Box Way Series
CNC Lathes
FBL-200/A/L
FBL-300



FBL-200/A/L

- Specially designed for processing auto parts and casting components.
- Focusing upon intermittent cutting requirements.

FBL-300

- Sturdy box way model capable of low speed heavy duty machining.
- Armed with latest FANUC Oi control and standard LCD screen which generates high-resolution graphics and functions to achieve best possible operation environment.
- High rigidity box way with scrapped slide way and precision oil network design for superb transmission efficiency.
- 45-degree slant machine body structure squarely with low weight center for enhanced machining accuracy.

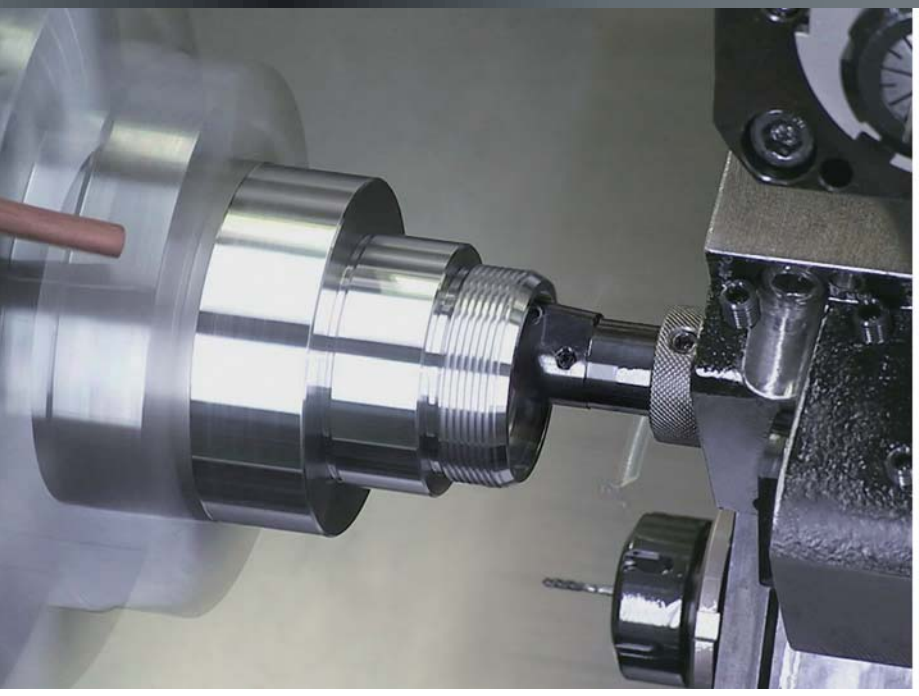
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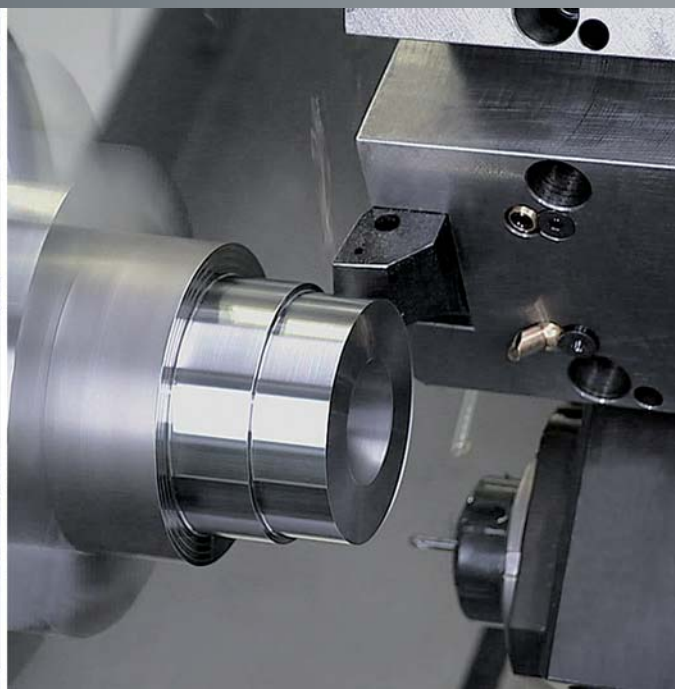
02 Controller

03 FBL-200 Series Construction & Spindle Torque

04 FBL-200/A/L System Diagram

05 FBL-200/A/L System Diagram

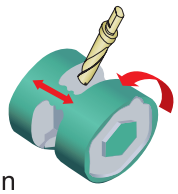




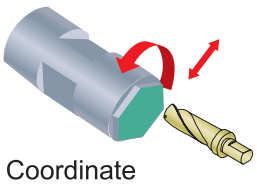
Controller

FANUC

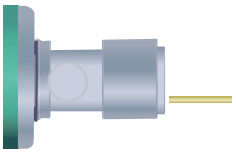




Cylindrical Interpolation



Polar Coordinate Interpolation (For C axis)



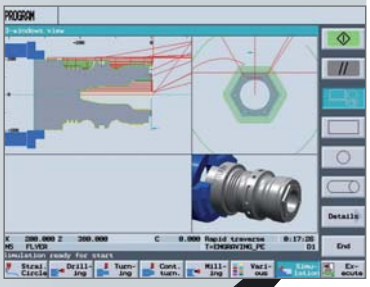
Manual Guide i (opt.)
Conversational editing with 3D simulation available.

SIEMENS



Uses a 10.4" screen for easy operation. Optional Shop Turn function with integrated operating system. Finish programming without having to use G code.

- 2 window view dynamic simulation
- 3D finished part simulation (opt.)
- 3D section view (opt.)



06 FBL-300 Series Construction & Spindle Torque

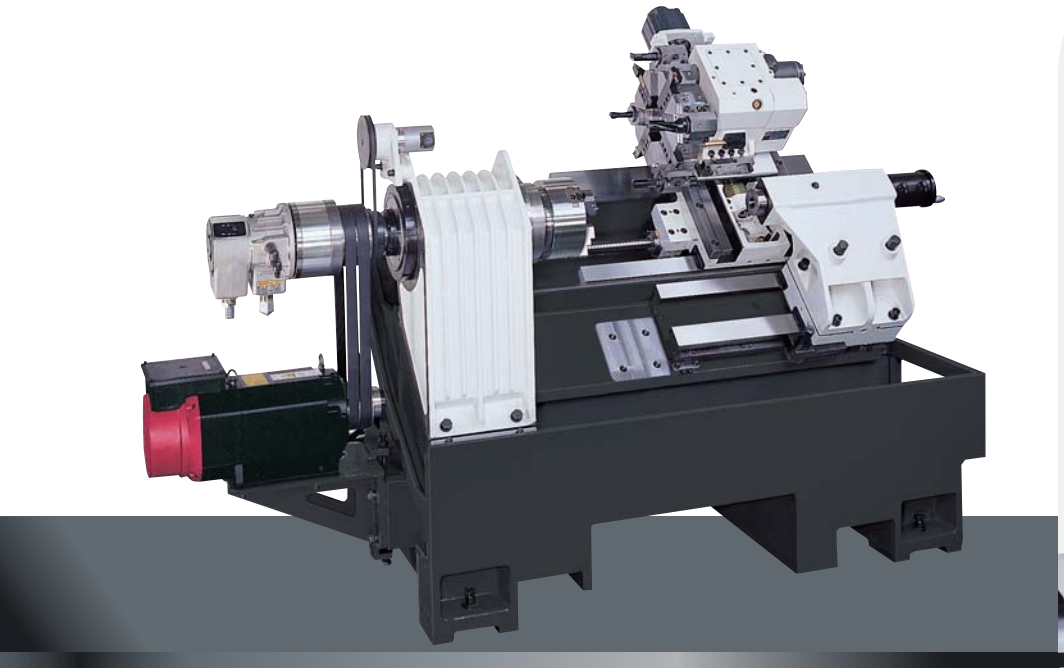
07 FBL-300 System Diagram

09 Specifications

10 Standard & Optional Accessories

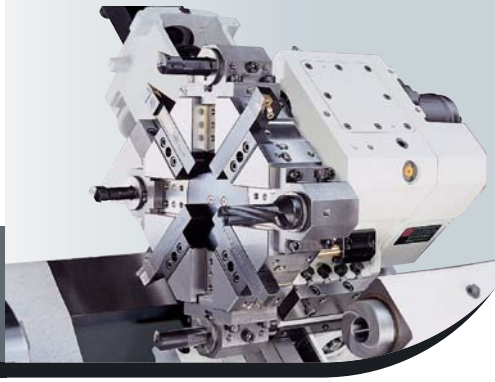


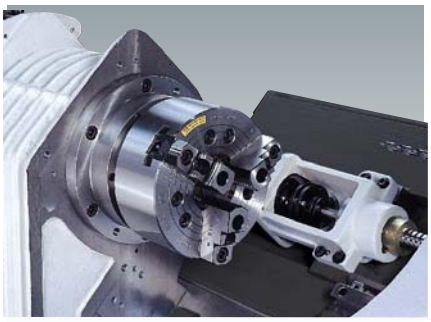
FBL-200/A/L Series



High Speed and High Precision Hydraulic Cam Turret

High speed and high precision hydraulic cam tool turret holding 8 tools, with tool change in 0.3 second, repeatability accuracy up to 0.002mm.



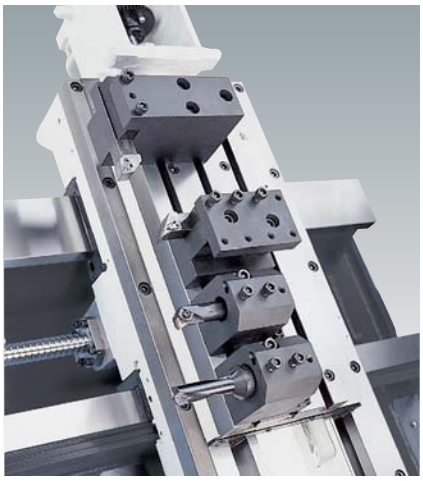


High Precision Spindle System

Spindle with ø100mm large diameter angular bearings for heavy-duty high precision machining.



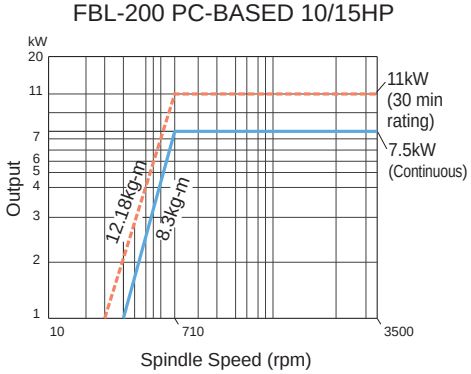
Chip removal outlet may be arranged at rear or side part of the machine. Coolant tank may be pulled out to clean for compact factory space usage.



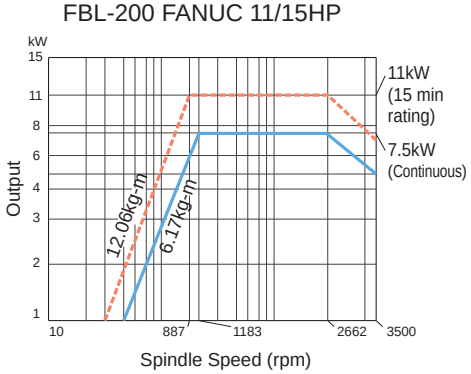
Gang type tool base features efficiency and added value.

Spindle Torque Diagram

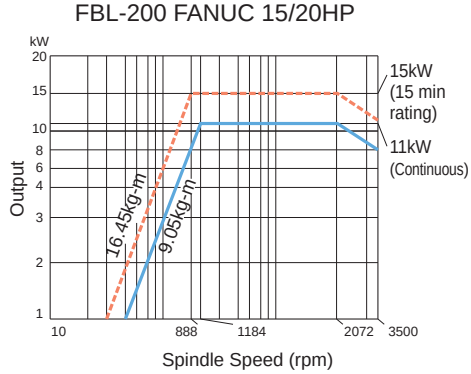
FBL-200 PC-BASED 10/15HP



FBL-200 FANUC 11/15HP

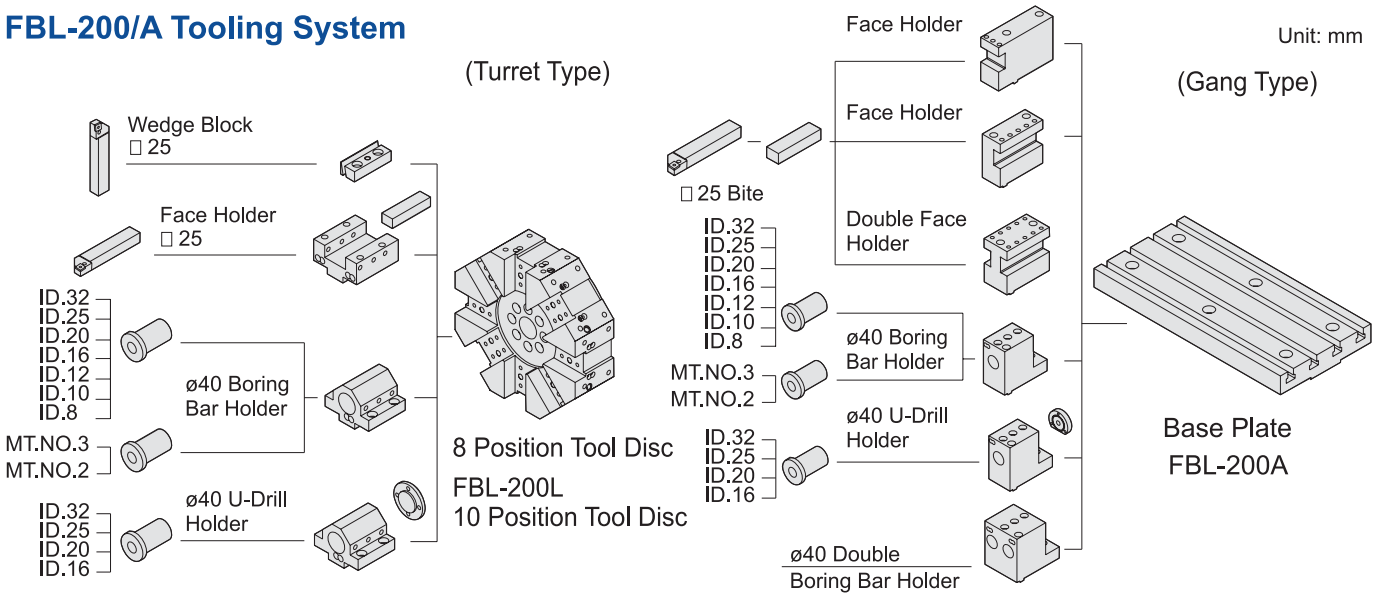


FBL-200 FANUC 15/20HP

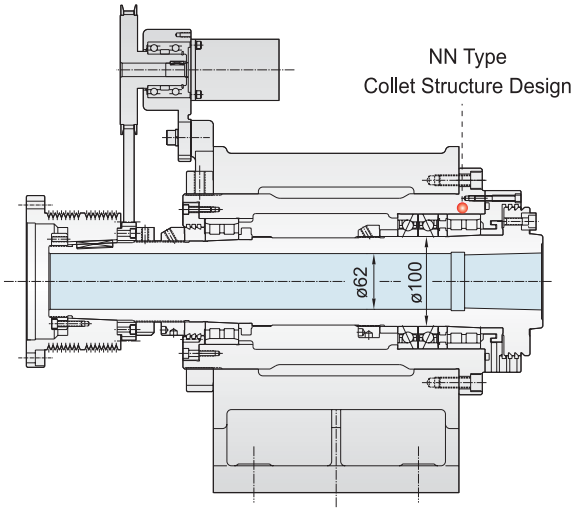


FBL-200/A/L System Diagram

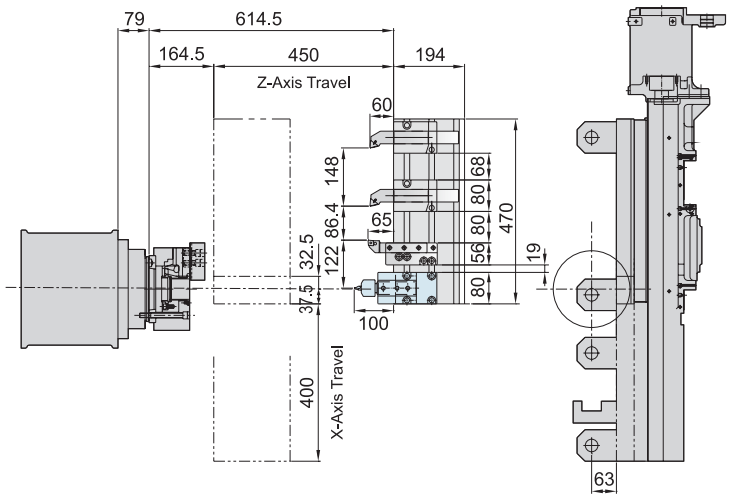
FBL-200/A Tooling System



FBL-200/A/L Spindle Structure



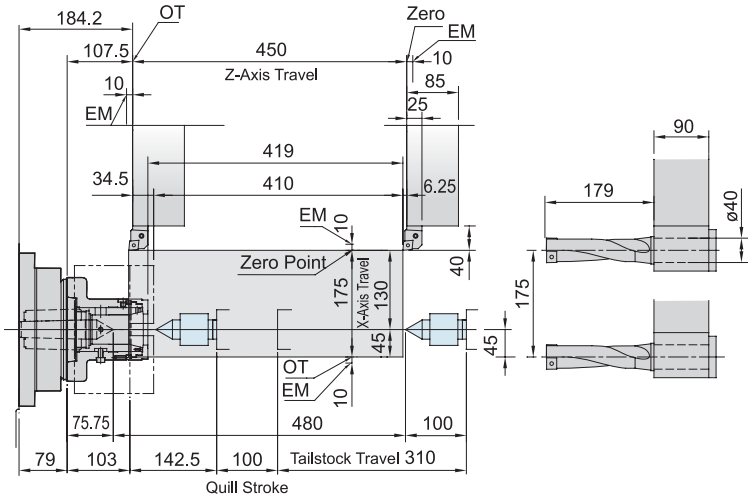
FBL-200A Machining Area Gang Type



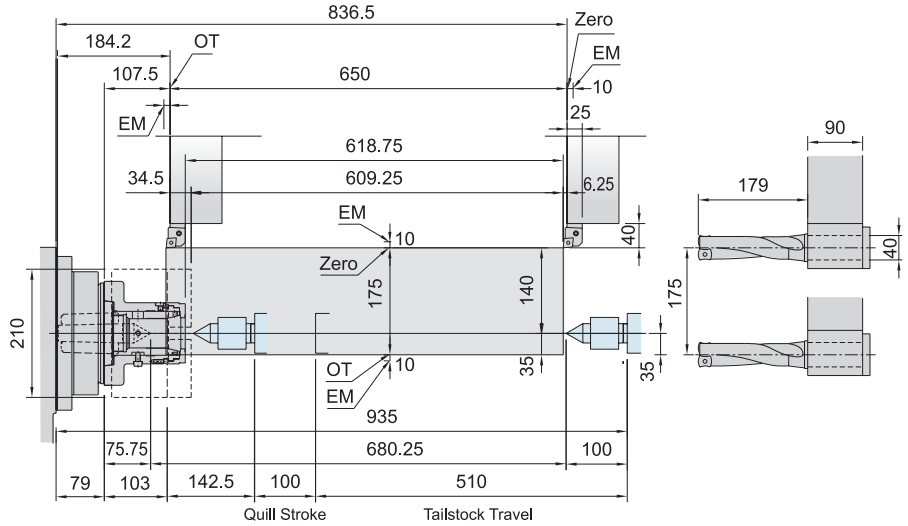
FBL-200/A/L System Diagram

FBL-200 Machining Area Turret Type

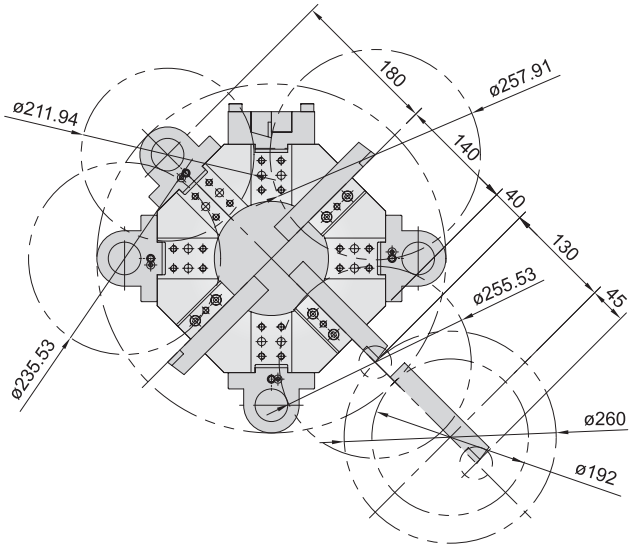
Unit: mm



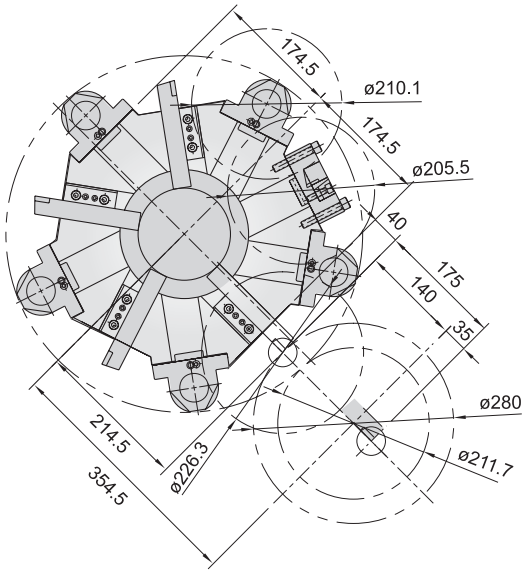
FBL-200L Machining Area



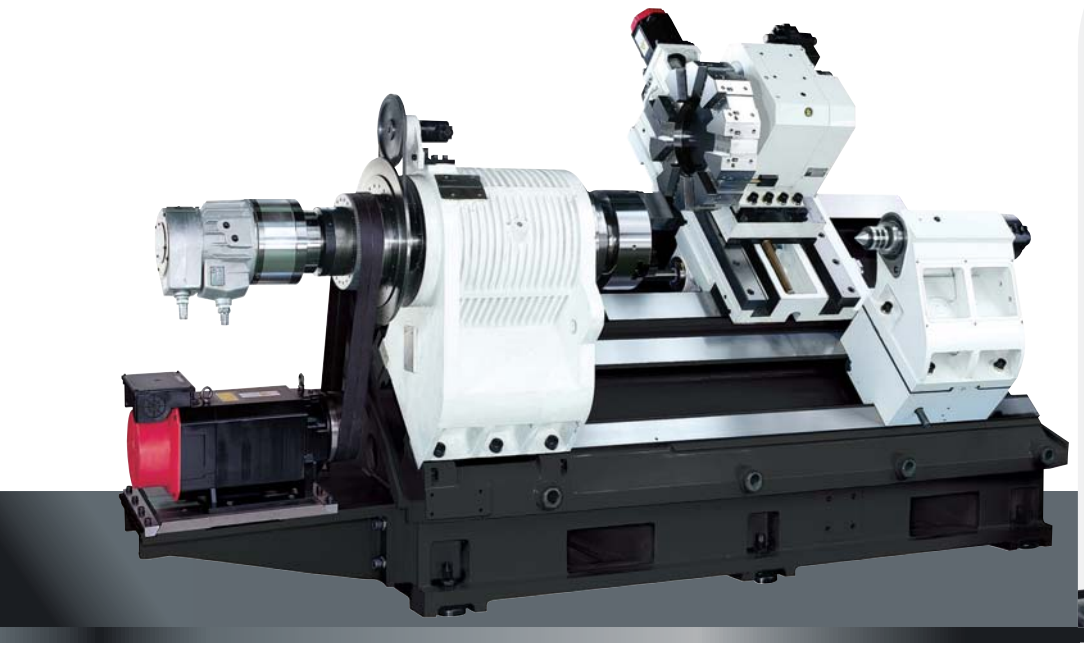
FBL-200 Tool Interference



FBL-200L Tool Interference

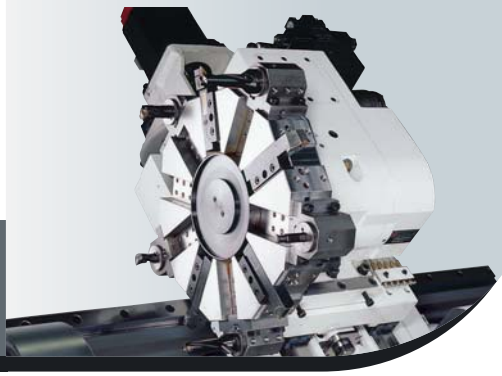


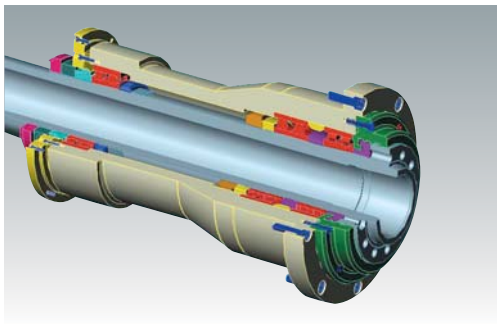
FBL-300 Series



Powerful Turret

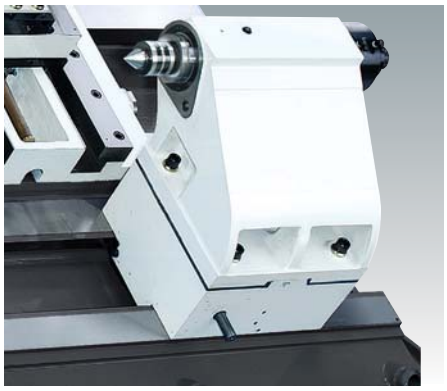
- Fitted with powerful hydraulic turret for heavy duty machining. Structured with rigid mechanical parts to meet strict requirements for high machining efficiency.
- 12 position turret ptional.





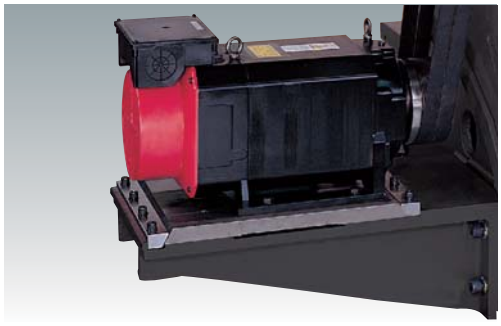
High Precision Spindle System

Module designed spindle and collet type bearings are used as support for enhanced accuracy and service life than stock type spindle structure.



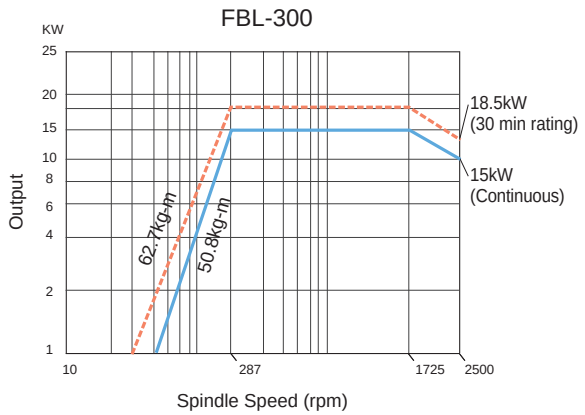
Programmable Tailstock System

- High rigidity machine body highlights shock-dampening property.
- Z-axis saddle driven by programs for automatic control of tailstock movement. (FBL-300 Option)
- Optional rotating arbor for greater workload.



Imported highly intensive pitch type belt that grabs solidly without slippery. Out-fitted transmission device produces low noise and heat transmission to have good heat radiation, easy maintenance and adjustment.

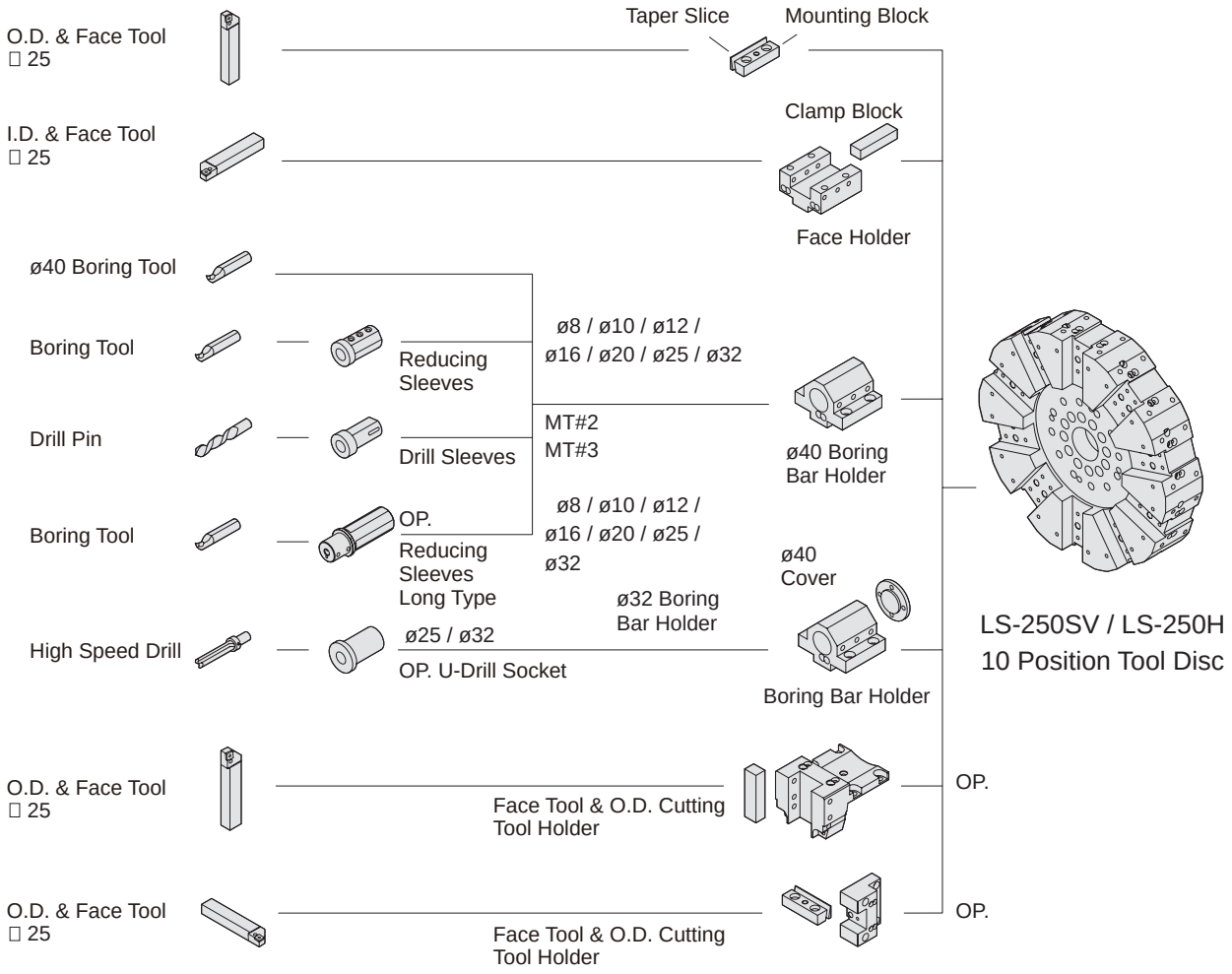
Spindle Torque Diagram



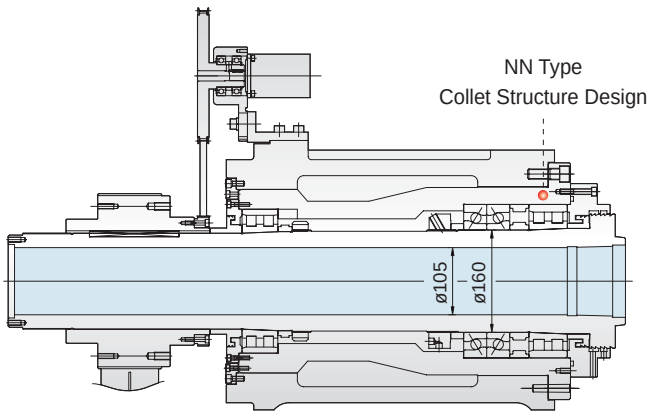
FBL-300 System Diagram

FBL-300 Tooling System

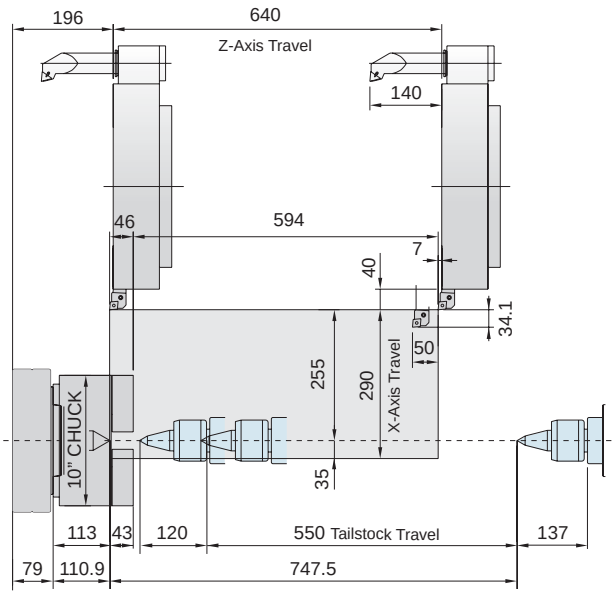
Unit: mm



FBL-300 Spindle Structure

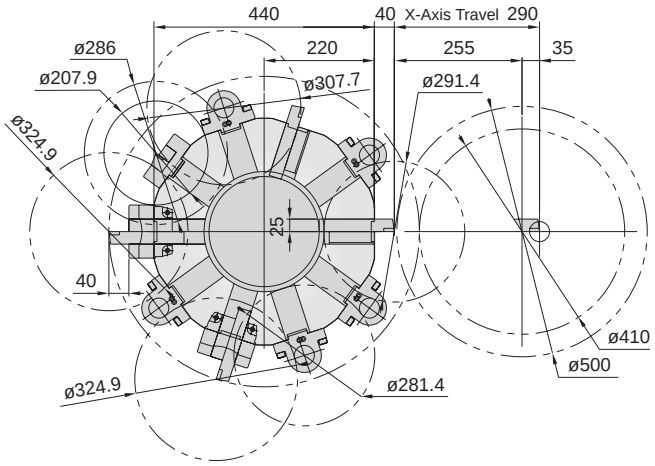


FBL-300 Machining Area

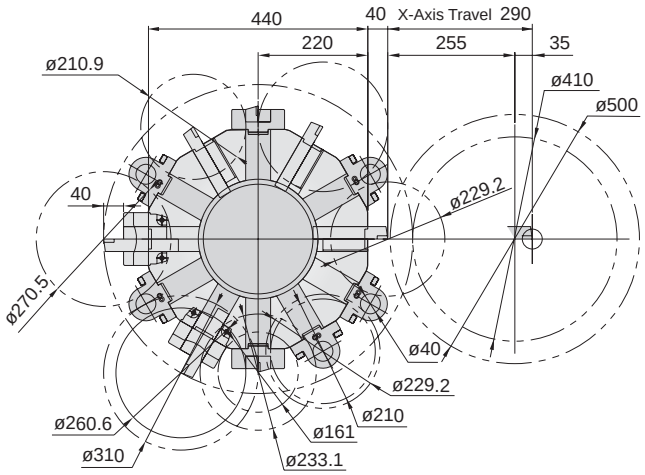


FBL-300 Tool Interference

Unit: mm



Standard 10 Tools +10" Chuck

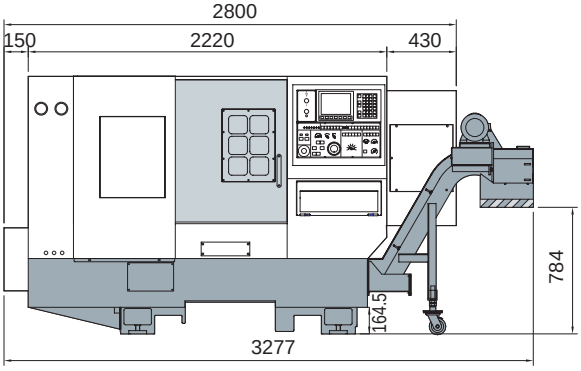


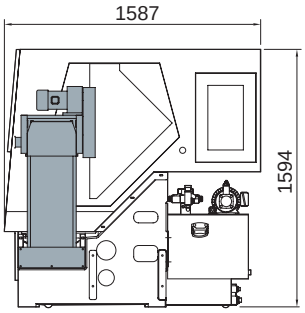
Optional 12 Tools

Dimensions

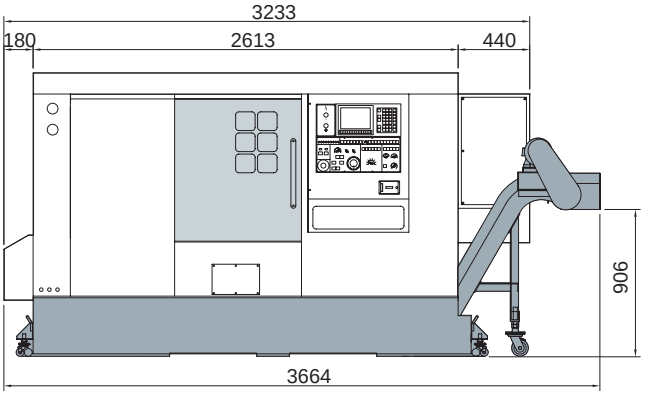
Unit: mm

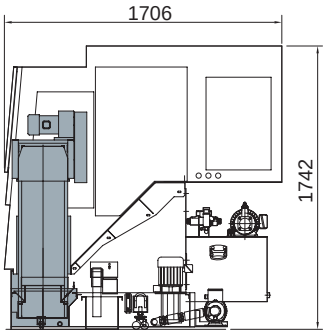
FBL-200



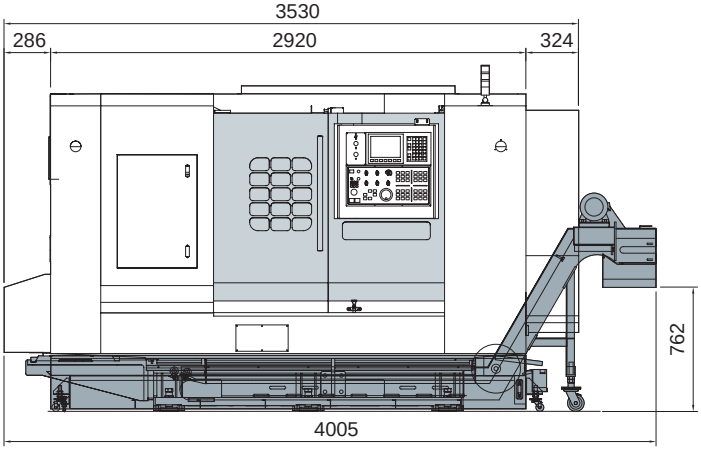


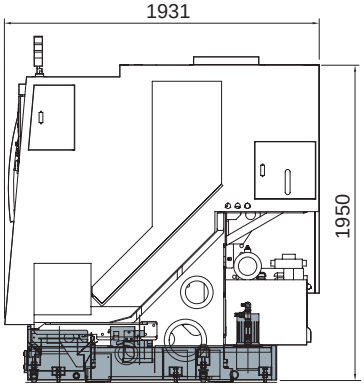
FBL-200L





FBL-300





Specifications

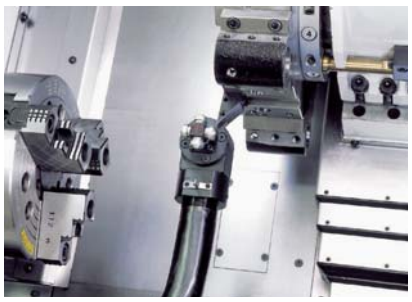
MODEL		FBL-200A	FBL-200	FBL-200L	FBL-300
Swing over bed	in/mm	18.5" / 470	18.5" / 470	18.5" / 470	25.7" / 654
Swing over cover	in/mm	5" / 126	11.2" / 284	11.6" / 296	16.4" / 418
Max. cutting diameter	in/mm	11.3" / 288	10.2" / 260	10.2" / 280	20" / 510
Max. cutting length	in/mm	16" / 408	16" / 408	24" / 610	23.4" / 594
Distance between centers	in/mm	18.9" / 480	18.9" / 480	26.8" / 680	29.4" / 748
Spindle nose	ASA	A2-6	A2-6	A2-6	A2-8
Chuck size	inch	8	8	8	10 (12)
Spindle hole diameter	in/mm	2.4" / 62	2.4" / 62	2.4" / 62	3.5" / 88
Spindle speed	rpm	3500	3500	3500	2500
Spindle motor	Kw	7.5 / 11	11 / 15	11 / 15	15 / 18.5
Spindle runout	in/mm	0.003	0.003	0.003	0.003
Max. bar material diameter	in/mm	2" / 52	2" / 52	2" / 52 (2.5" / 65 opt.)	3" / 77
Z axis travel	in/mm	17.7" / 450	17.7" / 450	25.6" / 650	25.2" / 640
X axis travel	in/mm	12.6" / 320	6.9" / 175	6.9" / 175	11.4" / 290
Z axis rapid traverse	in(M)/min	787 ipm (20)	787 ipm (20)	787 ipm (20)	787 ipm (20)
X axis rapid traverse	in(M)/min	787 ipm (20)	787 ipm (20)	787 ipm (20)	787 ipm (20)
Number of tools		6 (Gang type)	8	10	10 (12)
Turning tool size	in/mm	1" x 1" / 25 x 25	1" x 1" / 25 x 25	1" x 1" / 25 x 25	1" x 1" / 25 x 25
Boring tool size	in/mm	1 3/4" / 40	1 3/4" / 40	1 3/4" / 40	1 3/4" / 40
Tailstock travel	in/mm	-	12.2" / 310	20" / 510	21.6" / 550
Quill travel	in/mm	-	3.9" / 100	3.9" / 100	5.1" / 130
Quill diameter	in/mm	-	2.9" / 75	2.9" / 75	3.5" / 90
Quill taper hole	MT	-	4	4	5
Quill drive		-	Hydraulic	Hydraulic	Hydraulic
Tailstock positioning		-	Manual	Manual	Manual
Dimensions (L x W x H)	inch	106" x 67" x 63"	106" x 67" x 63"	106" x 67" x 63"	135" x 75" x 79"
	M	2.7 x 1.7 x 1.6	2.7 x 1.7 x 1.6	3 x 1.7 x 1.6	3.5 x 1.9 x 2
Machine weight	lb/kg	7040 / 3200	7678 / 3490	9921 / 4500	5800 / 12760

■ Specifications are subject to change without notice.

Standard & Optional Accessories

● Standard △ Optional

MODEL	FBL-200A	FBL-200	FBL-200L	FBL-300
8" Hydraulic chuck	●	●	●	-
10" Hydraulic chuck	-	-	-	●
Hard jaws(set)	8"x1	8"x1	8"x1	10"x1
Soft jaws (set)	8"x1	8"x1	8"x1	10"x1
Hydraulic turret	●	●	●	●
Servo turret	△	△	△	△
Boring bar holder	1	4	5	5
Face holder	1	1	2	2
Tool sleeve (set)	1	1	1	1
O.D. tool holder	1	-	-	-
Bidirectional tool holder	1	-	-	-
Coolant system	●	●	●	●
Moveable coolant tank	●	●	●	●
1 set leveling bolts and pads	●	●	●	●
Grease lubrication system	△	△	△	△
Centralized lubrication system	●	●	●	●
Work lamp	●	●	●	●
Foot pedal for hydraulic chuck	●	●	●	●
Tool kit	●	●	●	●
Manual	●	●	●	●
Chip conveyor and bucket	●	●	●	●
MT4/MT5 live center	-	4	4	5
Programmable tailstock	△	△	△	△
3 color warning light	△	△	△	●
Parts catcher	△	△	△	△
Manual toolsetting probe	△	△	△	△
Auto tool setting probe	△	△	△	△
Oil skimmer	△	△	△	△
Oil mist collector	△	△	△	△
Transformer	△	△	△	△
CE safety accessories	△	△	△	△
Automatic door (pneumatically driven)	△	△	△	△
Pedal switch for tailstock	△	△	△	△
Bar feeder and interface	△	△	△	△
Collet chuck	△	△	△	△
Work blower	△	△	△	△
High pressure cooler	△	△	△	△



Manual, Auto Tool Setter



Parts Catcher



Bar Feeder

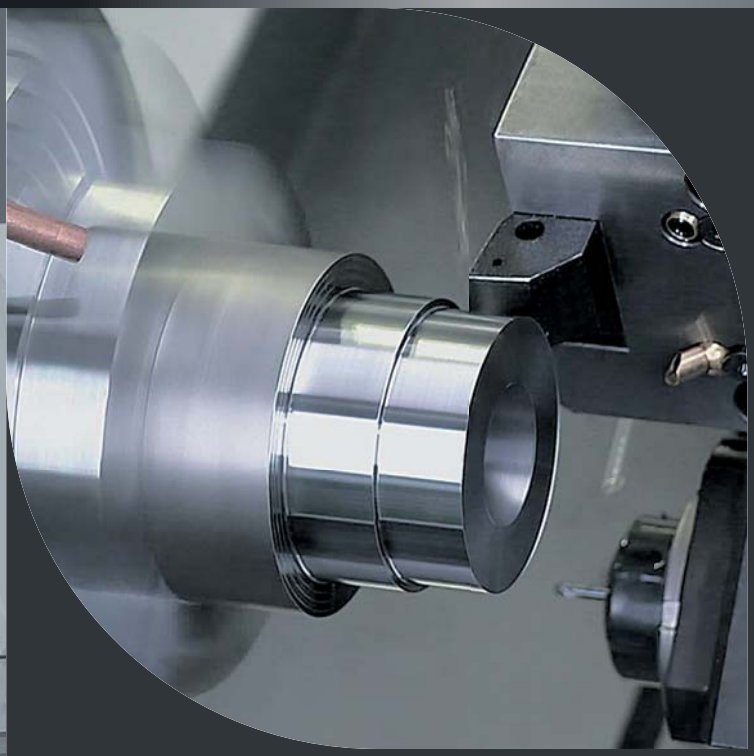
CHEVALIER®

Grinding / Turning / Milling

FBL-200/A/L
FBL-300

Box Way Series CNC Lathes





ISO 9001

ISO 9001 BSMI REGISTERED

IT'S VERY WELL MADE IN TAIWAN

CE

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