

Focuscnc®

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Focuscnc®

FBL-230/230MC

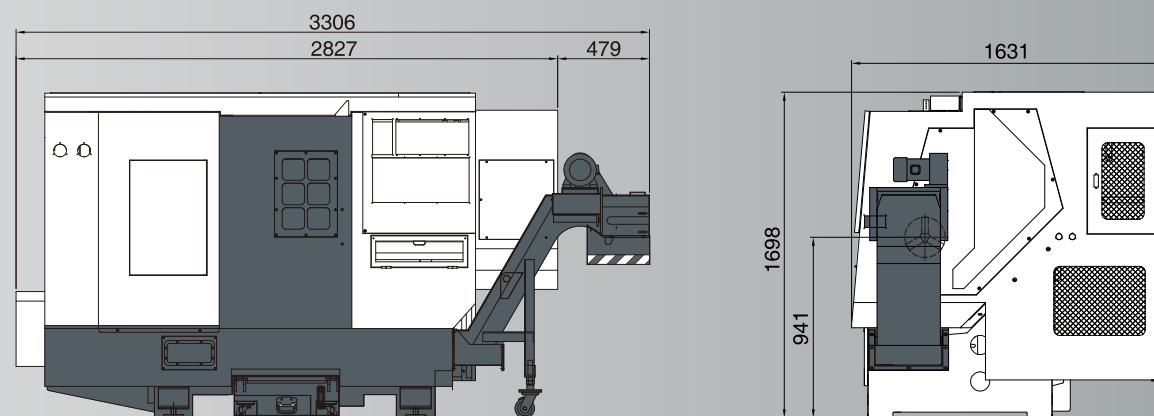
FBL-200L

Box Way Series **CNC Lathes**

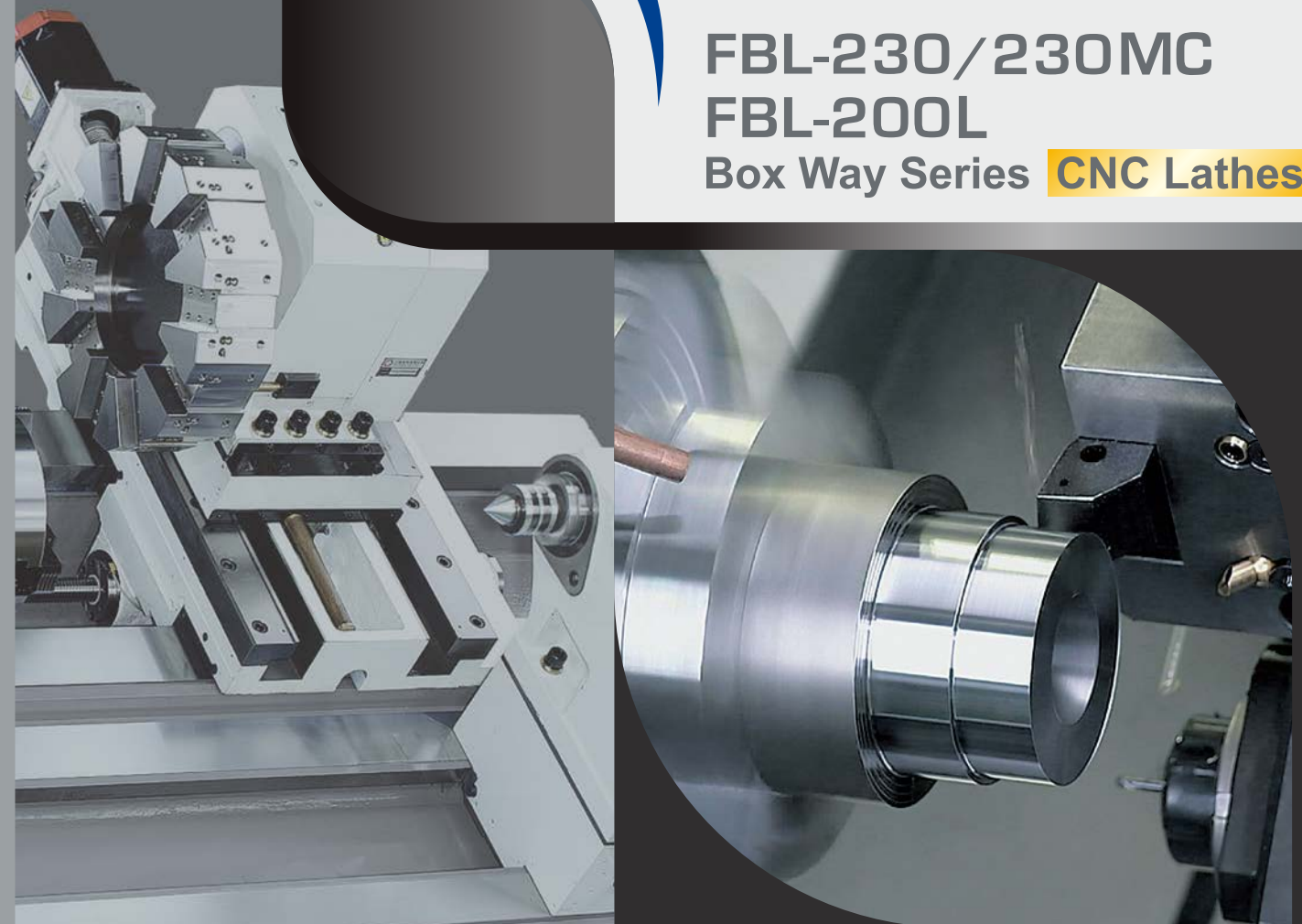
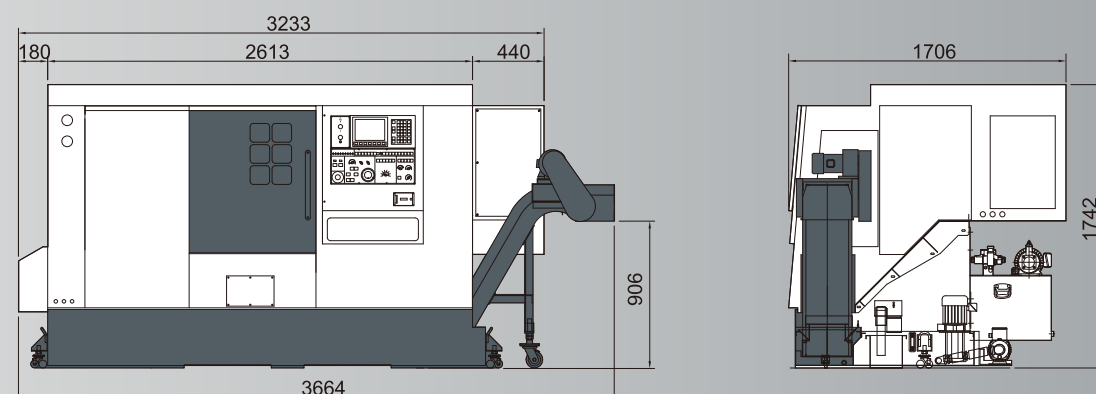
Dimensions

Unit: mm

FBL-230/MC



FBL-200L



Box Way Series

CNC Lathes

FBL-230/230MC
FBL-200L

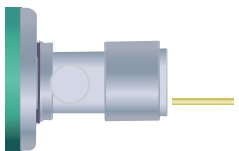
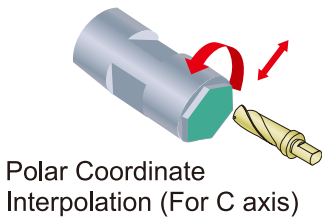
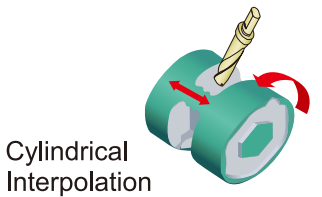


FBL-230

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

Controller

FANUC



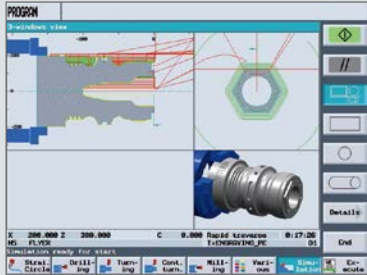
Manual Guide i (opt.)
Conversational editing with
3D simulation available.

SIEMENS



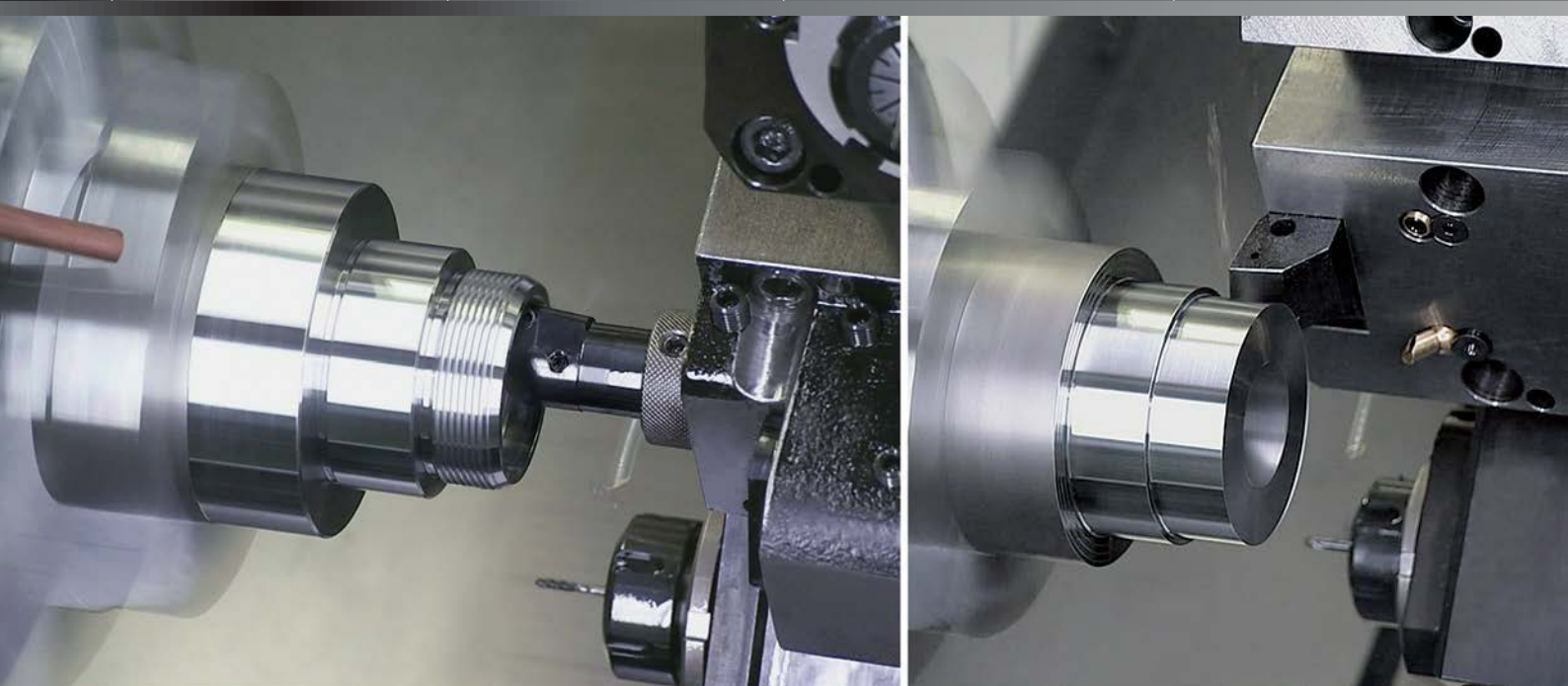
Uses a 10.4" screen for easy operation. Optional Shop Turn function with integrated operating system. Finish programming without having to use G code.

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

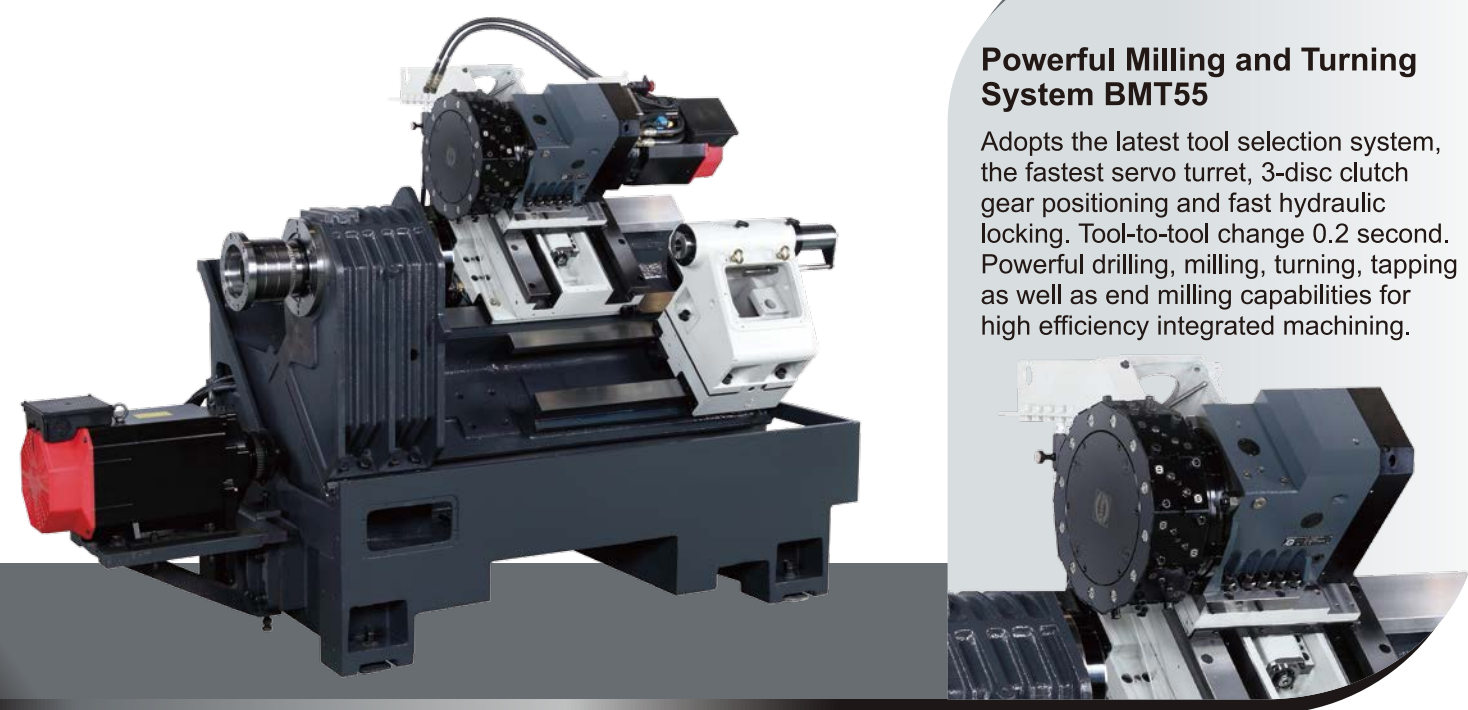


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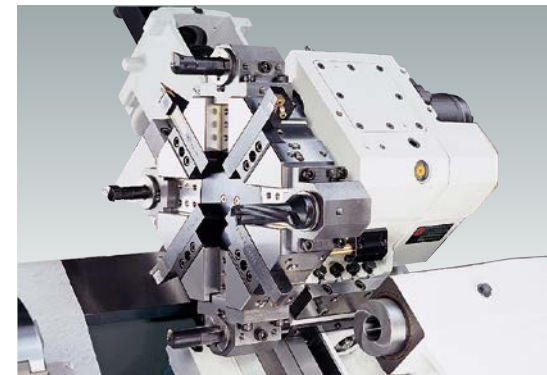


FBL-230 Series



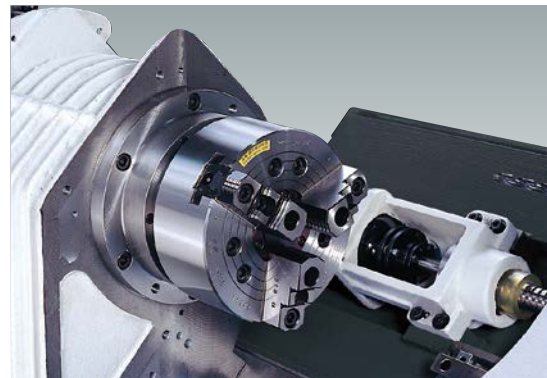
Powerful Milling and Turning System BMT55

Adopts the latest tool selection system, the fastest servo turret, 3-disc clutch gear positioning and fast hydraulic locking. Tool-to-tool change 0.2 second. Powerful drilling, milling, turning, tapping as well as end milling capabilities for high efficiency integrated machining.



High Speed and High Precision Hydraulic Cam Turret

High speed and high precision hydraulic cam tool turret holding 10 tools, with tool change in 0.3 second, repeatability accuracy up to 0.002mm.



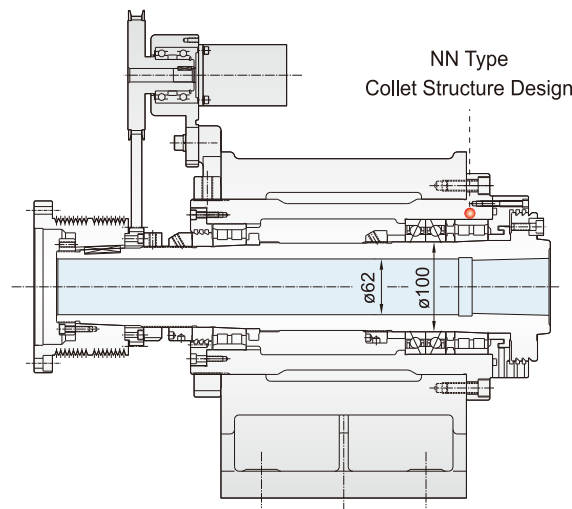
High Precision Spindle System

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.

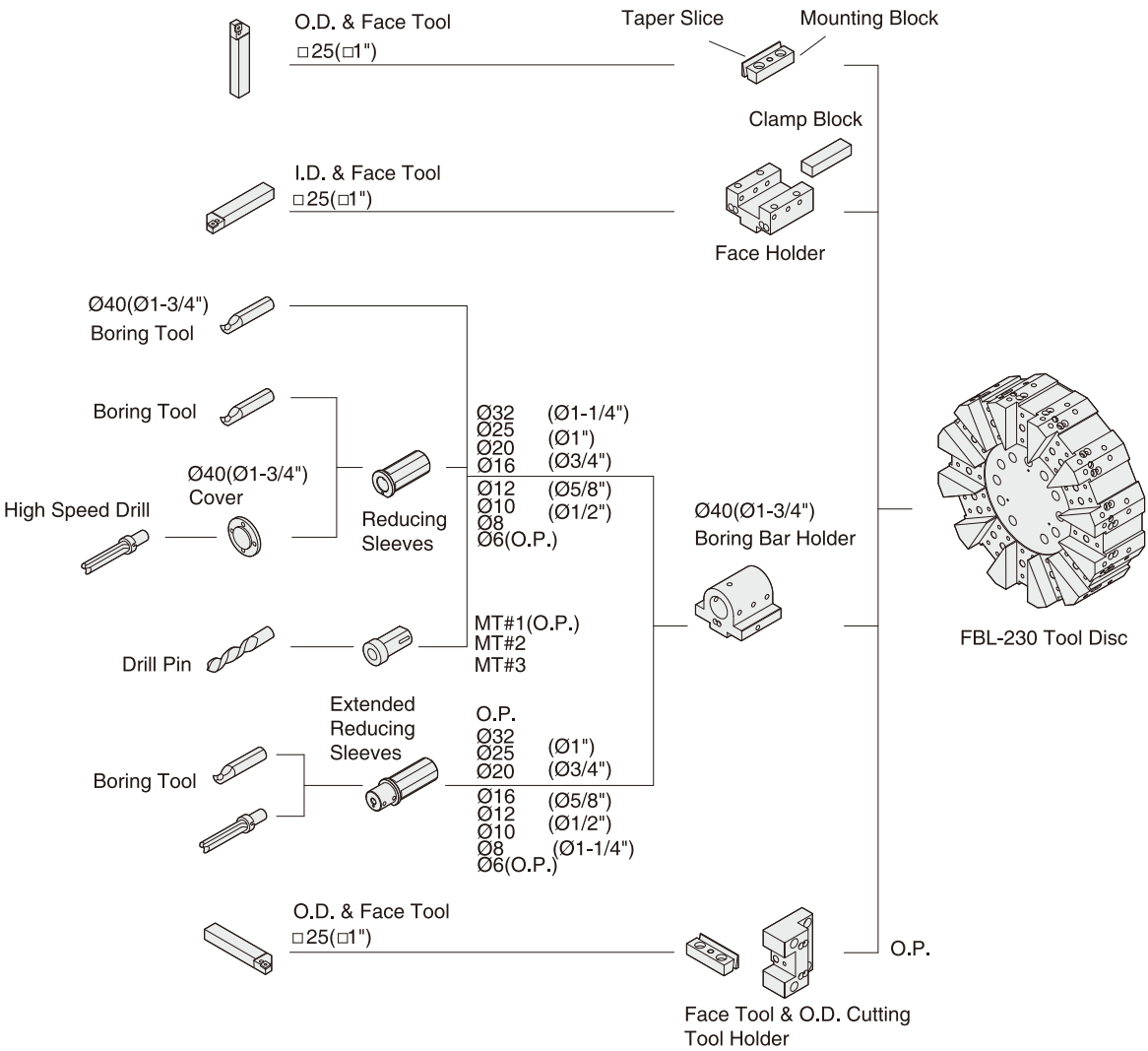
FBL-230 Spindle Structure



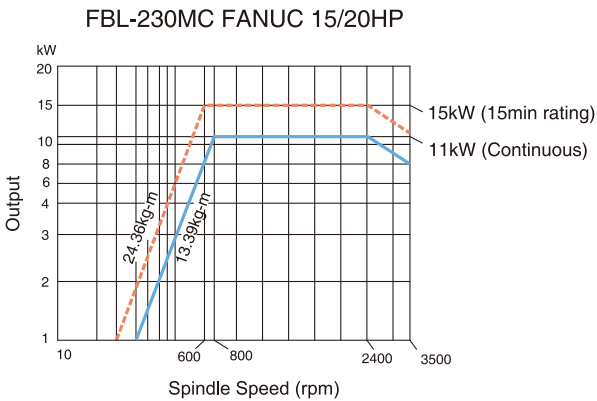
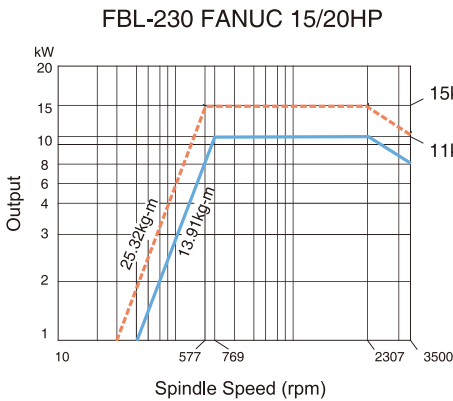
FBL-230 System Diagram

FBL-230 Tooling System

Unit: mm



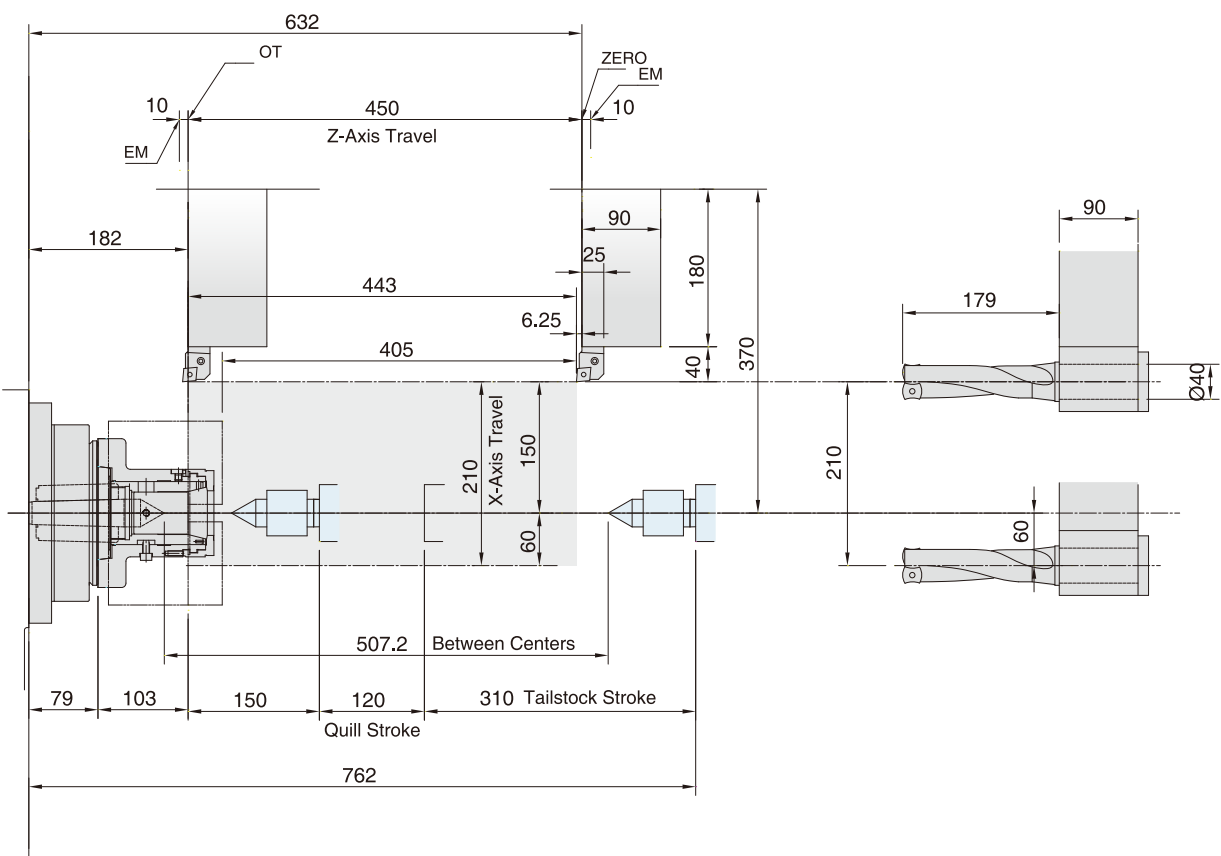
FBL-230 Spindle Torque Diagram



FBL-230 System Diagram

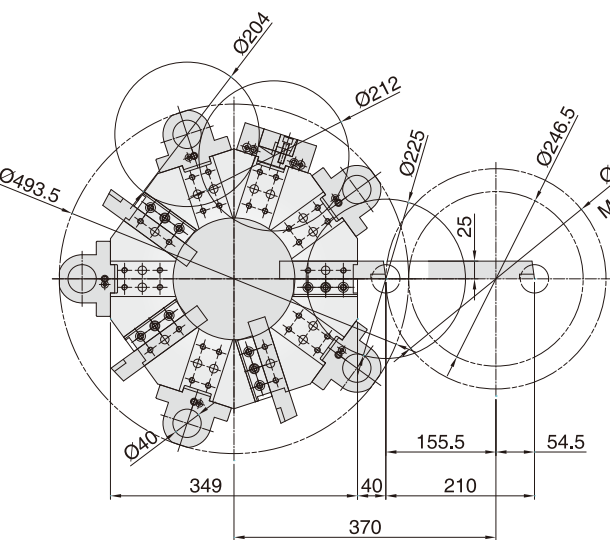
FBL-230 Machining Area

Unit: mm



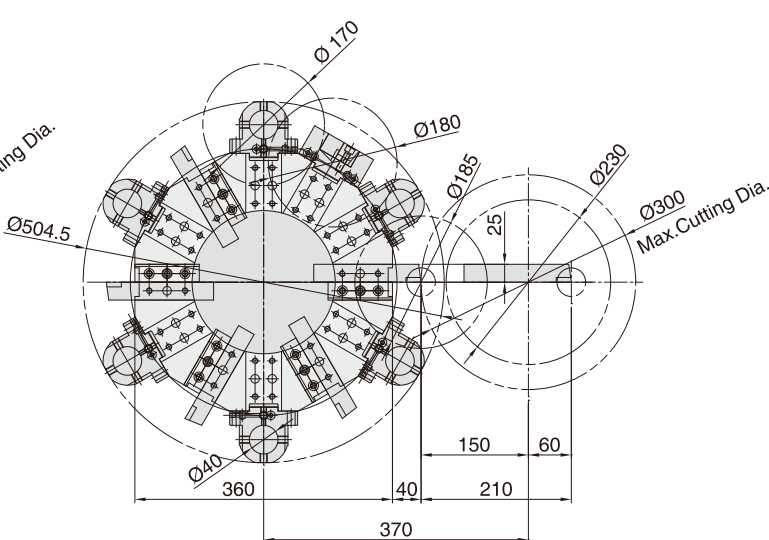
FBL-230 Tool Interference

Standard 10 Tools



FBL-230 Tool Interference

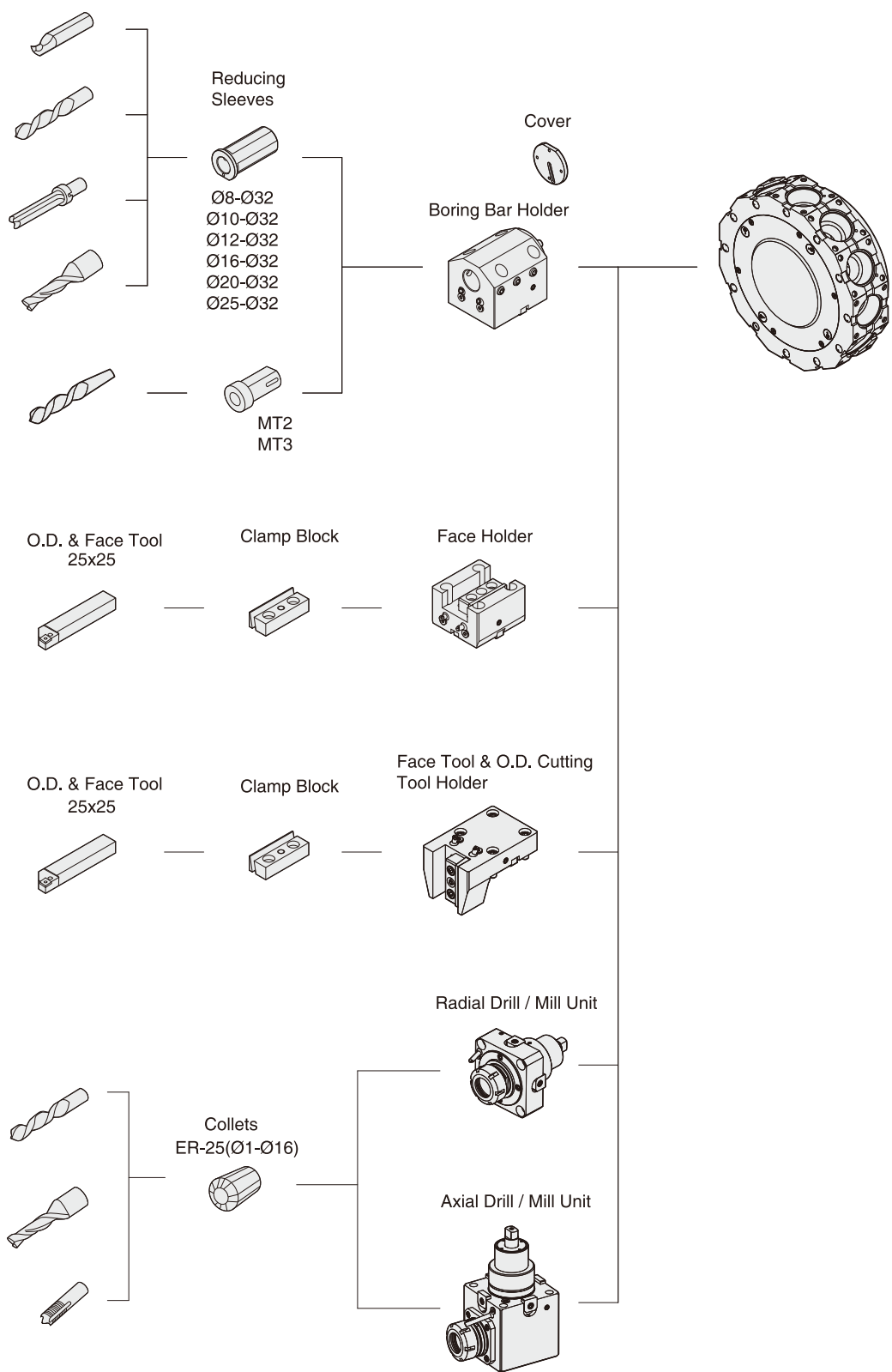
Optional 12 Tools



FBL-230MC System Diagram

FBL-230MC Tooling System

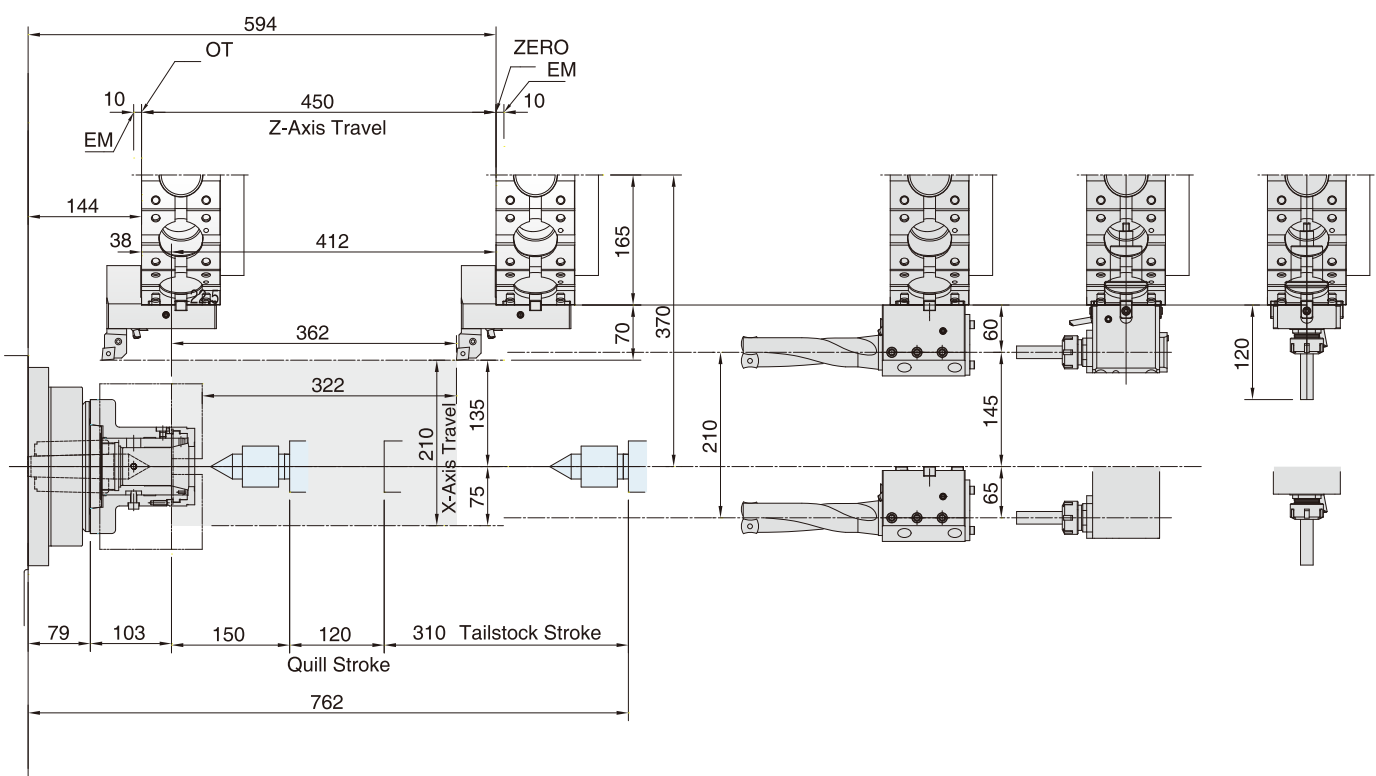
Unit: mm



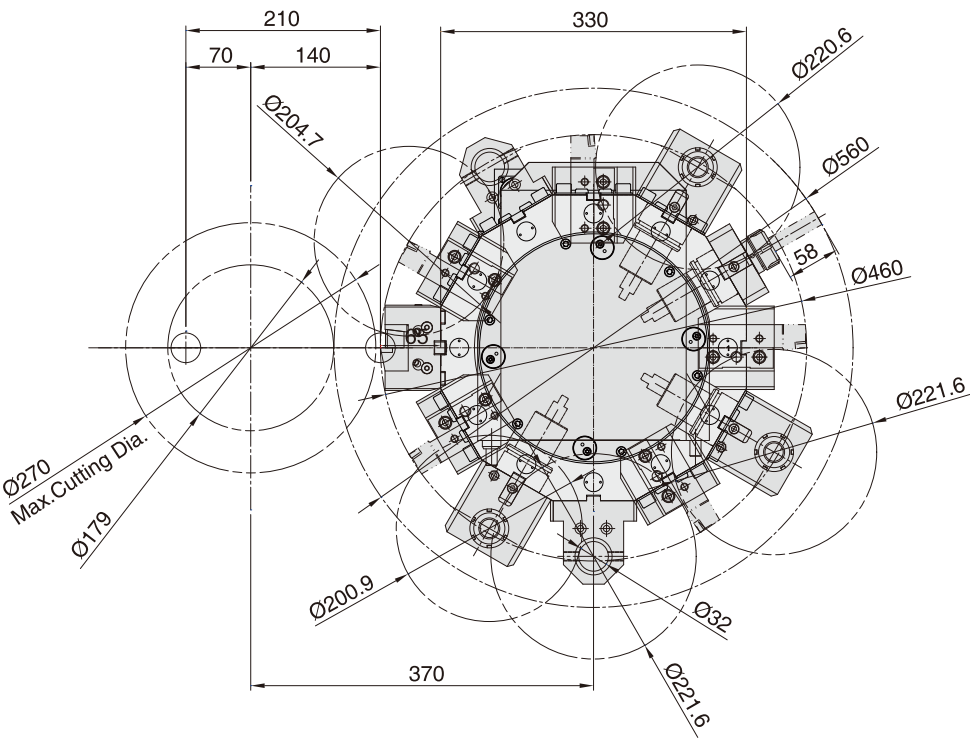
FBL-230MC System Diagram

FBL-230MC Machining Area (BMT55-12T)

Unit: mm



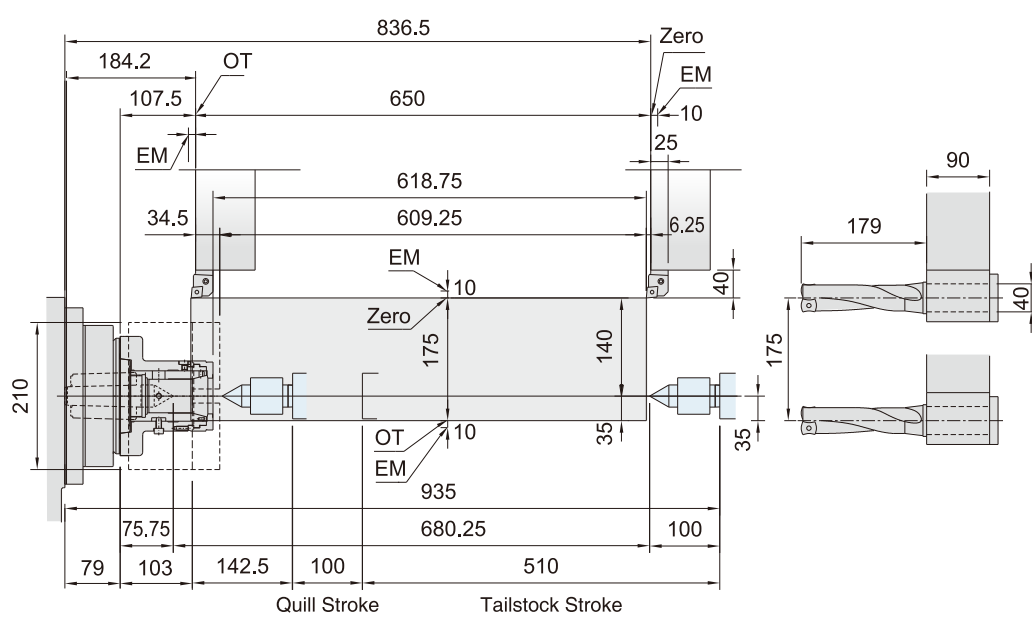
FBL-230MC Tool Interference



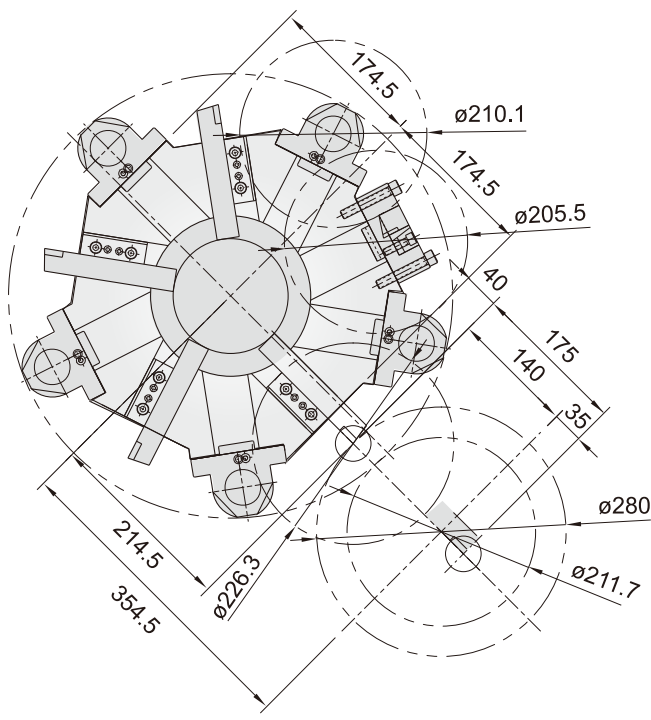
FBL-200L System Diagram

FBL-200L Machining Area

Unit: mm



FBL-200L Tool Interference



Specifications

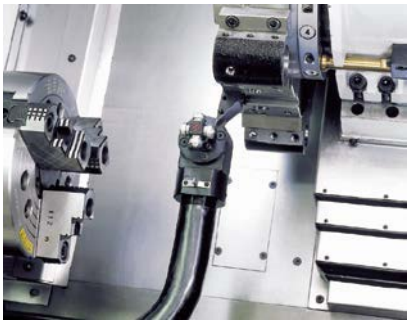
MODEL		FBL-230	FBL-230MC	FBL-200L
Swing over bed	mm	550	550	470
Swing over cover	mm	330	330	296
Max. cutting diameter	mm	311	270	280
Max. cutting length	mm	443	362	610
Distance between centers	mm	507	507	680
Spindle nose	ASA	A2-6	A2-6	A2-6
Chuck size	inch	8	8	8
Spindle bearing diameter	mm	62	62	62
Spindle hole diameter	rpm	3500	3500	3500
Spindle motor (cont/30min)	kW	11 / 15	11 / 15	11 / 15
Spindle runout	mm	0.003	0.003	0.003
Max. bar material diameter	mm	52	52	52 / 65 (Opt.)
Z axis travel	mm	450	450	650
X axis travel	mm	210	210	175
Z axis rapid traverse	M/min	20	20	20
X axis rapid traverse	M/min	20	20	20
Tool System		-	-	-
Number of tools		10 / 12	12	10 / 12
Turning tool size	mm	25x25	25x25	25x25
Boring bar size	mm	40	32	40
Tailstock travel	mm	310	310	510
Quill travel	mm	120	120	100
Quill diameter	mm	75	75	75
Quill taper hole	MT	4	4	4
Quill drive		Hydraulic	Hydraulic	Hydraulic
Tailstock positioning		Manual	Manual	Manual
Dimension (L x W x H)	M	2.8x1.7x1.7	2.8x1.7x1.7	3x1.7x1.6
Machine weight	kg	3500	3500	4500

■ Specifications are subject to change without notice.

Standard & Optional Accessories

● Standard △ Optional

MODEL	FBL-230	FBL-230MC	FBL-200L
8" Hydraulic chuck	●	●	●
Hard jaws(set)	8"x1	8"x1	8"x1
Soft jaws (set)	8"x1	8"x1	8"x1
Hydraulic turret	●	-	●
Servo turret	△	●	△
Boring bar holder	5	4	5
Face holder	2	2	2
Tool sleeve (set)	1	1	1
O.D. tool holder	-	4	-
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 live center	●	●	●
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