Technical Data

Item	Unit	LD-52	LD-65	
Capacity				
Swing over bed	mm	Ø650		
Swing over cross slide	mm	Ø380		
Max. turning diameter(with turret)	mm	Ø380		
Max. turning length(with turret)	mm	520 / 1020		
Slant bed degree	degree	30		
Bar capacity	mm	Ø52	Ø65	
Travel		045(000+45)		
X axis	mm	215(200+15)		
Y axis (option)	mm	<u> </u>		
Z axis Z2 axis	mm	520 / 1020		
	mm	5207 1020		
Primary Spindle Spindle nose		A2-6		
Spindle hole diameter		Ø66	Ø75	
Splitable chuck size(option)	mm			
Transmission	mm	200(8") Belt	200(8")	
Spindle speed	rom		4000	
Motor output	rpm kW	5000 Fanuc:11/15	4000	
Second Spindle	NVV	T driue. T/TU		
Spindle nose		A2-5		
Spindle hole diameter	mm			
Spinule note diameter Suitable chuck size(option)	mm	150(6")		
Transmission		Belt		
Spindle speed	rpm	5000		
Motor output	kW	Fanuc:7.5/11		
Turret	IXVV	1 41140.7.0711		
Number of tool stations		12		
Tool allowance(square)	mm	25 x 25		
Boring bar dia.	mm	Ø40		
Living tool(Option)		210		
Tool shank	mm	25 x 25		
Tol holder		VDI-40 / BMT55		
Power rating	kW	3.75		
Maximum speed	rpm	6000		
Axes				
X-Axis rapid feed	m/min	24		
Y-Axis rapid feed(option)	m/min	6		
Z-Axis rapid feed	m/min	24		
Z2-Axis rapid feed	m/min	24		
X-axis ballsrew	mm	Ø32 x P10 x C3		
Y-axis ballsrew	mm	Ø28 x P6 x C3		
X-axis ballsrew	mm	Ø32 x P10 x C3		
Z2-axis ballsrew	mm	Ø32 x P10 x C3		
Motor				
X axis servo motor	Nm	8		
Y axis servo motor(option)	Nm	4		
Z axis servo motor	Nm	8		
Z2 axis servo motor	Nm	8		
Coolant pump motor	W		530 (50Hz) / 750 (60Hz)	
Hydraulic pump motor	W	2200		
Lubrication pump motor	W	30		
Accuracy	· · · · · · · · · · · · · · · · · · ·			
Positioning accuracy	mm	0.01/300		
Repeatability accuracy	mm	±0.01		
Dimemsions				
Lengthw/o chip conveyor	mm	3500	4020	
Length w/ chip conveyor	mm	3985	4485	
Width	mm	3135		
Height	mm	1950		
Weight	kg			
Total power consumption	KVA	Fagor:20/ Fanuc:25/ Sie		

*Specifications are subject to change without notice.

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LD Series

Twin-Spindle Single Turret Slant Bed CNC Lathe

Flexible, Efficiency and Productivity

The LD series turning lathe is capable of multi-axis turning and milling.

The machine is well equipped with twin spindles single turret, live tooling, C-axis, Y-axis and is capable of producing high accuracy parts. Besides, this multi-functional LD series is ready to be implemented for automation. The tool setter and workpiece probe and accessories allow further setup for automated operation to reduce intensive labor costs.

This high quality twin spindle turning lathe not only can do complex machining in one-setup, but is also ideal for tasks requiring long time loading. It highly increases efficiency and productivity, and meets the diversified tasking requirement of production.

LD series is superior for one-setup production of complex works

HIGHLIGHT SPECIFICATION

Max Turning Diameter Ø380mm Max Turning Length 520/1020mm Swing over Bed Ø650mm

Primary Spindle Speed: 4000rpm(LD-65) 5000rpm(LD-52)

Second Spindle Speed 5000rpm Rapid feed rate(X/Y/Z/Z2) 24/6/24/24 m/min



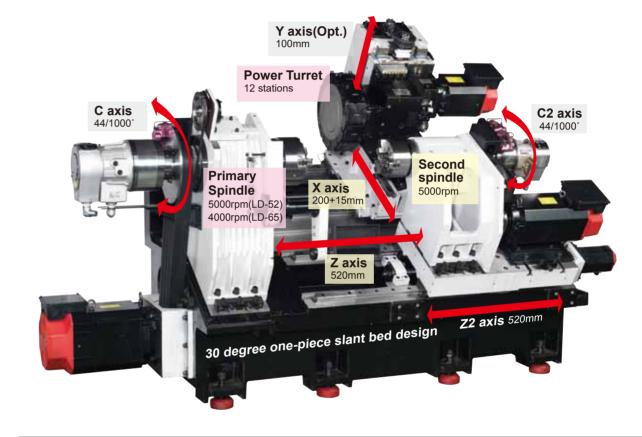
Highlight

- Apply all processes on one machine

Structure

Design for Stability

- One-piece Meehanite casting base
- Strategic ribbed bed for maximum stiffness
- 30 Degree slant bed for easy chip removal
- Ready for automation



Turret Reliable and rapid turret indexing

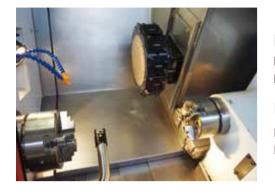
- To optimize the efficiency and utilization, turret option:
- Power turret driven by servo motor, 12 stations
- Hydraulic turret VDI-30, 12 stations
- Hydraulic turret VDI-40, 12 stations

 Headstock design with optimal heat dissipation - Compact design with small floor occupation Spacious machining area



12-Station BMT-55 Power Turret

Spindle



Fast spindle speed with Powerful 11kW spindle drive

LD-52 Primary spindle/Second spindle : 5000rpm / 5000rpm LD-65 Primary spindle/Second spindle : 4000rpm / 5000rpm

Large bar capacity

LD-52 Primary spindle/Second spindle : Ø66mm / Ø52mm LD-65 Primary spindle/Second spindle : Ø75mm / Ø52mm

High productivity for complex machining

Twin-spindle machining increases productivity by reducing part handling.

Rotary C-axis function

C-axis on twin spindles with unlimited rotational positioning allows the machine to perform complex contour machining

Easy maintenance

Cartridge type spindle is easy to replace

Highly rigid spindle with better support combined load

Four angular bearings can accept both radial and axial loads simultaneously.

Axis Transmission

The C3 precision ground ballscrews provide high accuracy and rapid feed rate. All axes are driven with AC servo motors. The high power thrust enables high accuracy cutting.

X/Z/Z2 axes

Servo motor and high precision ballscrew are directly coupled to reduce vibration.

Y axis(option)

Y-Axis transmission is driven by servo motor and belt. The servo motor is well deployed for spacesaving.

Guideway

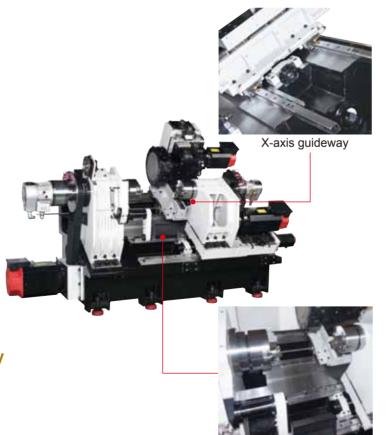
Heavy duty linear guideways supports high stability, high precision and lower vibration during heavy duty machining.

X/Z/Z2 axes ball-type linear guideway

Achieve high precision by greatly enhanced moving accuracy.

Y axis box way

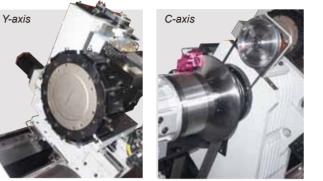
Ensures high stability during cutting



Z and Z2 axes guideway

Turning & Milling in One-Setup

The combination of turning and milling brings higher efficiency and enhances the productivity of high complex parts



High-efficient Controller



Fanuc 0iTF controller with 10.4" LCD display and Manual Guide i (Opt.)

The optimal ease-of-use controller with large screen provides easy operation. The screen and operation panel can swivel to an optimal position and the screen height is set to fit the ergonomic requirement. USB and Ethernet connection port are designed on the front panel, providing easy usage of memory card or network. The high-tech electric cabinet meets the latest CE regulation.

Accessory

Standard

- Fanuc 0iTF with 8.4" LCD Manual Guide 0i
- Main spindle motor 11/15kW
- Auxiliary spindle motor 7.5/11kW
- C axis with braking system
- Power turret, APEX PT16-16-RB-330,
- 12-station VDI30/VDI40 turret 12-station, BMT55 tooling 12-station VDI30 power turret

Option

C axis

Y axis

 Chip conveyor Air conditioner

servo turret

12-station hydraulic

turret, regular type

LD-65 primary spindle

Hydraulic collet chuck

Coolant through tool

system (20bar)

Bar feeder

- Cooling system
- Hydraulic 3-jaw chuck for LD-52 & LD-65: 8" for primary spindle; 6" for
- auxiliary spindle Foot switch for chuck operation
- Auto lubrication system
- Work lamp
- M30 program stop light
- Hydraulic unit
- Fully enclosed splash guard with interlock safety device
- Tool set & box, level pads, operation manual & parts list
- Heat exchanger for electric cabinet
- for main spindle Parts catcher

Y-axis(opt.)

The perpendicular motion of ±50mm to X-axis enables diverse and off-center machining for complicated parts.

C-axis with Braking System

Both spindles have C-axis control. C axis with hydraulic braking system provides spindle angle indexing and superior machining performance.

Oil skimmer

C2 axis

12-station VDI30 power

• 10" Hydraulic 3-jaw chuck for

Tool probe (Automatic / Manual)

 Fanuc 0iTF controller with 10.4" LCD display and Manual Guide i • FANUC α15/7000i 15/18.5 kW



Hydraulic 3-jaw chuck



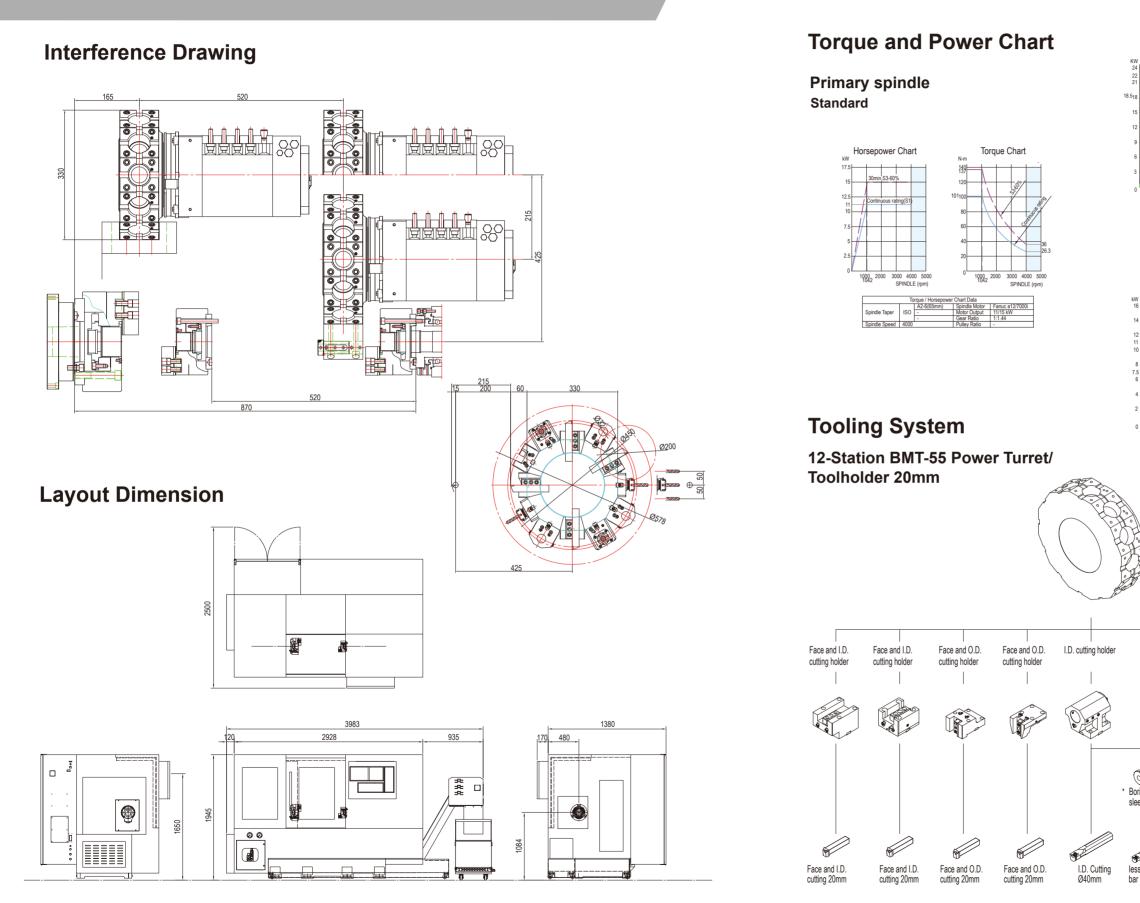
Automatic parts catcher



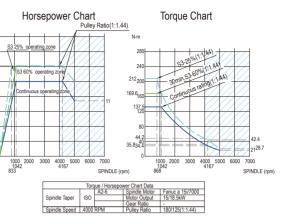
Tool probe (Automatic/ Semi-automatic)



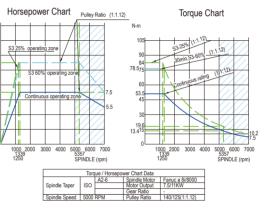
Bar feeder interface



5



Auxiliary spindle



Turret head

