over all Weight (without packing)	-6000 kg

1 Refer machining range diagram, 2 Refer Interference diagram

3 With appropriate workholding

Note:

Owing to continuous up-gradation of our products, the specification may change and to be reconfirmed at the time of ordering.

Features shown may not be part of the standard equipment.

Marketed and Serviced by:

Micromatic

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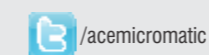
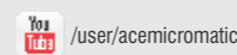
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Bed

Major structural components have been combined into one solid platform. True slant bed design provides the most rigid foundation possible for headstock, turret tailstock.

Ribbing are reinforced to the optimum and to make it one piece bed structure. Mechanical rigidity has been increased substantially thereby machine is capable of performing heavy-duty turning / milling / drilling and maintain accuracy.



Spindle:

The cartridge type spindle is assembled and tested in a controlled clean room environment. The bearing configuration gives very high stiffness to the spindle assembly in both axial and radial directions. The bearings are grease lubricated for life. A high torque spindle motor provides power for heavy stock removal.



Axes

X & Y axes are hardened and ground integral box cast iron ways. These guideways are extra wide and are precision machined for maximum strength and extra rigidity, which is required for heavy duty and interrupted turning applications.

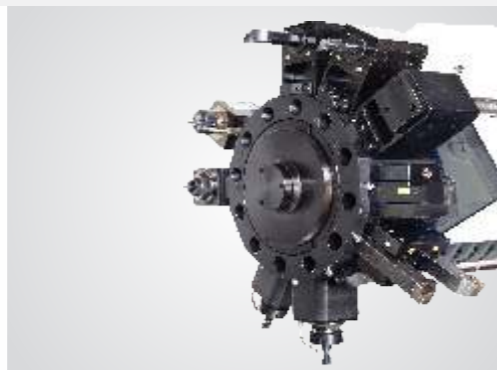
Z-axis and Tailstock guide are bolted on. Hardened and ground box guideways. Guideways are ground on high precision slideway grinder for improved straightness.

Slide ways are bonded with "Turcite" to eliminate stick-slip, minimize wear and maintain long term accuracy. Rapid rates are 20m/min on X & Z axes. Rapid rate on Y axis is 10m/min.



Turret

Bi-directional tool turret indexes in either direction for shortest indexing time. It is completely enclosed & robust in mechanism with oil bath lubrication. Three piece, Hirth coupling allows the tool disc to be indexed without lifting. It ensures repeatability, positioning accuracy and rigidity.



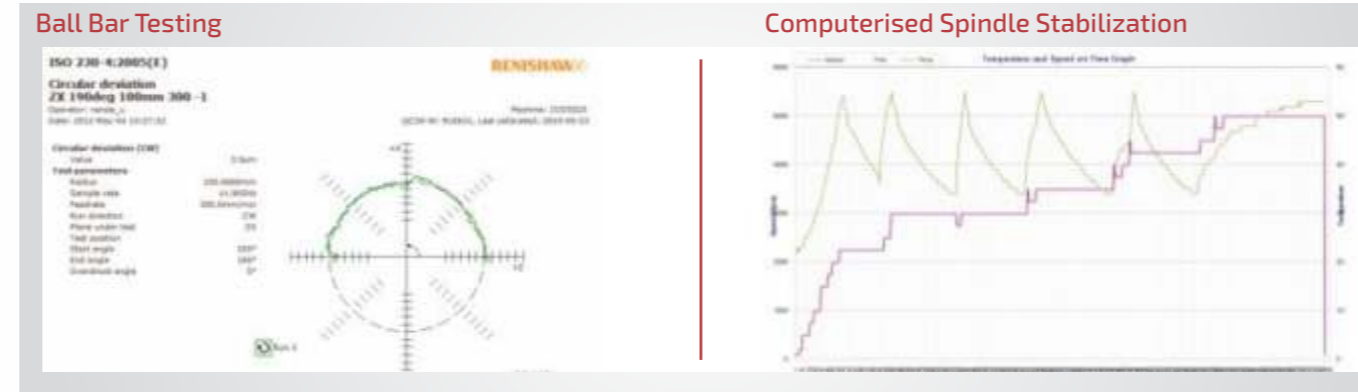
Tailstock:

Precision hardened and precision ground ball screws ensure the highest accuracy and durability. Pre-tensioning on all axes minimizes thermal distortion.

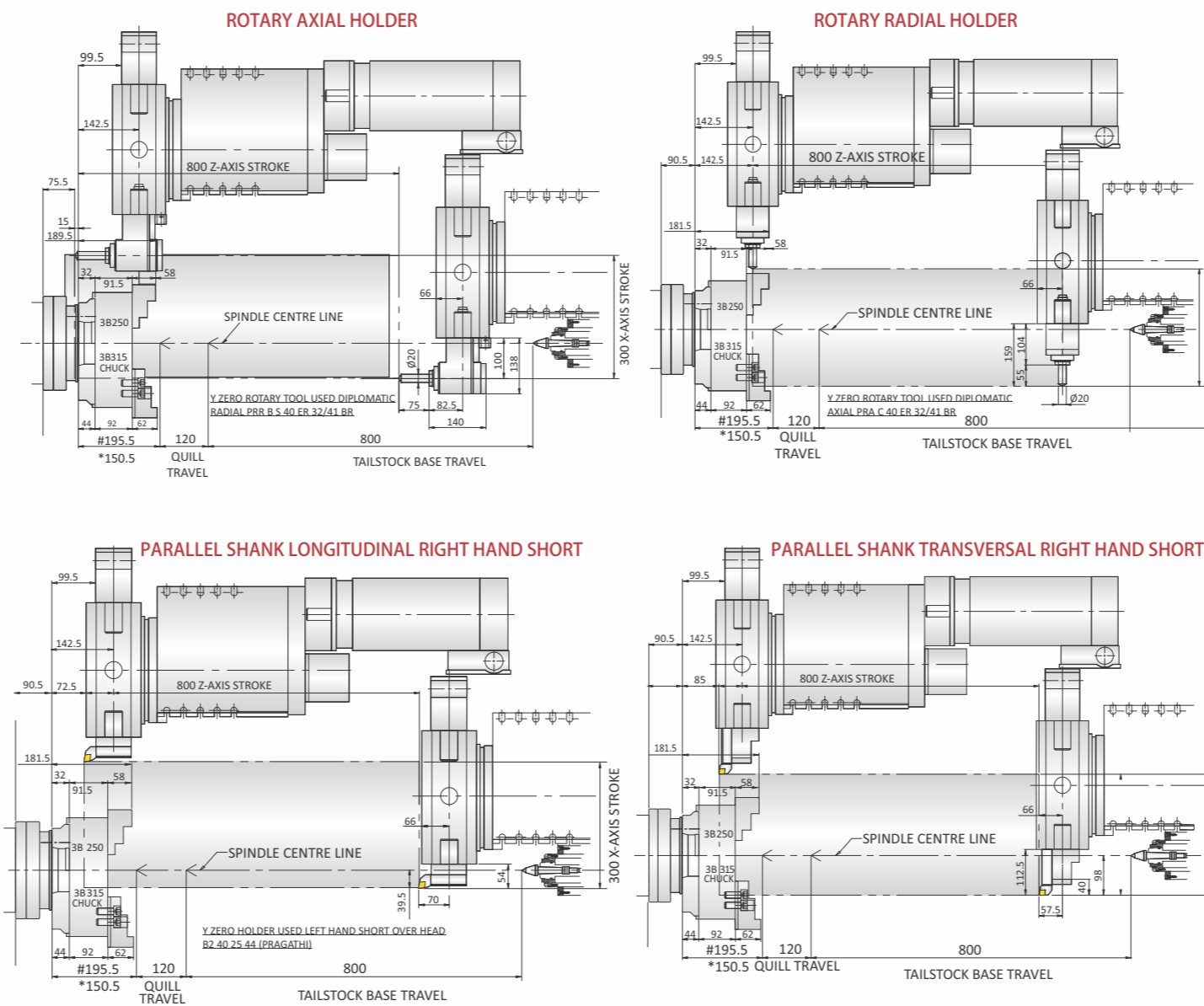


SPINDLE TESTING

All spindle units undergo stringent testing in a controlled environment, including thermal stabilisation to ensure guaranteed performance. Temperature of spindle on running condition is monitored to ensure optimal bearing longevity by stabilising it thermally.



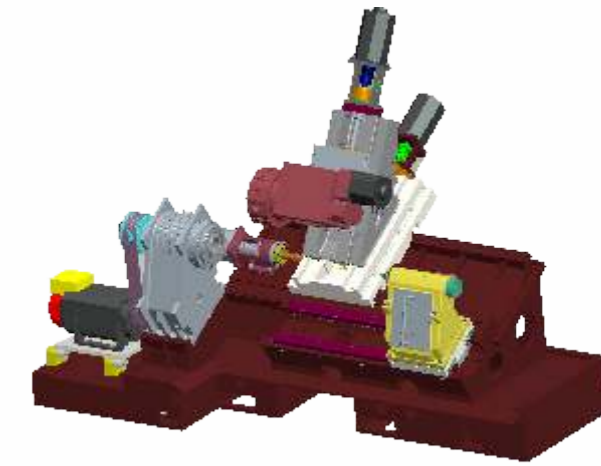
MACHINING RANGE



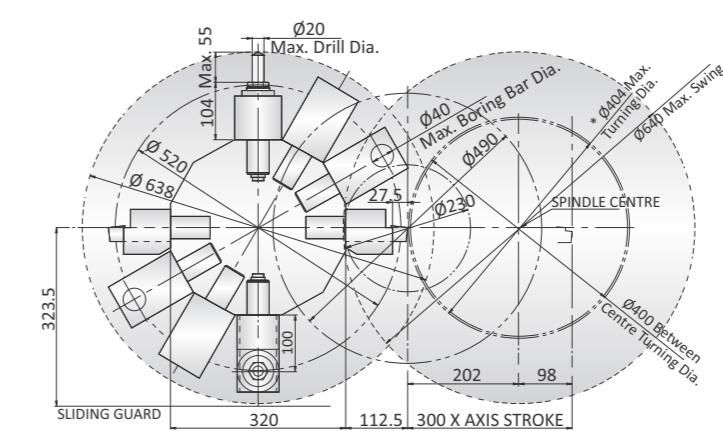
BUILT IN TAILSTOCK CENTRE
* FOR ADD ON TYPE TAILSTOCK CENTRE

MACHINE HIGHLIGHTS

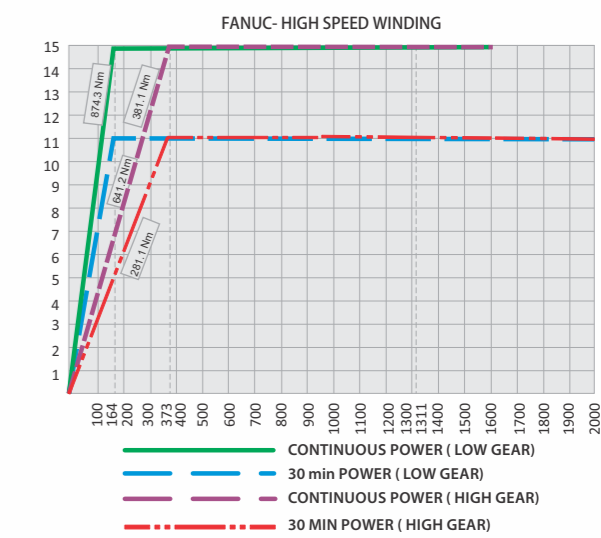
- Turnmill version with driven tools turret
- 30 degree true slant bed
- X axis is with integral hardened and ground guide ways.
- Z axis is with box type hardened and ground guide ways.
- Large turning diameter up to 400 mm (With standard Turret).
- Higher swing up to 640 mm



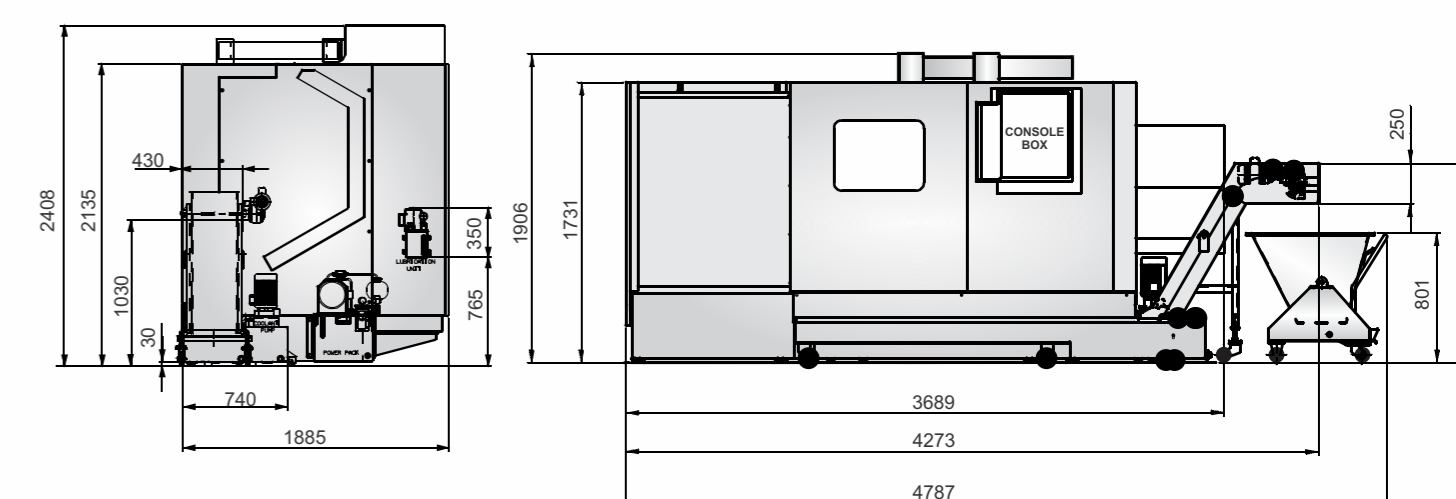
INTERFERENCE DIAGRAM



POWER TORQUE DIAGRAM



OVERALL VIEW



Note: Height pads of 20 mm are shown in the figure.
Height pads are also available in 100, 150 and 200 mm size.