

# JESSEY<sup>®</sup>

A detailed close-up photograph of a CNC lathe machine. The image shows the complex metal structure of the machine, including a large, cylindrical workpiece being machined. The lighting is dramatic, highlighting the metallic surfaces and the precision of the machinery. The background is dark, making the machine stand out.

***Sionet***

Series **CNC** Lathe

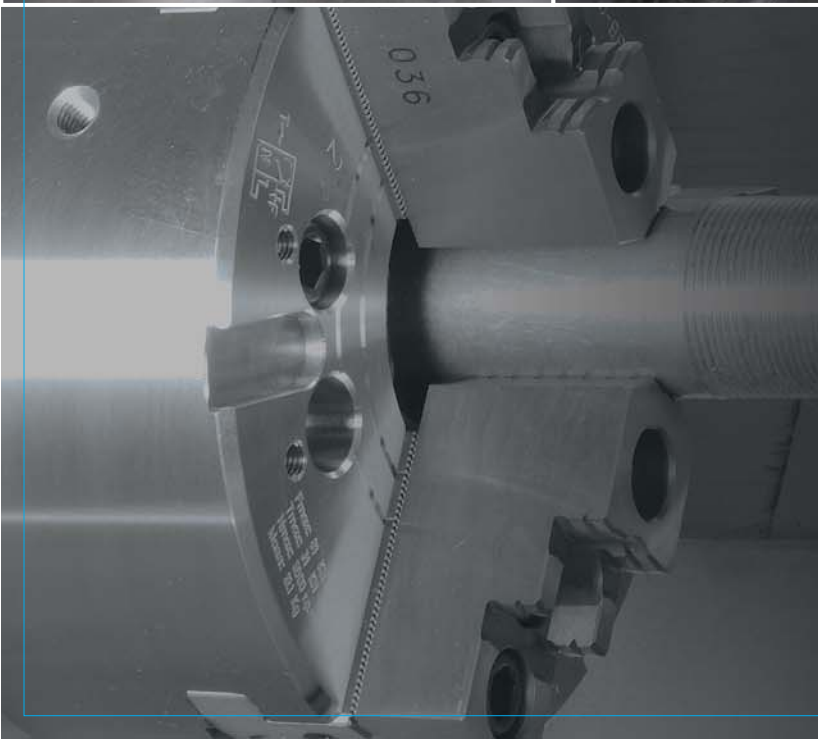
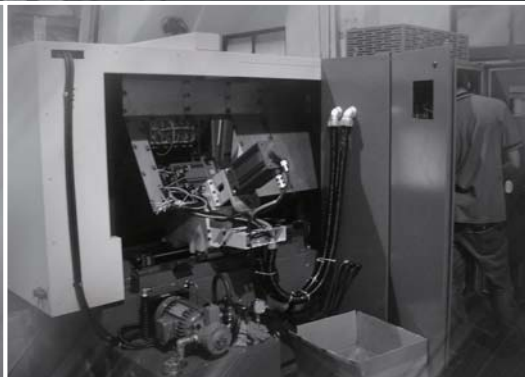
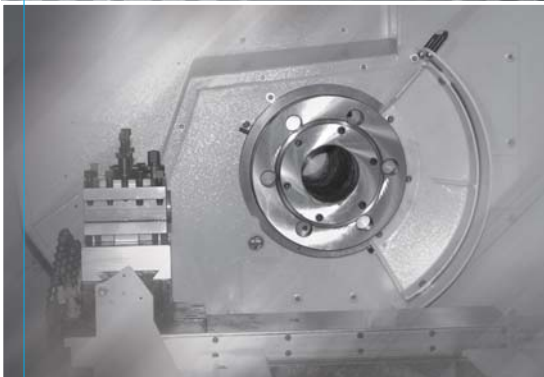
**LT-05 • LT-06 • LT-08**

*The Performance You've Come to Expect*

**CE**

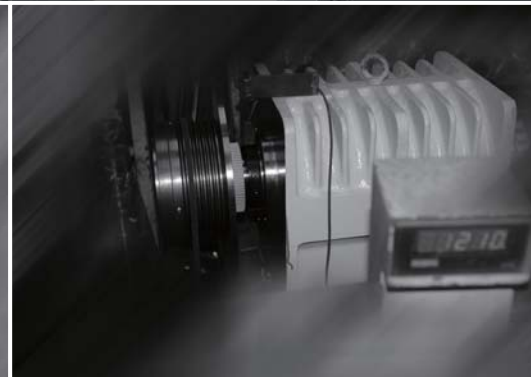
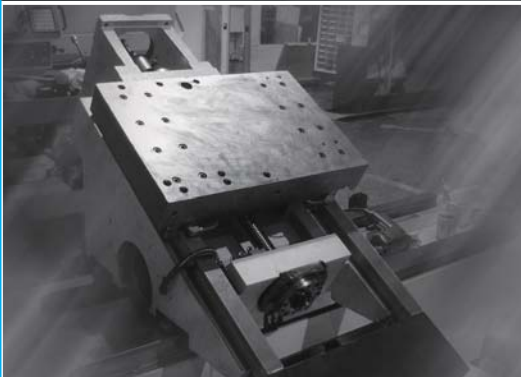
# JESSEY<sup>®</sup> CNC

***Precision Constructed Throughout!  
Lifetime Accuracy!***



*Designed and manufactured with precision, efficiency and minimum trouble in mind, the **Jesco** CNC lathes will exhibit the extraordinary performance you've come to expect. Each lathe is built with **Jesco's** tradition of quality excellence. **Jesco** CNC lathes will help you increase productivity and stay competitive.*

# LATHE



***Increased Productivity !  
Higher Precision !  
More Flexibility !***



## LT-05

Swing over bed 300 mm  
Max cutting diameter 230 mm  
X-axis travel 125 + 25 mm  
Z-axis travel 275 mm



## LT-06

Swing over bed 480 mm  
Max. cutting diameter 260 mm  
X-axis travel 150 + 25 mm  
Z-axis travel 540 mm

## LT-06M

*Equipped with fully programmable  
c-axis, power live tools and  
hydraulic disc brake for the spindle*



## LT-08

Swing over bed 560 mm  
Max cutting diameter 460 mm  
X-axis travel 240 + 25 mm  
Z-axis travel 730 mm /1230 mm

## LT-08M

*Equipped with fully programmable  
c-axis, power live tools and  
hydraulic disc brake for the spindle.*

## Optimal Base Structure for Guaranteed Stability

- The massive box type is manufactured from high quality mechanize cast iron, scientifically rib reinforced to assure the best possible rigidity and stability.
- The base is stress relieved to give lifetime deformation-free service.
- Extra wide span between slideways provide added stability during cutting. All slideways are hardened and precision ground.



X, Z-axis ball screws are directly coupled to AC servo motors.

## Hydraulic Tailstock

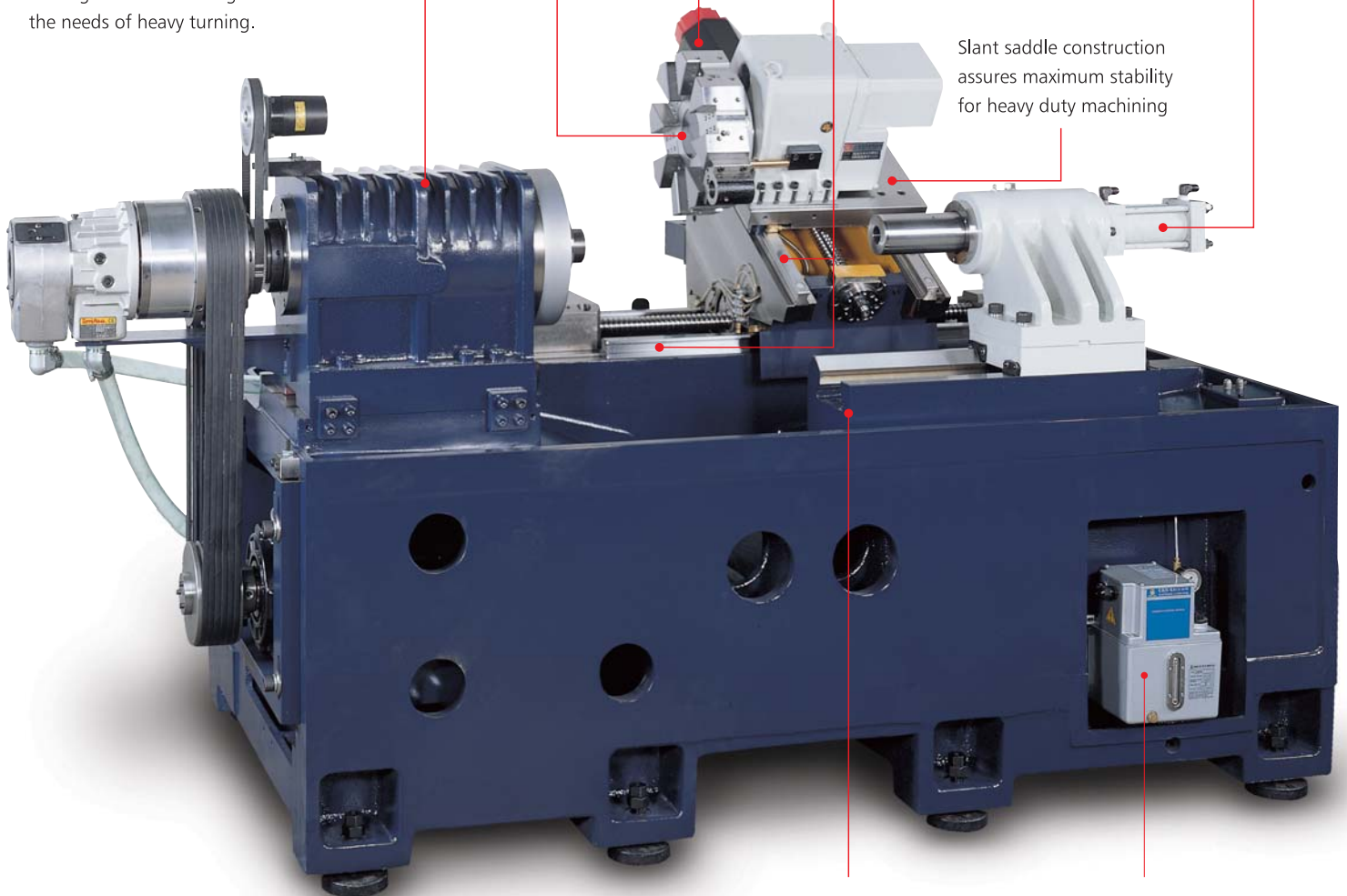
- The quill of the tailstock is conveniently adjusted by hydraulic power
- The hydraulic tailstock is standard equipment

The precision spindle is supported in P4 grade angular contact ball bearing and roller bearing to meet the needs of heavy turning.

Hydraulic 8-station turret is standard.

Linear guideways on saddle and base.

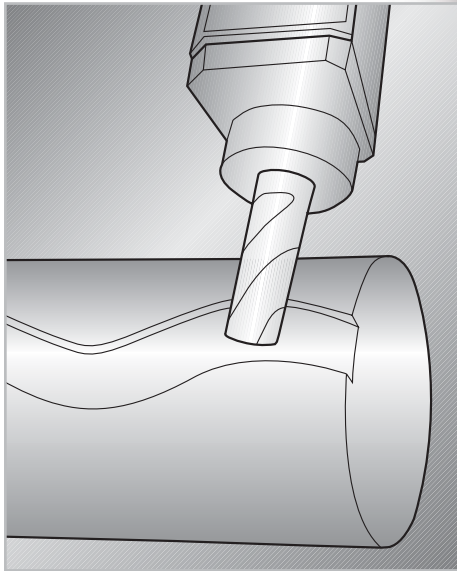
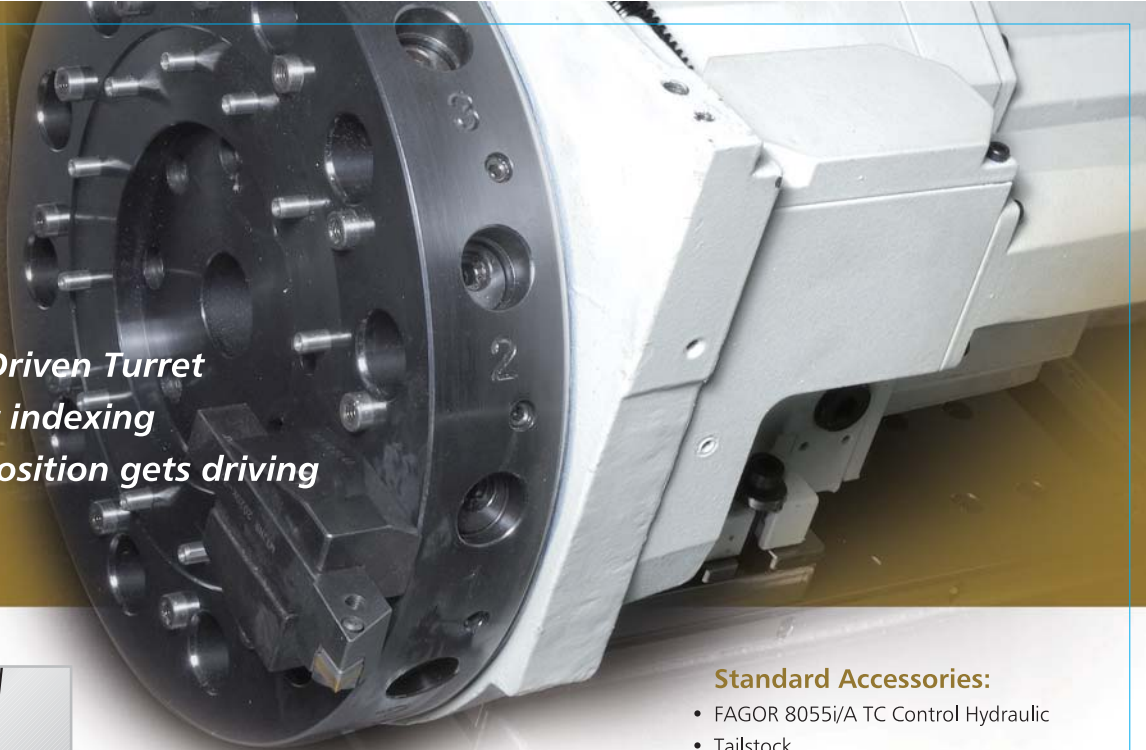
Slant saddle construction assures maximum stability for heavy duty machining



Massive bed, saddle and headstock are manufactured from stress relieved Meehanite cast iron.

Automatic central lubrication system for all linear guideways and ballscrews.

**Automatic 12-Station Driven Turret**  
**Servo Motor driven for indexing**  
**Only tool in working-position gets driving**  
**VDI Type Tooling**



**Milling Function**

By using the optional VDI turret, live tooling and c-axis, the JESSEY Lionet series CNC lathe can perform milling functions. This greatly upgrades the versatility and throughput.

**Standard Accessories:**

- FAGOR 8055i/A TC Control Hydraulic
- Tailstock
- Automatic lubrication in linear guide ways & ball screws
- Cutting fluid coolant system
- Chip conveyor with cart
- Hydraulic 8 station turret, 2 x facing toolholders, 2 x boring bar toolholders, 8 x tool clamping wedges, 1 set of boring bar bushes
- Halogen lamp
- RS-232 port
- Hydraulic hollow chuck w/1 set of hard & soft jaws or hydraulic collect chuck but without collects
- Warning light
- Leveling blocks
- Centers and center sleeve
- Service tools & toolbox
- Operation, programming & instruction manuals
- Control 1-year warranty Mechanical parts 1-year warranty
- Full CE compliance

**Driven Tools**

unit : mm

	No. of Turret	VDI-Disc	Disc Dia	Total Driven Tools
<b>LT-06M</b>	12	30	270mm	12
<b>LT-08M</b>	12	40	340mm	12



**8-STATION TURRET (STANDARD)**

The **Lionet** series CNC lathe is equipped with an 8-station turret as standard. 12-station or VDI 8/12-station turret are optional. The turret employs bi-directional, shortest route tool selection.

**Optional Accessories:**

- FANUC Oi-T/SIEMENS 828D Control
- Larger Through Hole
- Larger Z-Axis Traveling
- Set of soft jaws for chuck
- Auto. parts catcher
- Automatic door
- Programmable auto. tool probe
- Boring bar holder
- Boring bar bushes
- Facing tool holder
- VDI turret face (excluding toolholders)
- Bar feeder including interface
- High pressure coolant
- Heavy duty rolling center
- C axis and power turret
- Programmable tailstock

**Hydraulic Automatic Bi-Direction Indexing Turret**

unit : mm

	No. of Turret	Tool Section	Boring Bar Dia	Optional VDI-Disc
<b>LT-05</b>	8	20mm	25mm	VDI30-8
<b>LT-06</b>	8/12	25mm	32mm	VDI40-8 / VDI30-12
<b>LT-08</b>	8/10/12	25mm	40mm	VDI40-8 / VDI40-12



### High Capacity, High Precision Spindle

The spindle runs in high accuracy double row roller bearings combined with angular contact ball bearings, exhibiting superior axial and radial thrust capability. The high precision spindle is excellent for high precision machining at high speed while generating minimum heat.

### Cartridge Type Spindle

The cartridge spindle is easy to remove for convenience should maintenance be required.

### Carefully Assembled And Rigorously Tested

The spindle is assembled in a temperature controlled room by highly skilled engineers. Each spindle is thoroughly tested, repeatedly cycled through the full speed range prior to assembly into the machine.



### Hydraulic Chuck

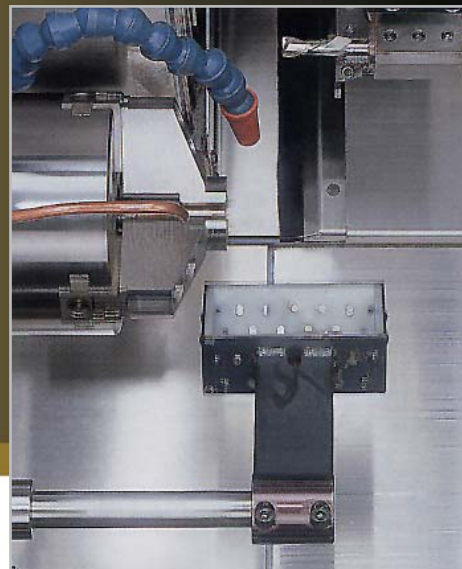
The hydraulic chuck open/close is controlled by a foot switch providing efficient and convenient chucking or releasing of work piece.



### Directly Coupled AC Servo Drive

The X axis is driven by a directly coupled AC servo motor, combined with a pre-tensioned ballscrew to provide optimal feeding accuracy and eliminate backlash.

Linear guide ways on the bed provide high rapid traverse rates increasing productivity.



### Parts Catcher (Optional)

The parts catcher provides convenient and efficient parts collection after cutting.



### Tool Pre-setter is (Optional)

The tool pre-setter is used for measuring tool length and diameter. With the tool pre-setter you can reduce cutting tests,

## Spindle Specifications

unit : mm

	Spindle Bore	Bar Capacity	Chuck Dia.	Spindle Nose	Spindle Speed	Spindle Bearing Dia.
LT-05	58mm	45mm	6"	A2-5	6000rpm	Front: 130x85mm Mid: 130x85mm Rear: 115x75mm
	62mm	52mm	8"	A2-6	4500rpm	Front: 150x100mm Mid: 150x100mm Rear: 140x90mm
LT-06	87mm	75mm	10"	A2-8	3500rpm	Front: 180x120mm Mid: 180x120mm Rear: 170x110mm
	87mm	75mm	10"	A2-8	3500rpm	Front: 180x120mm Mid: 180x120mm Rear: 170x110mm
LT-08	102mm	90mm	12"	A2-8	3000rpm	Front: 210x140mm Mid: 210x140mm Rear: 200x130mm

• The above specifications subject to change without prior notice.



## Machine Specification:

unit : mm

MODEL	LT-05	LT-06	LT-08
<b>CAPACITY</b>			
Swing over bed	300mm	480mm	560mm
Max cutting dia.	230mm	260mm	460mm
<b>SPINDLE</b>			
Spindle nose	A2-5	A2-6/A2-8(opt.)	A2-8
Spindle bore dia.	58mm	62mm/87mm-opt.	87mm/102mm-opt.
Spindle speed	6000rpm	4500rpm/3500rpm-opt.	3500rpm/3000rpm-opt.
Bar capacity	45mm(1.77")	52mm/75mm-opt.	75mm/90mm-opt.
Chuck size	6"	8"/10"(opt.)	10"/12"(opt.)
<b>TRAVEL</b>			
X axis	150mm(125+25mm)	175mm(150+25mm)	275(240+35mm)
Z axis	275mm	540mm	730mm/1230mm
<b>FEEDS</b>			
Rapid traverse-X axis	15m/min(590ipm)	15m/min(590ipm)	15m/min(590ipm)
Rapid traverse-Z axis	30m/min(1181ipm)	30m/min(1181ipm)	30m/min(1181ipm)
<b>TURRET</b>			
Type	Hydraulic	Hydraulic	Hydraulic
Number of tools	8	8/12	8/10/12
Tools shank	20mm	25mm	25mm
Boring bar size	25mm	32mm	40mm
<b>TAILSTOCK</b>			
Tailstock body travel	350mm	330mm	830mm/1330mm
Quill travel	60mm	75mm	100mm
Quill dia.	70mm	70mm	80mm
Quill taper	MT#4	MT#4	MT#5

• The above specifications subject to change without prior notice.

## Control Specification:

unit : mm

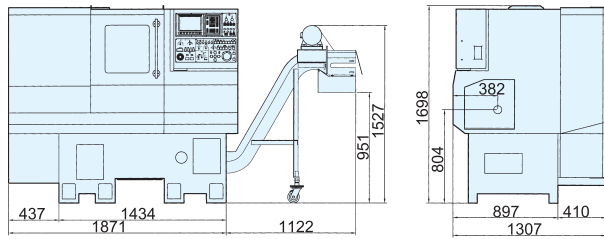
LT-05	FAGOR 8055i/A	FANUC 0i-TD	SIEMENS 828D
Spindle Servo Motor	FM7-A075 (7.5-11Kw)	$\beta$ 12i (11/15Kw)	1PH8103 (5.5Kw)
X/Z-Axis Servo Motor	FXM 33.30A (7.3Nm)	$\beta$ is8(7Nm)	1FK7063 (11Nm)
LT-06	FAGOR 8055i/A	FANUC 0i-TD	SIEMENS 828D
Spindle Servo Motor	FM7-A110 (11-15Kw)	$\alpha$ i18P (9-11Kw)	1PH8133 (15Kw)
X/Z-Axis Servo Motor	FXM 54.40A (14.8Nm)	$\beta$ is12 (11Nm)	1FK7083 (16Nm)
LT-08	FAGOR 8055i/A	FANUC 0i-TD	SIEMENS 828D
Spindle Servo Motor	FM7-A220 (22-33Kw)	$\alpha$ i30P (15/18.5Kw)	1PH8133 (15Kw)
X/Z-Axis Servo Motor	FXM 74.30A (27.3Nm)	$\beta$ is22 (20Nm)	1FK7083 (16Nm)
LT-06M	FAGOR 8055i/A-PLUS	FANUC 0i-TD	SIEMENS 828D
Spindle Servo Motor	FM7-A110 (11-15Kw)	$\alpha$ i18P (9-11Kw)	1PH8133 (15Kw)
X/Z-Axis Servo Motor	FXM 54.30A (14.8Nm)	$\beta$ is12 (11Nm)	1FK7083 (16Nm)
Live Turret Servo Motor	FXM 54.40A (4000rpm)	$\alpha$ 2i (6000rpm)	1FT7084 (6000rpm)
LT-08M	FAGOR 8055i/A-PLUS	FANUC 0i-TD	SIEMENS 828D
Spindle Servo Motor	FM7-B220 (22-33Kw)	$\alpha$ i30P (15/18.5Kw)	1PH8133 (15Kw)
X/Z-Axis Servo Motor	FXM 74.30A (27.3Nm)	$\beta$ is22 (20Nm)	1FK7083 (16Nm)
Live Turret Servo Motor	FM7-A037 (9000rpm)	$\alpha$ 3i (5000rpm)	1FT7086 (5000rpm)

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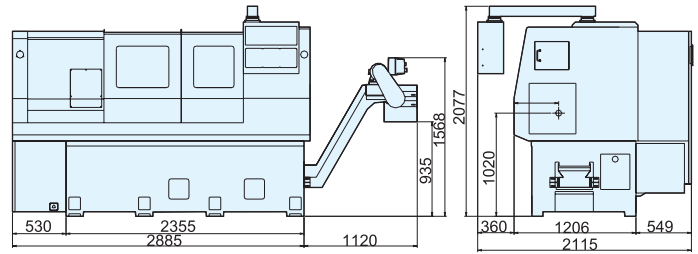
# Dimensional Drawings

unit : mm

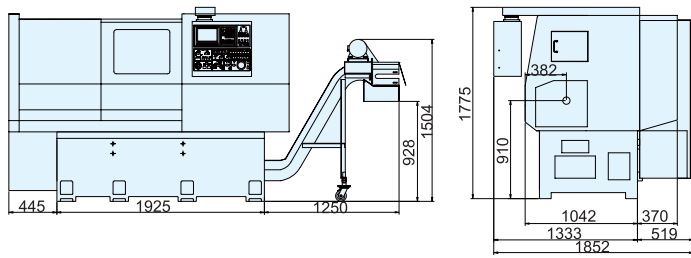
LT-05



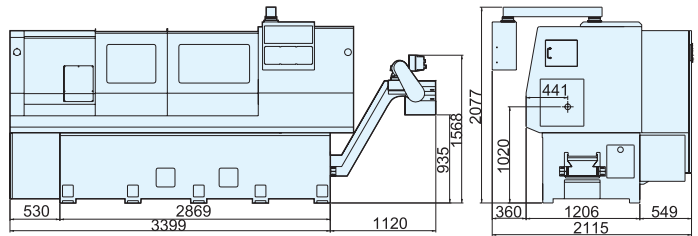
LT-08



LT-06



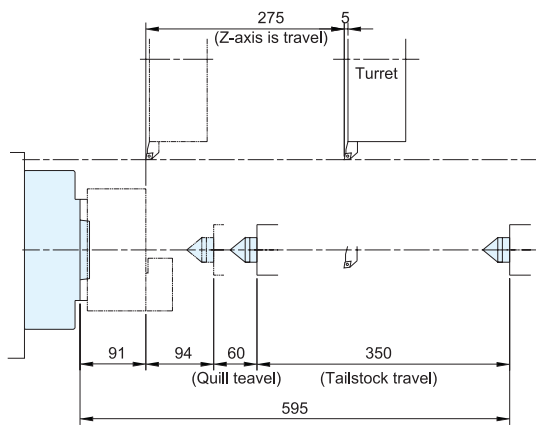
LT-08R



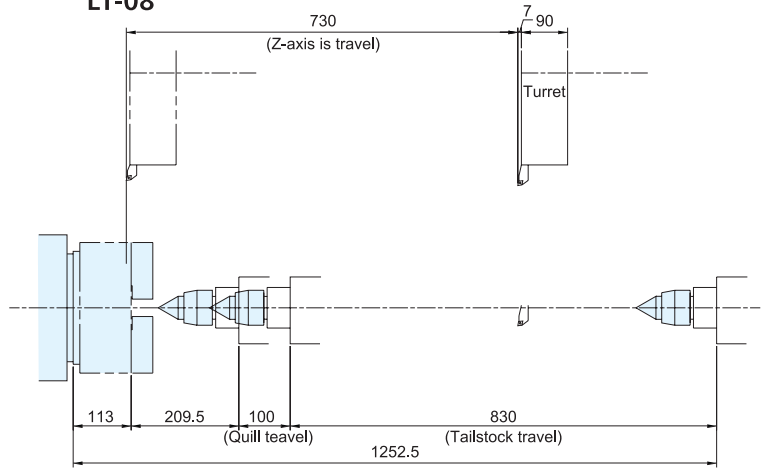
# Tool Travel Range

unit : mm

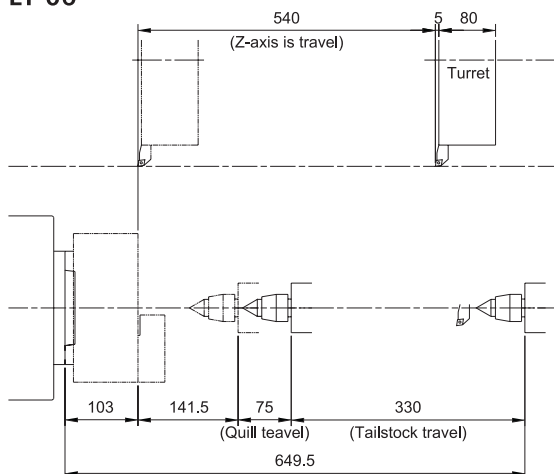
LT-05



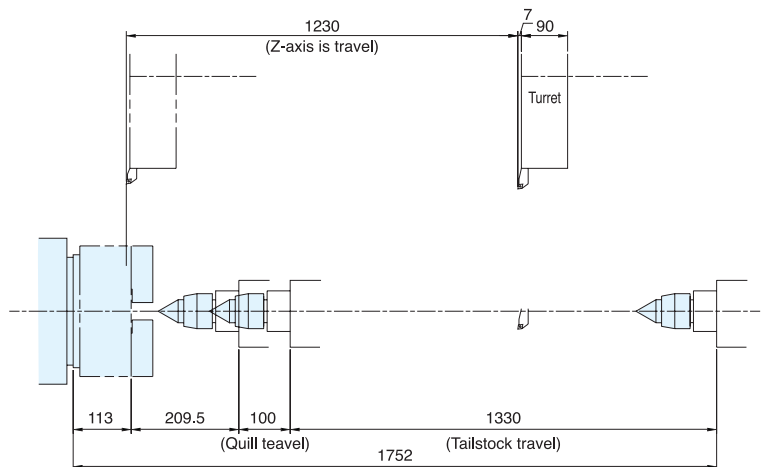
LT-08



LT-06



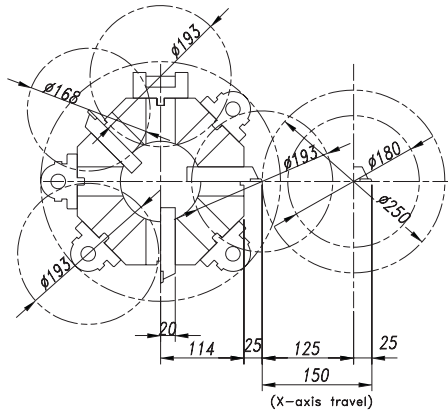
LT-08R



# Tooling Interference Diagram

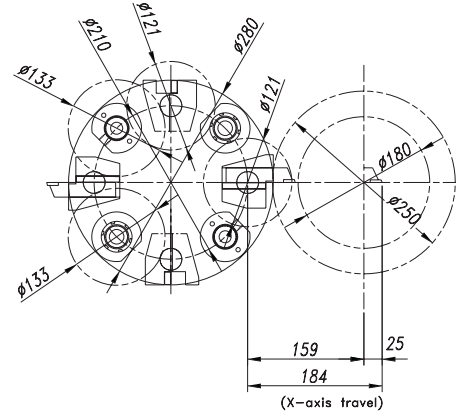
unit : mm

LT-05



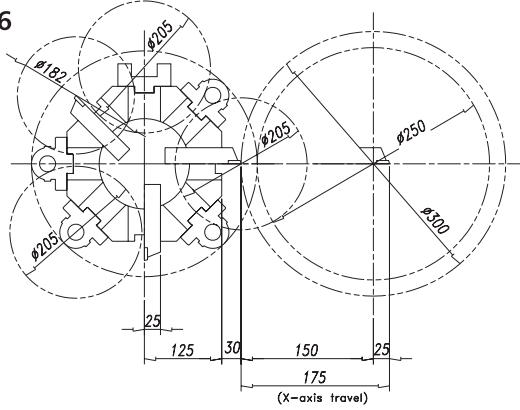
8 TOOLS

LT-05



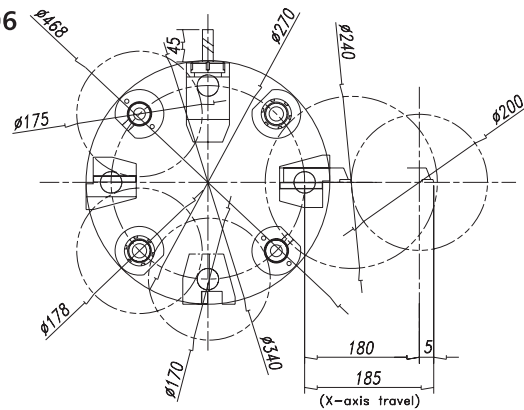
8 TOOLS / VD130

LT-06



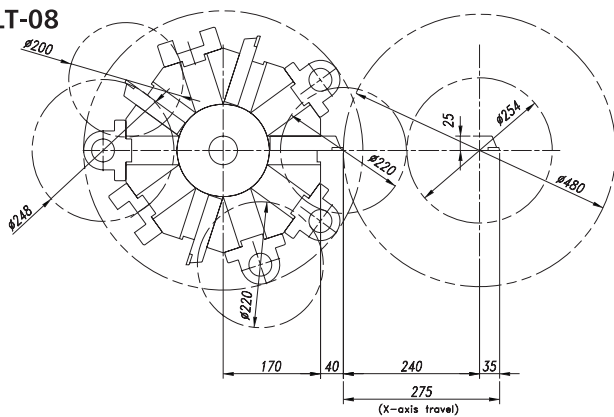
8 TOOLS

LT-06



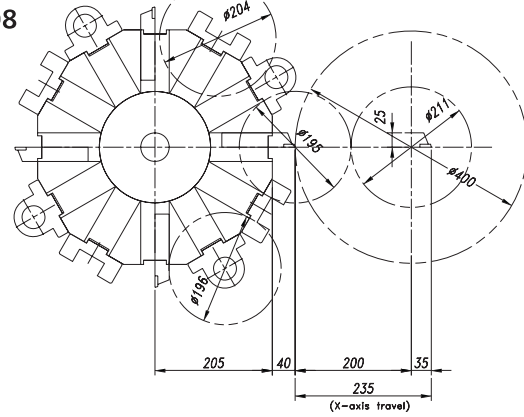
8 TOOLS / VD130

LT-08



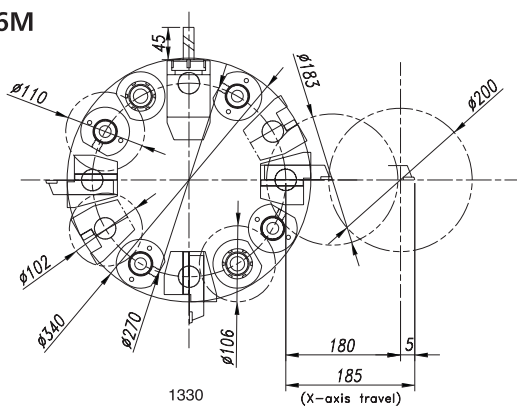
10 TOOLS

LT-08



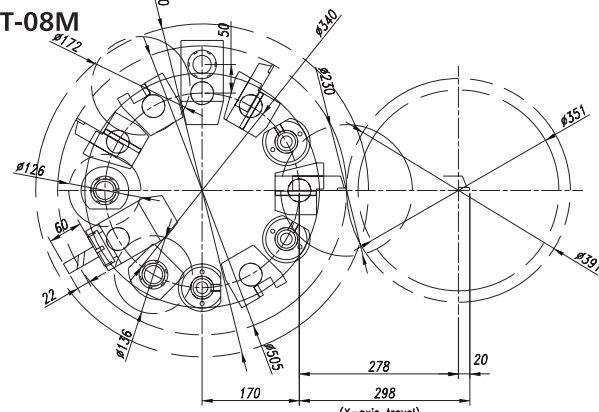
12 TOOLS

LT-06M



12 TOOLS / VD130

LT-08M



12 TOOLS / VD140



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