



LA-250

Horizontal Turning Center Specifications

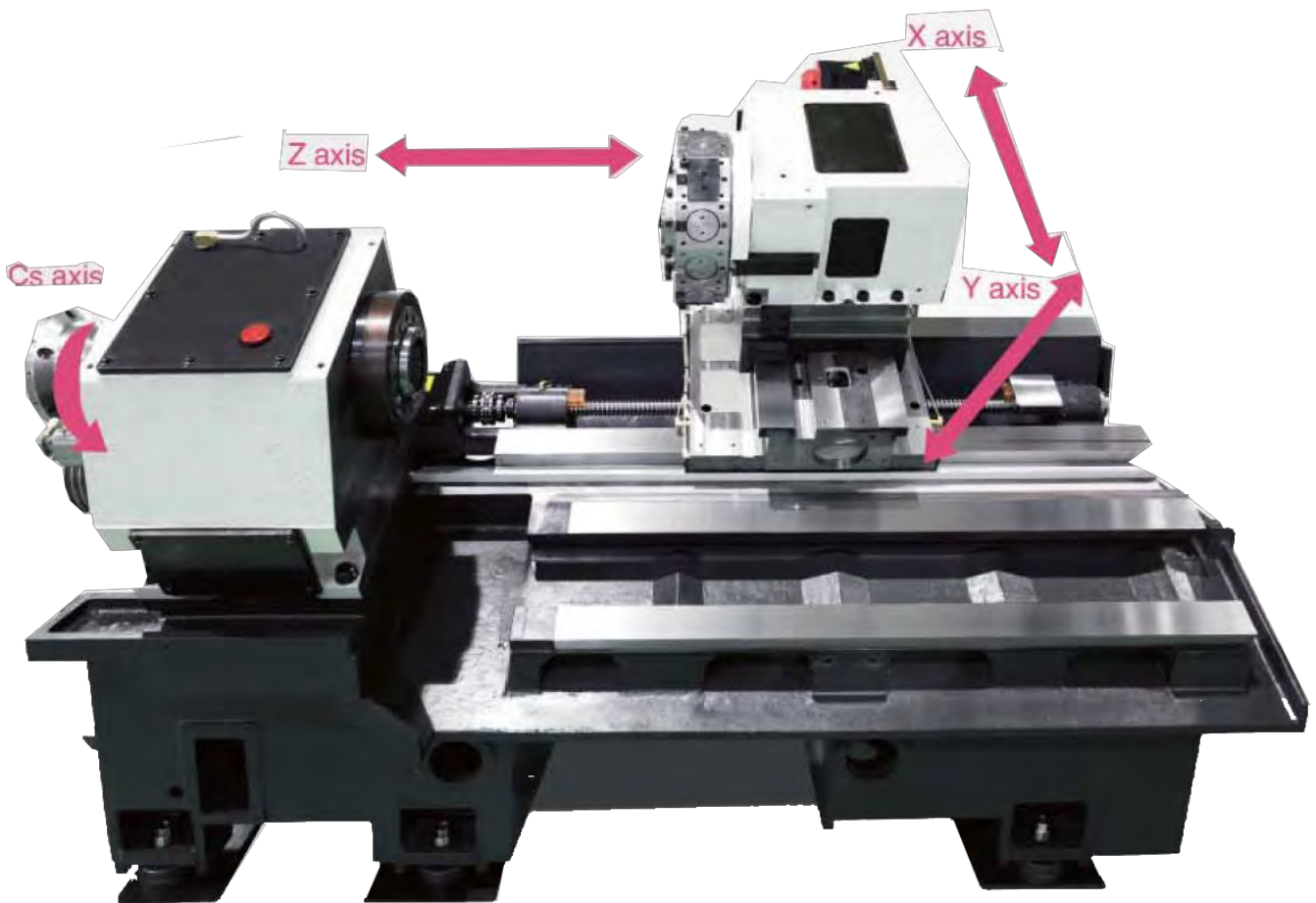


*All specifications are subject to change without prior notice
Verification of technical changes may be confirmed after receipt of order*



LA-250

The heavy duty one-piece slant bed machine base is an extremely rigid structure. The box way design promotes the highest levels of machining accuracy while allowing for ample chip flow and easy clearance of debris from the machining area.

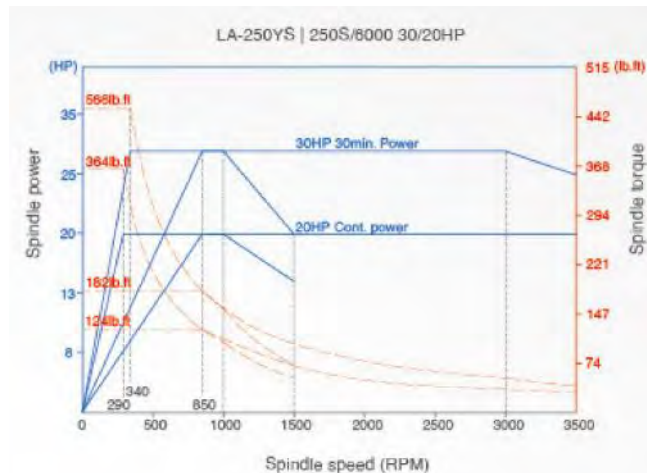
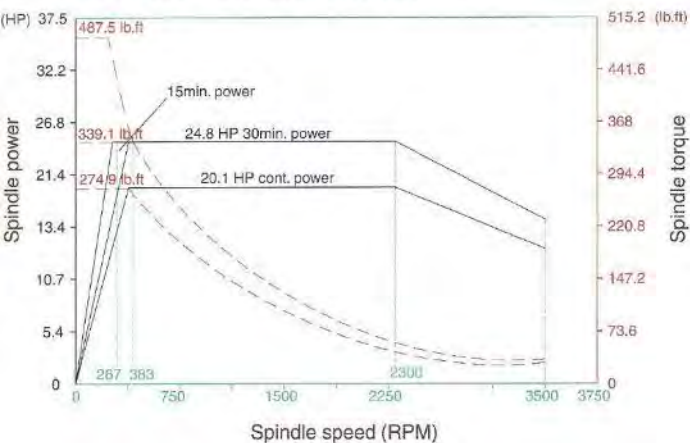




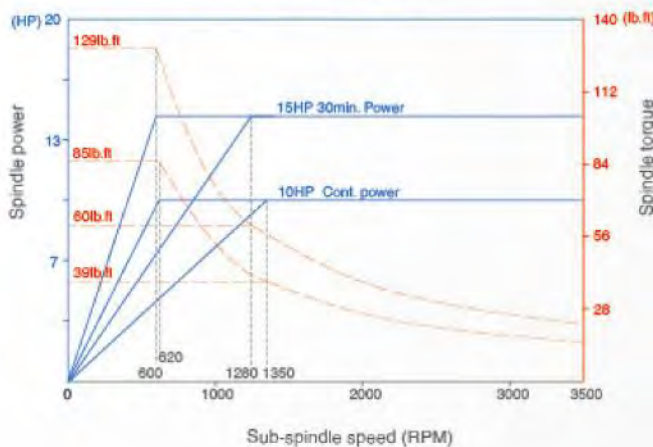
Spindle Output Diagram

Powered by FANUC MOTOR for high stability & high accuracy

LA-250, LA-250M[L], LA-250Y[L] | α 115/7000

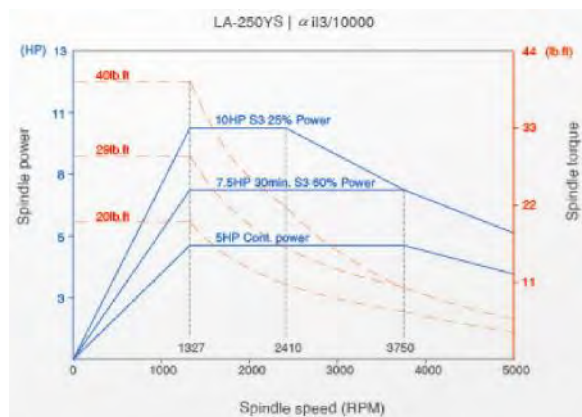
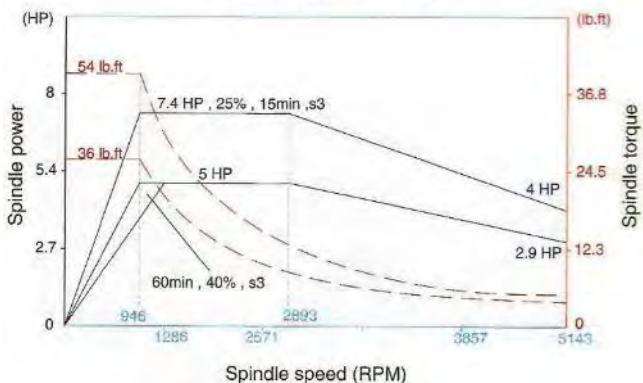


LA-250YS | 170S/6000 15/10HP

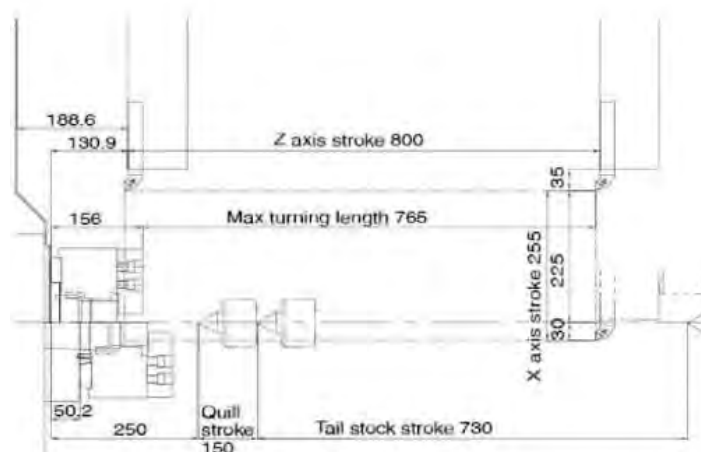


Milling Motor Output Diagram

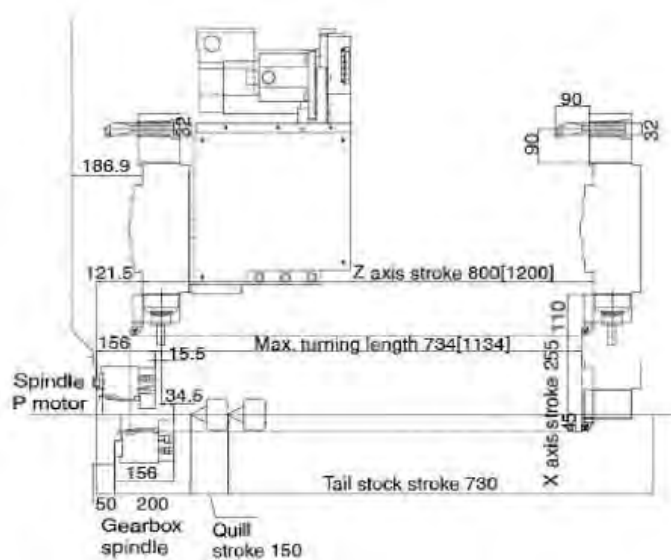
LA-250M[L], LA-250Y[L]



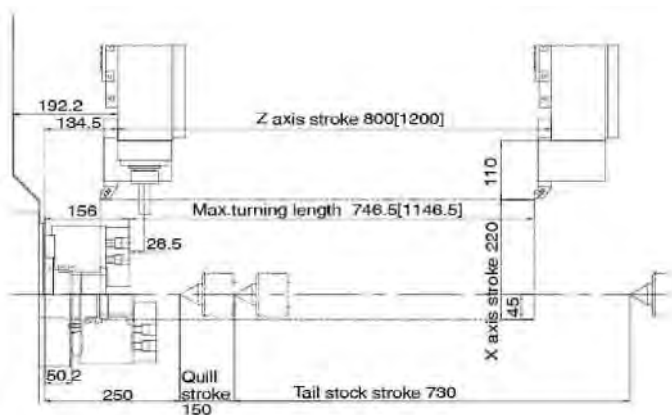
Working Range



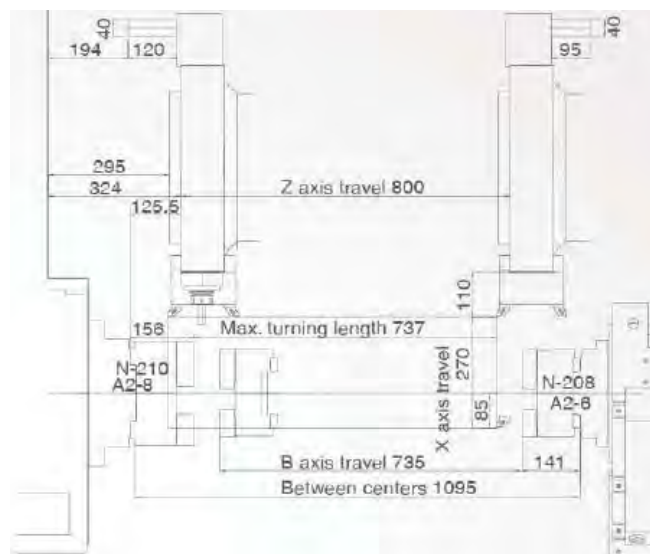
LA-250



LA-250M

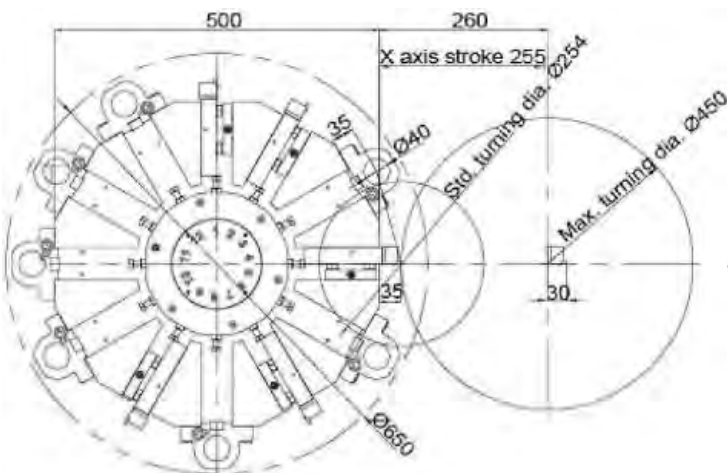


LA-250Y

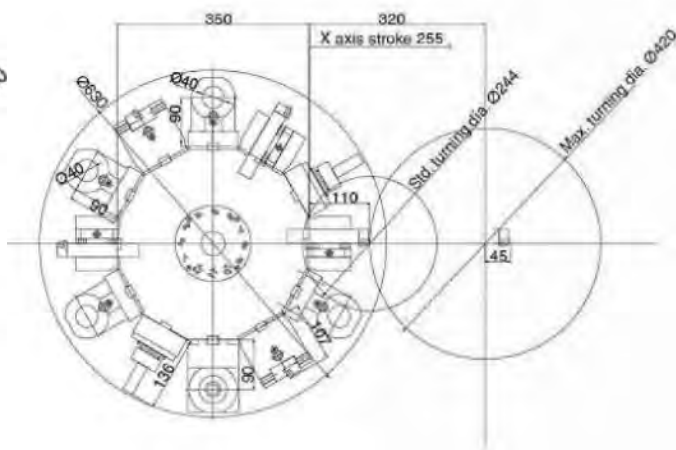


LA-250YS

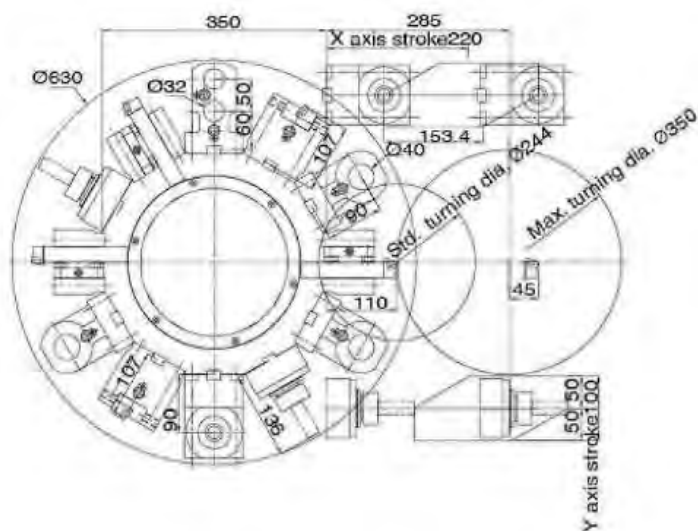
Interference Diagram



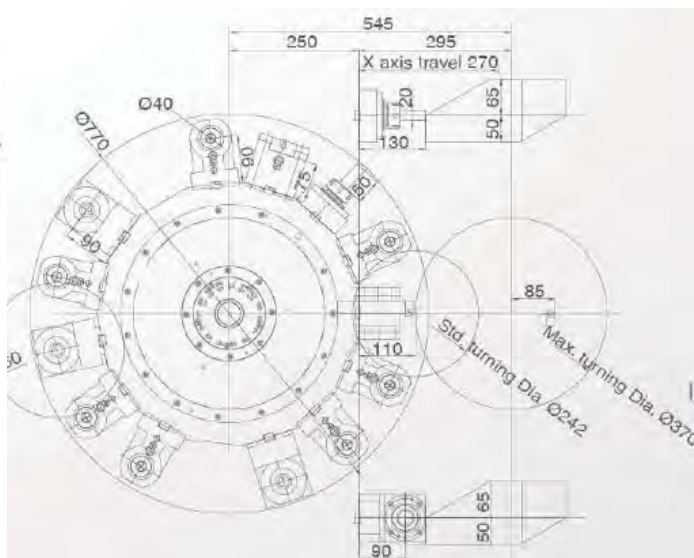
LA-250



LA-250M



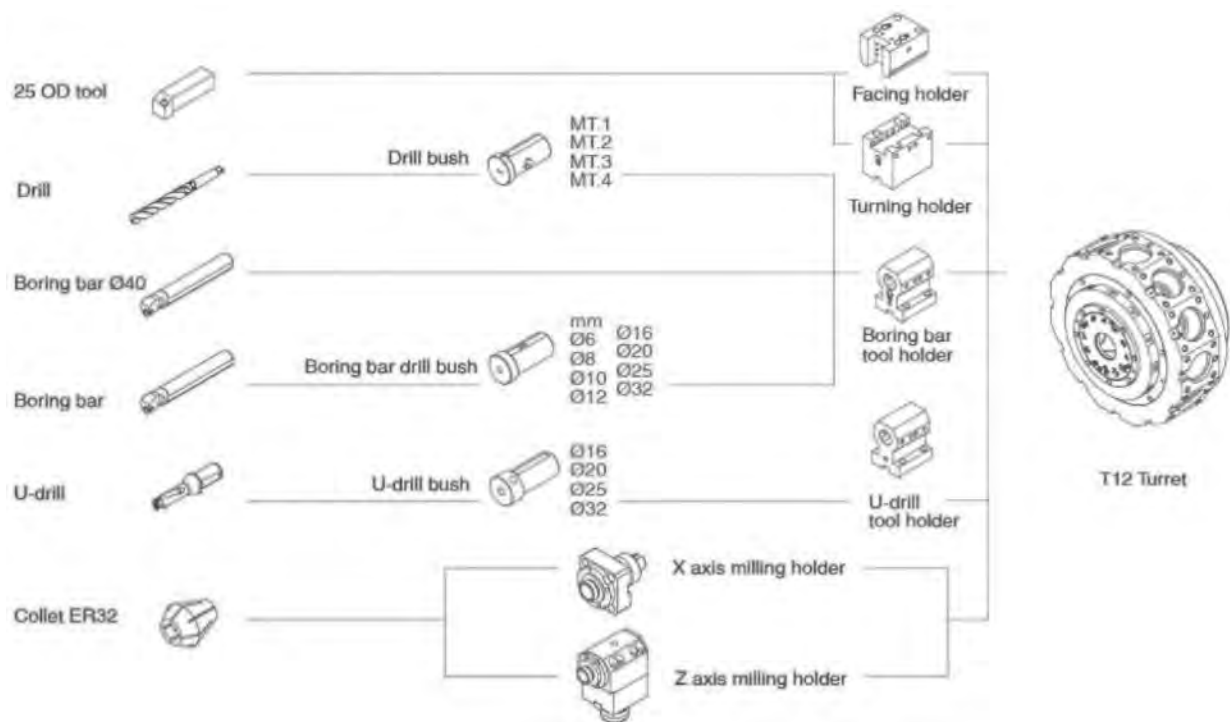
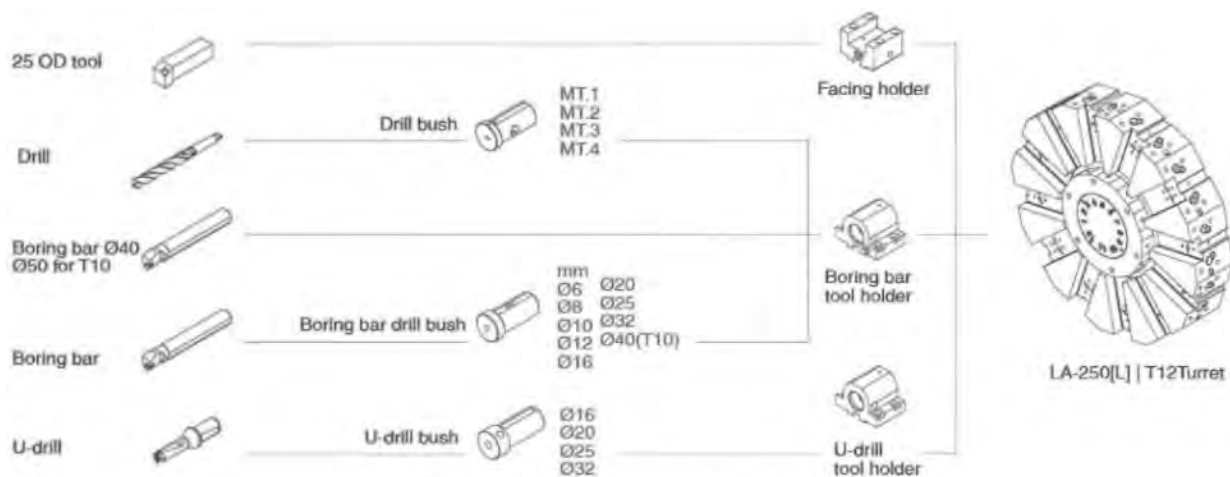
LA-250Y



LA-250YS



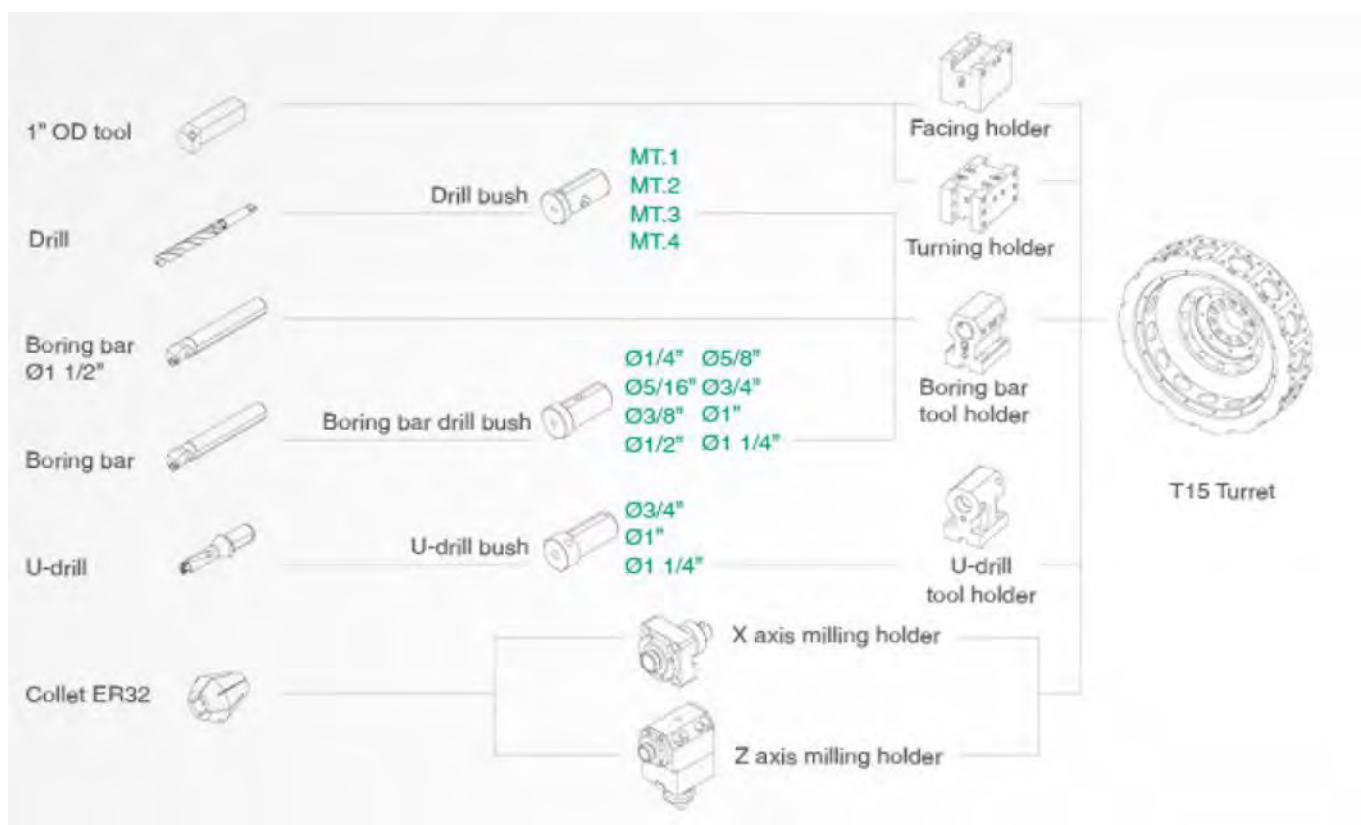
Tooling System

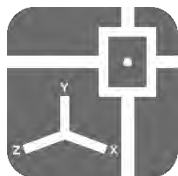




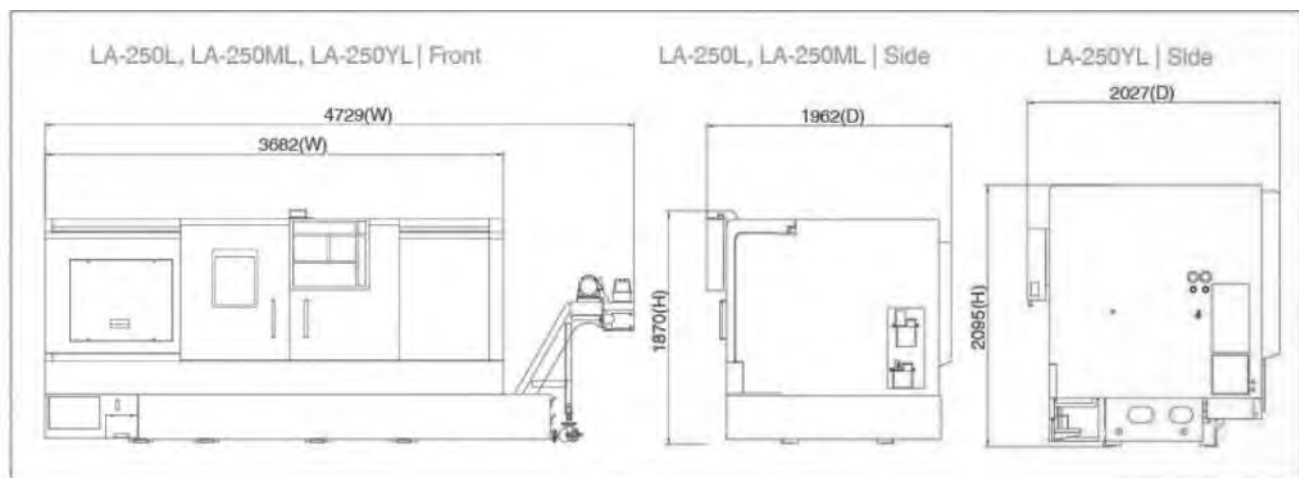
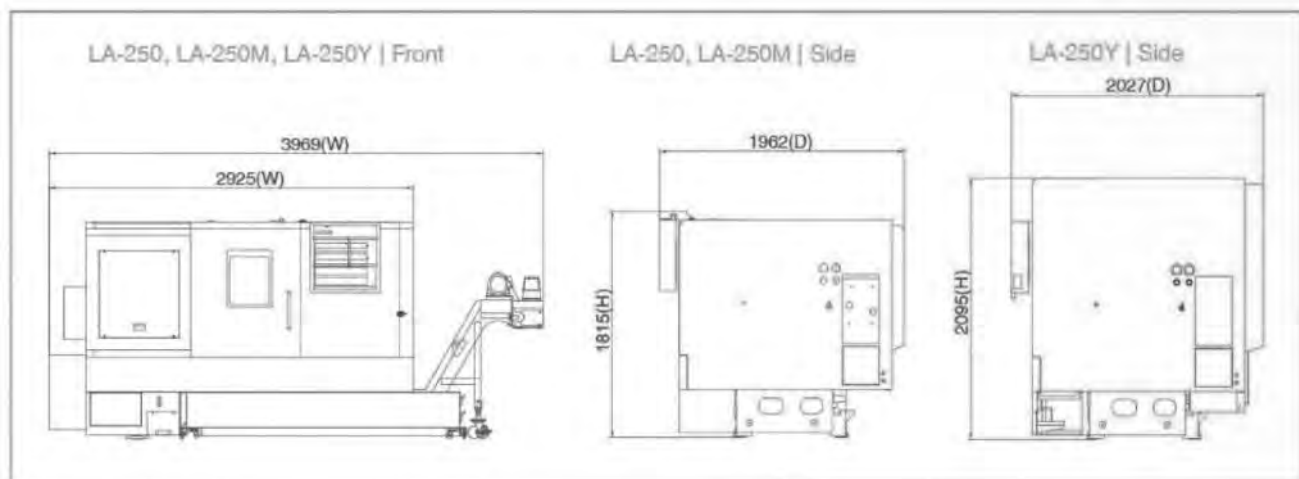
Tooling System

LA-250YS

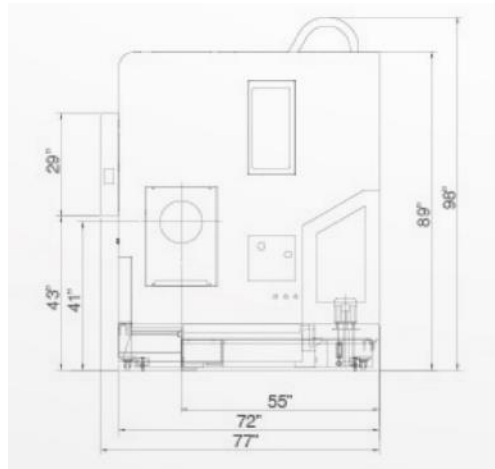
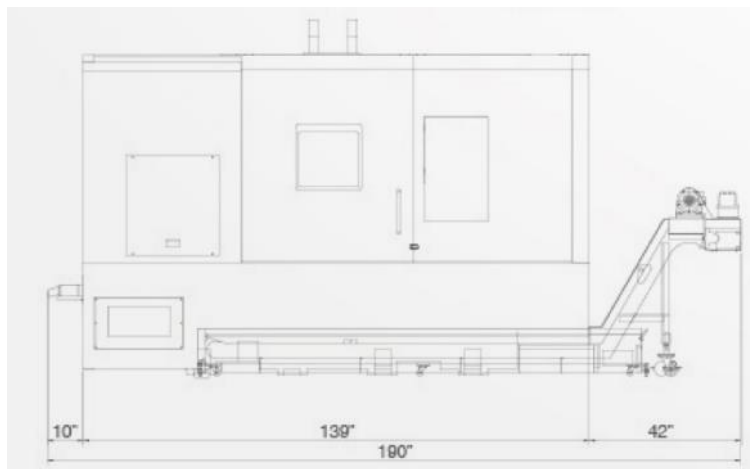




Machine Dimensions



LA-250YS



LA-250

Item	Series	LA-250		
Capacity		LA-250	LA-250M	LA-250Y
Max Swing	mm (in)	580 (22.8)		
Std Turning Dia	mm (in)	254 (10)	244 (9.6)	
Max Turning Dia	mm (in)	450 (17.7)	420 (16.5)	350 (13.8)
Max Turning Length	mm (in)	765 (29.8)	734 (28.6)	746.5 (29.4)
Max Bar Work Capacity	mm (in)	76.2 (3)		
Travel				
X Axis Travel	mm (in)	255 (10)		220 (8.7)
Z Axis Travel	mm (in)	800 (31.5)		
Y Axis Travel	mm (in)	---		±50 (±2)
Spindle				
Spindle Speed	rpm	3500		
Chuck Size	in	10"		
Spindle Nose		A2-8		
Through Hole Dia.	mm (in)	86 (3.4)		
Bearing Dia.	mm (in)	120 (4.7)		
Turret				
Number of Tool Stations		12		
Turning tool shank	mm (in)	25.4 (1)		
Boring Bar Shank Dia.	mm (in)	38.1 (1.5)		
Milling Tool Shank Dia	mm (in)	---	19.05 (0.75)	
Tailstock				
Tailstock Travel	mm (in)	730 (28.7)		
Tailstock Spindle Dia.	mm (in)	110 (4.3)		
Quill Taper		MT#5		
Tailstock Spindle Travel	mm (in)	150 (5.9)		
Feedrate				
X Axis rapid traverse rate	m/min (ipm)	16 (630)		
Z Axis rapid traverse rate	m/min (ipm)	20 (787)		
Y Axis rapid traverse rate	m/min (ipm)	---		8 (315)
Motor				
Spindle Drive Motor	kW (HP)	18.6/15 (25/20)		
Milling Motor	kW (HP)	---	3.7/5.5 (7.5/5)	
Turret Index Motor	kW (HP)	1.2 (1.6)		
X Axis Drive Motor	kW (HP)	1.8 (2.4)		2.5 (3.6)
Z Axis Drive Motor	kW (HP)	2.5 (3.6)		
Y Axis Drive Motor	kW (HP)	---		2.5 (3.6)
Size				
Length	mm (in)	2925 (115)		
Height	mm (in)	1815 (71)		2095 (82)
Width	mm (in)	1962 (77)		2027 (80)
Weight	kg (lb)	4500 (9925)	4550 (10035)	6200 (13670)

Item	Series	LA-250		
Capacity		LA-250L	LA-250ML	LA-250YL
Max Swing	mm (in)	580 (22.8)		
Std Turning Dia	mm (in)	254 (10)	244 (9.6)	
Max Turning Dia	mm (in)	450 (17.7)	420 (16.5)	350 (13.8)
Max Turning Length	mm (in)	1117.6 (44)	1082.04 (42.6)	1096.74 (43.1)
Max Bar Work Capacity	mm (in)	76.2 (3)		
Travel				
X Axis Travel	mm (in)	254 (10)		220 (8.7)
Z Axis Travel	mm (in)	1200 (47.2)		
Y Axis Travel	mm (in)	---		±50 (±2)
Spindle				
Spindle Speed	rpm	3500		
Chuck Size	in	10"		
Spindle Nose		A2-8		
Through Hole Dia.	mm (in)	86 (3.4)		
Bearing Dia.	mm (in)	120 (4.7)		
Turret				
Number of Tool Stations		12		
Turning tool shank	mm (in)	25.4 (1)		
Boring Bar Shank Dia.	mm (in)	38.1 (1.5)		
Milling Tool Shank Dia	mm (in)	---	19.05 (0.75)	
Tailstock				
Tailstock Travel	mm (in)	1130 (44.5)		
Tailstock Spindle Dia.	mm (in)	110 (4.3)		
Quill Taper		MT#5		
Tailstock Spindle Travel	mm (in)	150 (5.9)		
Feedrate				
X Axis rapid traverse rate	m/min (ipm)	16 (630)		
Z Axis rapid traverse rate	m/min (ipm)	20 (787)		
Y Axis rapid traverse rate	m/min (ipm)	---		8 (315)
Motor				
Spindle Drive Motor	kW (HP)	18.6/15 (25/20)		
Milling Motor	kW (HP)	---	3.7/5.5 (7.5/5)	
Turret Index Motor	kW (HP)	1.2 (1.6)		
X Axis Drive Motor	kW (HP)	1.8 (2.4)		2.5 (3.6)
Z Axis Drive Motor	kW (HP)	2.5 (3.6)		
Y Axis Drive Motor	kW (HP)	---		2.5 (3.6)
Size				
Length	mm (in)	3682 (145)		
Height	mm (in)	1870 (74)		2095 (82)
Width	mm (in)	1962 (77)		2027 (80)
Weight	kg (lb)	7450 (16430)	7500 (16540)	9300 (20510)

Item	Series	LA-250YS
Capacity		
Max Swing	mm (in)	600 (23.6)
Std Turning Dia	mm (in)	240 (9.5)
Max Turning Dia	mm (in)	370 (14.6)
Max Turning Length	mm (in)	737 (29)
Between Centers	mm (in)	1080 (43.1)
Travel		
X Axis Travel	mm (in)	270 (10.6)
Z Axis Travel	mm (in)	800 (31.4)
Y Axis Travel	mm (in)	±65-50 (±2.6-2)
B Axis Travel	mm (in)	734.06 (28.9)
Spindle		
Spindle Speed	rpm	3500
Chuck Size	in	10"
Spindle Nose		A2-8
Max. bar work capacity	mm (in)	76.2 (3)
Through Hole Dia.	mm (in)	102 (4)
Bearing Dia.	mm (in)	132.08 (5.5)
Sub-Spindle		
Spindle Speed	rpm	3500
Chuck Size	in	8"
Spindle Nose		A2-6
Max. bar work capacity	mm (in)	127 (5)
Through Hole Dia.	mm (in)	76.2 (3)
Bearing Dia.	mm (in)	110 (4.3)
Turret		
Number of Tool Stations		15 [12]
Turning tool shank	mm (in)	25.4 (1) [31.75 (1.25)]
Boring Bar Shank Dia.	mm (in)	38.1 (1.5) [50.8 (2)]
Milling Tool Shank Dia	mm (in)	19.05 (0.75) [25.4 (1)]
Feedrate		
X Axis rapid traverse rate	m/min (ipm)	20 (787)
Z Axis rapid traverse rate	m/min (ipm)	20 (787)
Y Axis rapid traverse rate	m/min (ipm)	10 (393)
B Axis rapid traverse rate	m/min (ipm)	20 (787)
Motor		
Spindle Drive Motor	kW (HP)	22/15 (30/20)
Sub-Spindle Drive Motor	kW (HP)	11/7.5 (15/10)
Milling Motor	kW (HP)	7.5/3.7 (10/5)
Turret Index Motor	kW (HP)	1.2 (1.6)
X Axis Drive Motor	kW (HP)	3 (4)
Z Axis Drive Motor	kW (HP)	3 (4)
Y Axis Drive Motor	kW (HP)	3 (4)
B Axis Drive Motor	kW (HP)	2.5 (3.6)
Size		
Length	mm (in)	3535 (139)
Height	mm (in)	2250 (89)
Width	mm (in)	1965 (77)
Weight	kg (lb)	8000 (17640)

Control Specification: FANUC 0i-TF

CONTROL	SIMULTANEOUSLY CONTOURING CONTROLLED 2 AXIS
	LEAST INPUT INCREMENT: 0.001MM/0.0001 INCH
	LEAST COMMAND INCREMENT: 0.001MM/0.0001 INCH
FEED	FEEDRATE OVERRIDE: 0.254%
	DWELL: G04
	ORIGINAL POINT RETURN: G27, G28, G30
	MANUAL HANDLE FEED RATE: 0.001/0.01/0.1MM
	DRY RUN
	RAPID TRAVERSE OVERRIDE: F0, 25%, 50%, 100%
	FEED PER MINUTE/FEED PER REVOLUTION: G98, G99
TOOL FUNCTIONS	TOOL NUMBER DISPLAY
	TOOL NOSE RADIUS COMPENSATION
	TOOL OFFSET PAIRS: 64 PAIRS
	TOOL OFFSET
PROGRAMMING FUNCTIONS	ABSOLUTE/INCREMENTAL PROGRAMMING
	MULTIPLE REPETITIVE CYCLE: G70~G76
	CANNED CYCLES: G90, G92, G94
	DECIMAL POINT INPUT
	INCH/METRIC CONVERSION
	CHAMFERING/CORNER R
	CIRCULAR INTERPOLATION BY R PROGRAMMING
	SUB-PROGRAM CALL
	COORDINATE SYSTEM SETTING
	MANUAL GUIDE 0i
	WORK PIECE COORDINATE SYSTEM G52—G59
	CONSTANT SURFACE SPEED CONTROL
	AUXILIARY FUNCTION
	INPUT CODE: EIA/ISO AUTOMATIC RECOGNITION
	INPUT/OUTPUT INTERFACE: RS 232C
	PART PROGRAM STORAGE LENGTH: 320M
	NUMBER OF REGISTERABLE PROGRAMS: 400
	SEARCHING FUNCTION
	LABEL SKIP
	PARITY CHECK
	OPTIONAL BLOCK SKIP
OTHER	MDI/CRT UNIT: 8.4" LCD COLOR
	STORED STROKE CHECK
	BACKGROUND EDITING
	HELP FUNCTION
	LOAD METER
	SELF-DIAGNOSIS FUNCTION
	1st SPINDLE ORIENTATION
	LOAD INSPECTION FUNCTION
	SAFETY CLUTCH FOR CRASH PROTECTING

Standard Equipment

- FANUC Oi-TF Control
- 10" 3 jaw thru-hole power chuck with one set of soft jaws
- 8" 3 jaw power chuck with one set of soft jaws **(YS spec only)**
- Geared variable speed 25 HP spindle
- Integral variable speed 25 HP spindle **(YS spec only)**
- Integral variable speed 15 HP sub spindle **(YS spec only)**
- 12 Station servo motor driven bi-directional indexing turret
- 15 station servo motor driven bi-directional indexing turret **(YS spec only)**
- Programmable tailstock quill, programmable (drag) positioning tailstock (Except for LA-250YS)
- Hinged Belt Type Lift-Up Chip Conveyor, Right Side Discharge
- Bar Feeder Interface
- End face tool holder 2 pcs (1")
- Boring bar tool holder 4 pcs (1.5")
- Wedge for OD tool 12 pcs
- Live tool holder ER32 one set each axis X&Z **(M/Y/YS spec only)**
- One full set of bushings, one set each size
- G54-G59 Workpiece Coordinate System
- Safety Door Interlock and Safety Logic
- Halogen Work Light
- 3-Color Operation Status Light
- Auto Slide Way Lubrication System
- One(1) set Leveling Pads
- One(1) set of Adjusting Tools and Tool Box
- Manuals: Operation, Control, Parts List, Electrical Diagram