





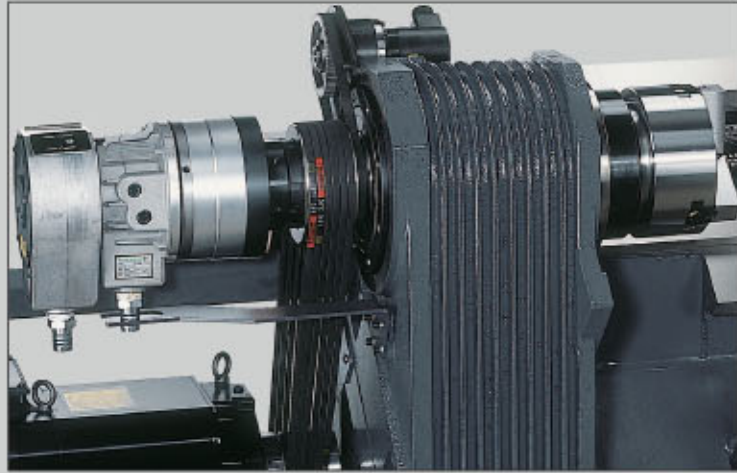
# Massive and Rigid Construction *for* Maximum, Turning Capacity

## HEAVY DUTY CONSTRUCTION THROUGHOUT

- All structural parts are manufactured from high-quality Meehanite cast iron, stress relieved for deformation-free results.
- The 45° slant bed construction assures maximum stability in heavy duty operations. It also allows for convenient chip disposal.
- Square ways on X and Z-axes are hardened and precision ground.

LET YATELI CNC LATHES SHOW  
YOU HOW TO BOOST YOUR  
TURNING PRODUCTIVITY.

## Designed and Engineered with Productivity and Accuracy in Mind



### HIGH PRECISION SPINDLE

- The spindle is mounted with high precision class P4 angular contact ball bearings, providing outstanding radial and thrust loads.
- The spindle is precision machined from high quality alloy steel, hardened, precision ground and dynamically balanced, making it ideal for heavy duty machining.



### HIGH QUALITY CONTROL COMPONENTS

- The control circuit in the electrical cabinet consists of high-quality electronic components, featuring maximum stability of control performance and long service life.
- The electrical cabinet is equipped with a heat exchanger to ensure constant temperature.
- Totally enclosed electrical cabinet provides dust proofing.

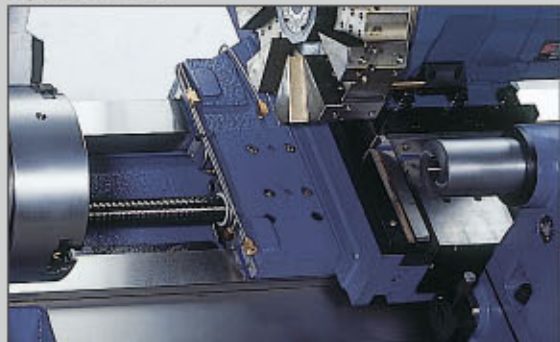
### CNC CONTROL

- The CNC lathe is equipped with a FANUC CNC control as standard equipment.
- Other brands of CNC controls are available such as, Mitsubishi and Siemens.

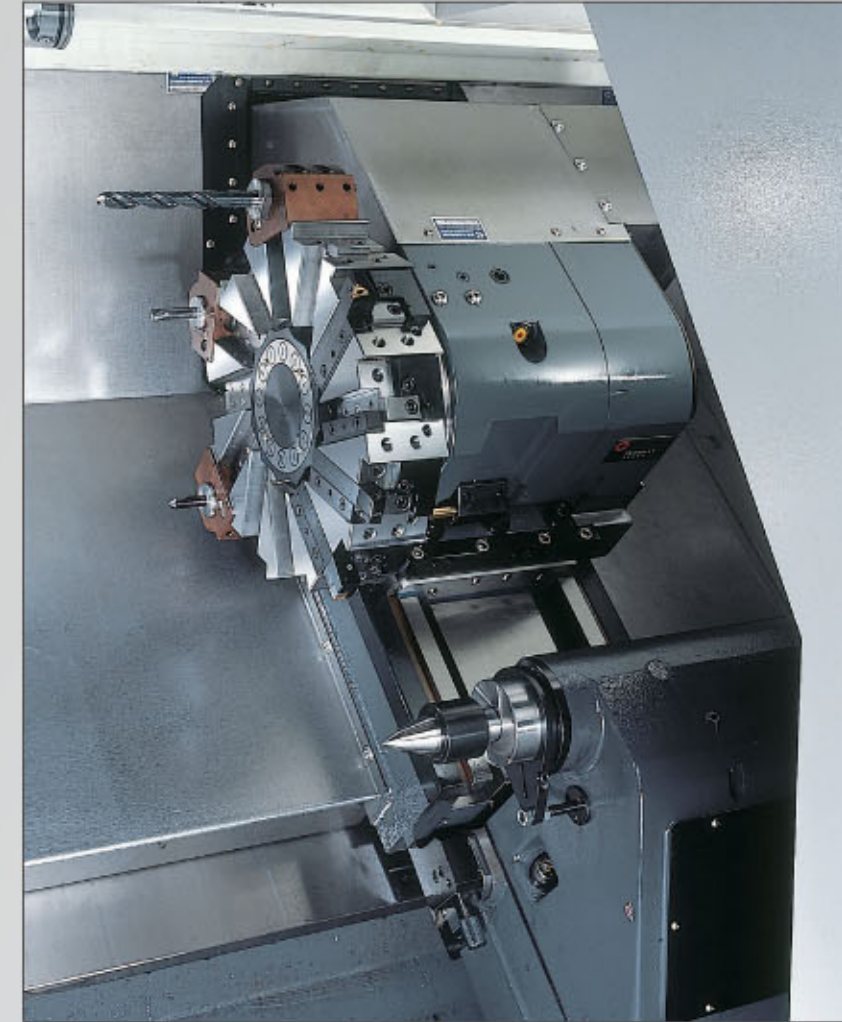


### HYDRAULIC TAILSTOCK

The rigid tailstock is locked on the bed firmly. The tailstock quill movement is driven by hydraulic power for convenient operations.



## Outstanding Features Assure Greater Value



### HYDRAULIC TURRET

- Choice of 8, 10 and 12 position turret.
- The hydraulic turret features the shortest route random tool selection.
- Bi-directional tool indexing for quick tool change.
- The hydraulic turret accommodates I.D. and O.D. tools for turning intricate parts.
- Heavy duty turret construction assures maximum rigidity and stability.

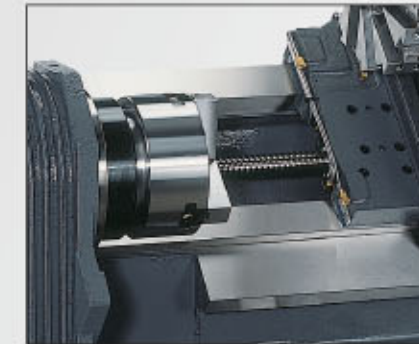


### COOLANT SYSTEM

The coolant system delivers high pressure coolant to flush chips and extend tool service life.

### 3-JAW HYDRAULIC CHUCK

The 3-jaw hydraulic chuck is standard equipment and comes with hard and soft jaws.



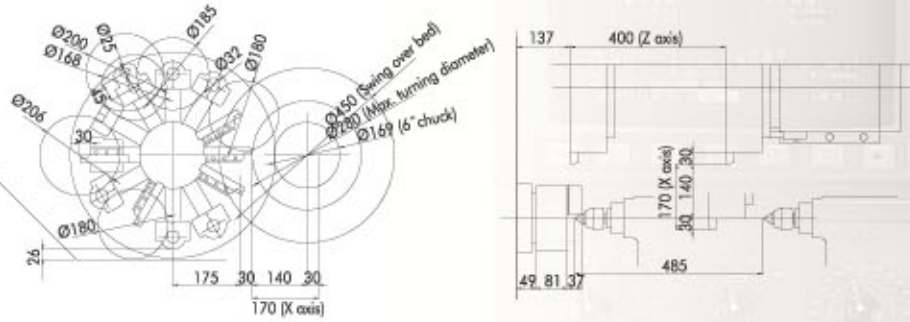
### AUTOMATIC LUBRICATOR

- The automatic lubricator provides lubrication to all slideways, ball screws and tailstock quill ensuring smooth motions at all times.
- Oil flow and lubrication frequency can be set as desired.
- An alarm occurs in case of lack of oil.



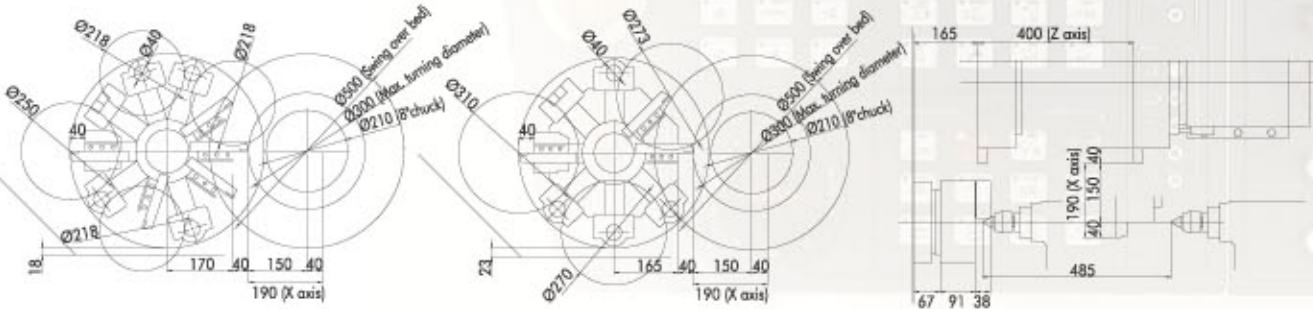
# Tool Interference Diagram

## SL-166



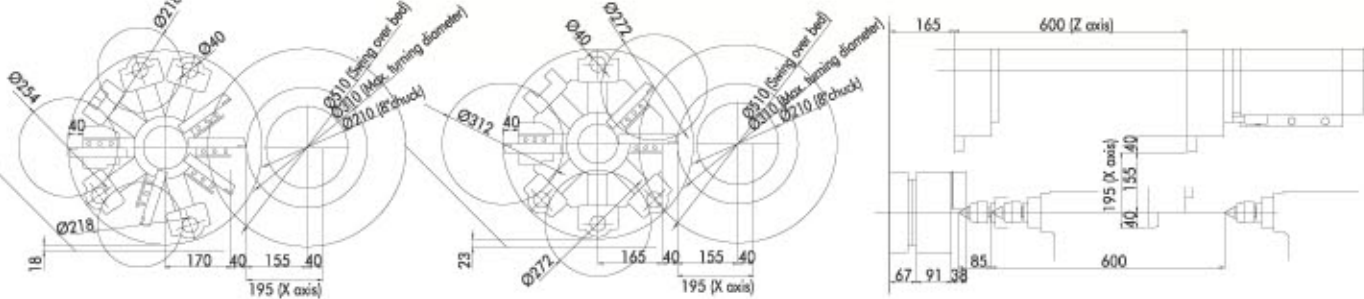
STANDARD EQUIPMENT: 20 tool shank, 12 position

## SL-208



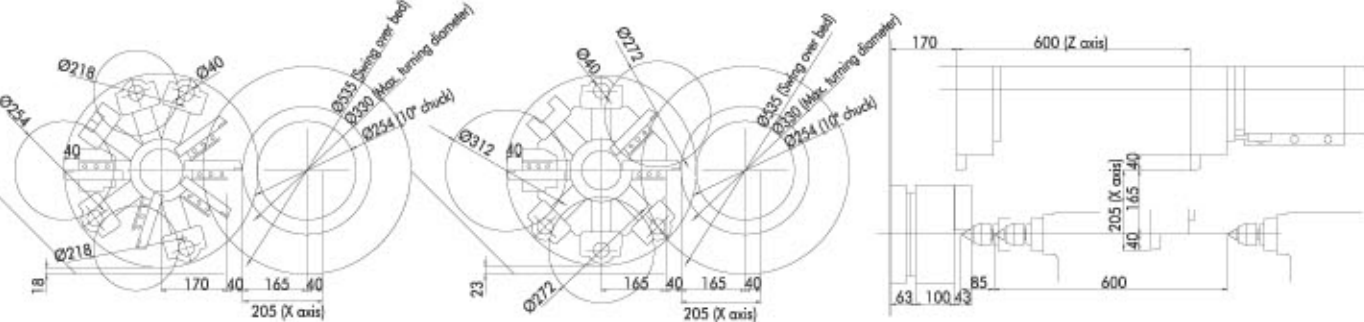
STANDARD EQUIPMENT: 25 tool shank, 10 position OPTIONAL EQUIPMENT: 25 tool shank, 8 position

## SL-258



STANDARD EQUIPMENT: 25 tool shank, 10 position OPTIONAL EQUIPMENT: 25 tool shank, 8 position

## SL-260



STANDARD EQUIPMENT: 25 tool shank, 10 position OPTIONAL EQUIPMENT: 25 tool shank, 8 position

# Machine Specifications:

MODEL	UNIT	SL-166	SL-208	SL-258	SL-260		
CAPACITY	Max. Swing over Bed	mm	450	500	510	535	
	Max. Swing over Cross Slide	mm	280	300	310	330	
	Distance Between Centers	mm	485	485	685	685	
	Max. Turning Length	mm	400	400	600	600	
	Max. Turning Diameter	mm	280	300	310	330	
SPINDLE	Max. Bar Diameter	mm	Ø45	Ø51	Ø51	Ø74	
	Hyd. Chuck Diameter	inch	6"	8"	8"	10"	
	Hole Through Spindle	mm	Ø56	Ø61	Ø61	Ø90	
	Spindle Nose	Type	A2-5	A2-6	A2-6	A2-8	
	Bearing Type	Type	7018	NN3020	NN3020	NN3026	
	Spindle Bearing Dia.	mm	90	100	100	130	
	Spindle Motor	HP	20	25	25	35	
	Spindle Speed	r.p.m	6000	4200	4200	3500	
	TURRET	Turret Type	Type	Hyd./Servo Turret	Hyd./Servo Turret	Hyd./Servo Turret	Hyd./Servo Turret
		Tool Shank/Numbers	mm	□20/12	□25/10 (□25/8)	□25/10 (□25/8)	□25/10 (□25/8)
Tool Holder Bore Dia.		mm	Ø32	Ø40	Ø40	Ø40	
X-axis	Travel	mm	140+30	150+30	155+30	165+30	
	Rapid Traverse Rate	M/min	20 (16)	20 (16)	20 (16)	20 (16)	
	Servomotor	Kw	2.1	2.1	2.1	2.1	
Z-axis	Travel	mm	400	400	600	600	
	Rapid Traverse Rate	M/min	20	20	20	20	
	Servomotor	Kw	2.1	2.1	2.1	2.1	
TAILSTOCK	Quill Diameter	mm	Ø80	Ø80	Ø80	Ø80	
	Morse Taper	mm	MT4	MT4	MT4	MT4	
	X-axis Slideway	Type	Box Way	Box Way	Box Way	Box Way	
	Z-axis Slideway	Type	Box Way	Box Way	Box Way	Box Way	
MACHINE DIMENSIONS	Coolant Tank Capacity	Liter	90	90	110	110	
	Hydraulic Pump Motor	Hp	2	2	3	3	
	Floor Space	cm	195 x 175	195 x 175	265 x 175	265 x 175	
Machine Weight	Kg	4200	4500	5200	5350		

■ Design and specifications are subject to change without prior notice.

MODEL	SL-166	SL-208	SL-258	SL-210
O.D. Tool	20 mm	20 mm	25 mm	25 mm
O.D. Auxiliary Tool Holder	2	2	2	2
Fact Tool Auxiliary Holder	1	1	1	1
Tool Shim (thin)	Tool No.	Tool No.	Tool No.	Tool No.
Too Shim (thick)	Tool No.	Tool No.	Tool No.	Tool No.
Splashing Block	Tool No.	Tool No.	Tool No.	Tool No.
I.D. Tool Holder				
32 mm	4	4	-	-
40 mm	-	-	5	5
Double I.D. Tool Holder				
20 mm	2	2	-	-
I.D. Sleeve				
6 mm	Optional	Optional	Optional	Optional
8 mm	2	2	2	2
10 mm	2	2	2	2
12 mm	2	2	2	2
16 mm	2	2	2	2
20 mm	2	2	2	2
25 mm	Optional	Optional	2	2
32 mm	-	-	2	2
Drill Sleeve				
MT1	Optional	Optional	Optional	Optional
MT2	1	1	1	1
MT3	1	1	1	1
MT4	-	-	Optional	Optional
Drill Tool Holder				
32 mm	1	1	1	1
Quick Drill Sleeve				
20 mm	Optional	Optional	Optional	Optional

### STANDARD EQUIPMENT:

- Leveling bolts and blocks
- High pressure coolant gun and air gun
- Fully enclosed splash guard
- Work lamp
- Chip conveyor with bucket
- Heat exchanger
- Chuck open/close confirmation device
- Programmable tailstock
- High/low pressure change on tailstock
- Running condition indication lamp
- Chuck air blast device
- Single point orientation on spindle
- Coolant nozzle on spindle
- Hydraulic pressure confirmation device
- Spindle rigid tapping
- Tool box

### OPTIONAL EQUIPMENT:

- Oil mist collector
- Cutting fluid cooling device
- Wireless edge measuring system
- Auto length measuring device
- Oil mist cooling system
- Over load
- Hydraulic power unit cooling system
- 20 kg. high pressure coolant system
- Auto door
- Transformer
- Stabilizer
- Bar feeder interface
- Bar feeder
- Pull feeder
- Two-axis linear scale
- Parts catcher
- Chuck high/low pressure change