YOPM

RISE TO WIN

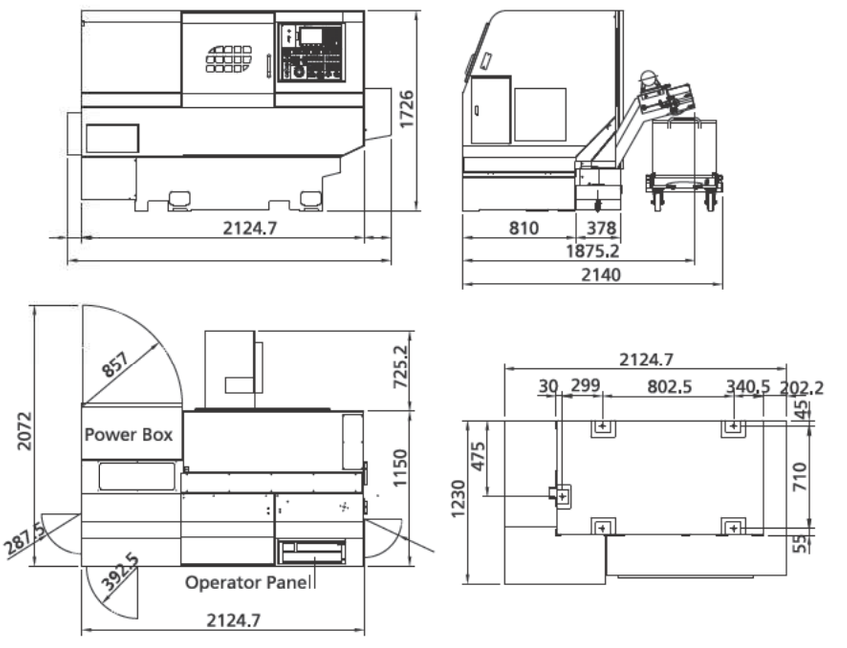
ML-SERIES

LATHE

ML-330 (SL-120)

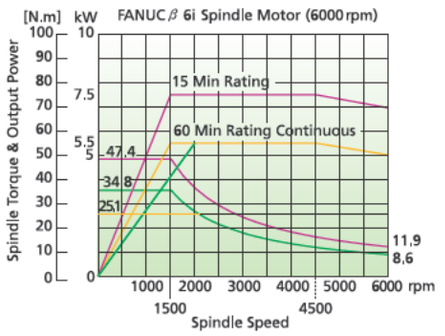
Linear Guide Way Lathe

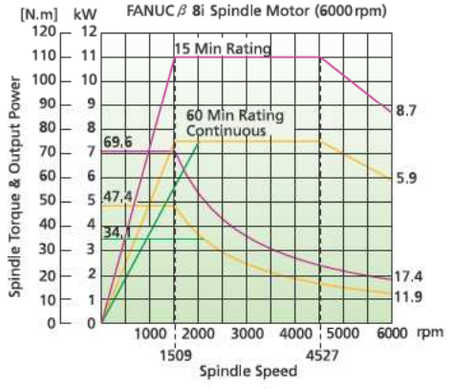
Dimensional Drawings



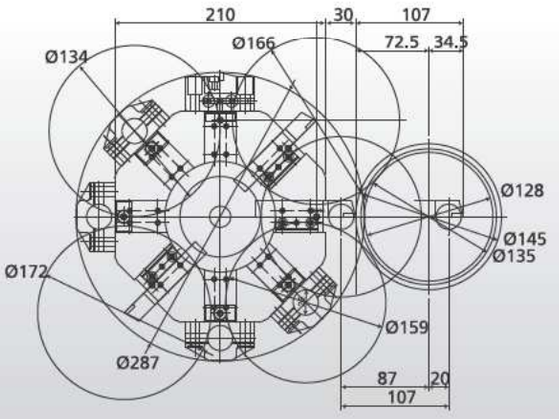
YDPM Be a World Player!

Spindle Torque Diagram

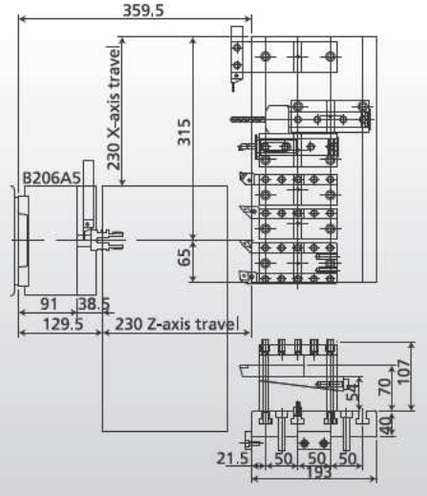




Tool Interference Diagram (8 Tools)



Work Envelope



Machine Specifications

ITEM		ML-330 (SL-120)	
		Gang Type	Turret Type
CAPACITY	Swing Over Bed	ø330 (ø13)	
	Swing Over Slide	ø136 (ø5.4)	ø135 (ø5.3)
	Max. Machining Diameter x Length	ø135 x 150 (ø5.3 x 5.9)	ø128 x 130 (ø5.0 x 5.1)
MACHINE BODY	Slant Angle of Bed	45°	
	Max. Travel Range of Z/X-axis	230 / 230 (9.1 x 9.1)	230 / 107 (9.1 x 4.2)
	Servo Motor of Z/X-axis	1.2 / 1.2 kW	
	Rapid Traverse Rate of Z/X-axis	30 / 30 m/min (1181 / 1181 ipm)	
SPINDLE	Diameter of Spindle Front Bearing Bore	ø80 (ø3.2)	
	Diameter of Spindle Bore / Bar Capacity	ø45 / ø35 (ø1.77 / ø1.38)	
	Spindle Nose Type	ASA A2-5	
	Taper of Spindle Bore	1/20	
	Spindle Motor	7.5 / 11 kW (10 / 14.7 HP)	
	Spindle Speed	STD: 6000 rpm	
	Diameter of Chuck	STD: 6" Hydraulic	
TOOLS TURRET	Type	Gang Type	Turret Type
	Tool Capacity	6 pcs	8 pcs
	Tool Shank Post	16 x 16 (5/8 x 5/8)	16 x 16 (5/8 x 5/8)
	Boring Diameter Post	ø25 / 2 pcs (ø1/2 pcs)	ø25 / 4 pcs (ø1/4 pcs)
	Radial Tool Post	16 x 16 (5/8 x 5/8) 1pcs	-
	Axial Tool Post	-	-
	Dual Tool Post	-	-
HYDRAULIC TAILSTOCK	Quill Diameter	-	
	Tailstock Travel	-	
	Quill Type	-	
	Quill Taper	-	
	Quill Stroke	-	
DRIVE MOTOR	Coolant Moter	960 W	
	Hydraulic Motor	745 W (1 HP)	
	Chip Conveyor Motor	215 W (1/4 HP)	
ACCURACY	Positioning (Z/X)	±0.005	
	Repeatability (Z/X)	±0.002	
MISCELLANEOUS	Power Requirement	208-220 Volt / 9KVA / 50 Amps	
	Height From Bed to Spindle Center	900 (35.4)	
	Height From Floor to Spindle Center	255 (10)	
	Floor Area (W x D) (incl. Conveyor)	2125 x 2140 (83.6 x 84.3)	
	Packing Diameter (W x D x H)	2380 x 2280 x 2030 (93.7 x 89.8 x 79.9)	
	Net Weight (incl. Chip Conveyor)	2250 kgs (4950 lbs)	
	Gross Weight (incl. Chip Conveyor)	2400 kgs (5280 lbs)	

Note: Specifications are subject to change without further notice.

Standard Accessories

1. Fanuc 0i-Mate Controller
2. Spindle Speed: 6000 rpm
3. Spindle Motor: 7.5 / 11 kW
4. 6" Hydraulic Chuck
5. 6 Sets Gang Type Tool Holder (□16 x16)
6. Coolant System
7. Leveling Bolts and Pads
8. Grease Lubrication System
9. Work Lamp
10. End of Program Light
11. Tool Kit
12. One Set of Soft Jaws
13. Operator's Manual
14. Maintenance Manual
15. Programming Manual
16. Parts List

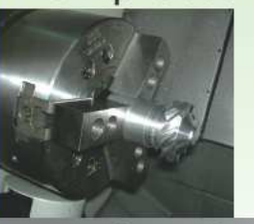
Optionals

1. Fanuc 0i-TD Controller
2. Siemens Controller
3. Mitsubishi Controller
4. 6" Hydraulic Chuck (KITAGAWA)
5. One Set of Hard Jaws
6. Hydraulic 8-Tool Turret
7. Taper Sleeve (MT No.1 & MT No.2) x O.D. 25
8. Boring Bar Bushings (Ø 8, Ø 10, Ø 12, Ø 16, Ø 20) x O.D. 25
9. Internal Turning Tool Post (□16 x16)
10. Chain Type Chip Conveyor + Chip Bucket
11. Parts Catcher
12. Collet Chuck
13. Bar Feeder
14. Bar Feeder Interface
15. Oil Mist Collector
16. Transformer
17. Automatic Lubrication System

ML-480 (SL-200)

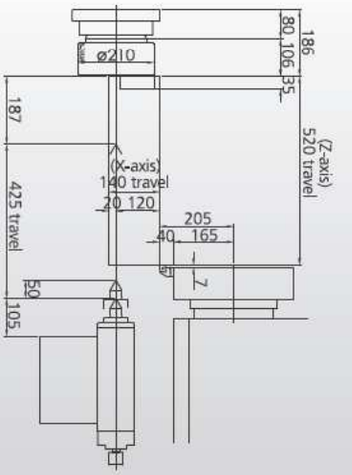
Linear Guide Way Lathe

Workpieces

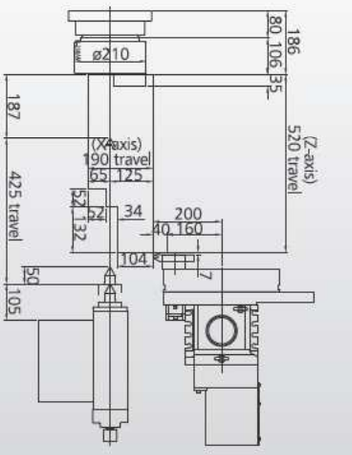


Work Envelope

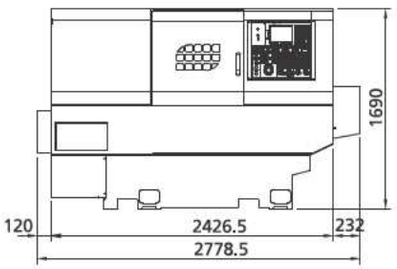
ML-480

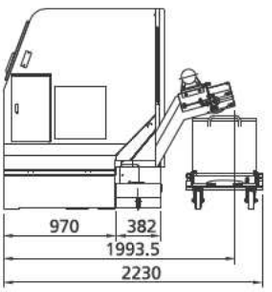


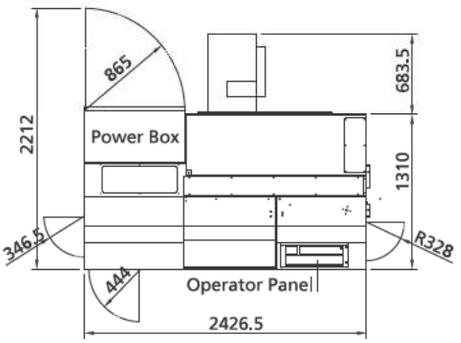
ML-480C

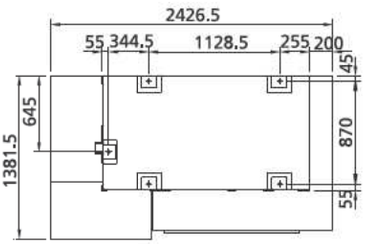


Dimensional Drawings









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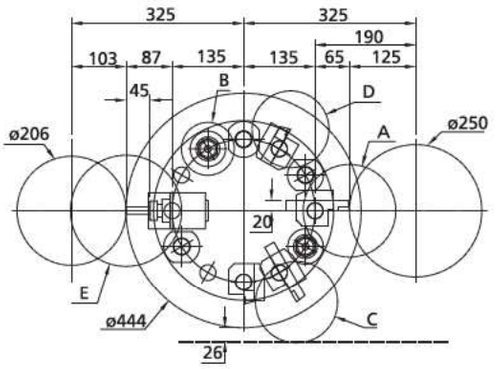
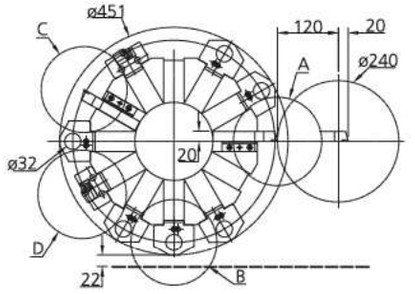
Tool Interference Diagram

ML-480C

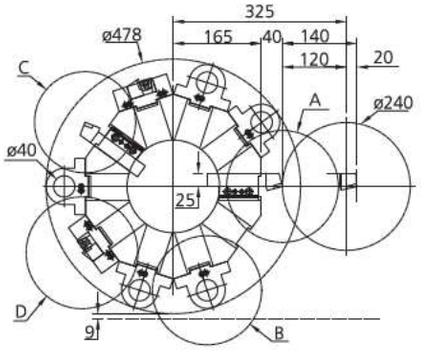


Capacity	Dimension				
	A	B	C	D	E
8-Tool	245	170	235	215	280
12-Tool	175	100	155	145	210

ML-480



Capacity	Dimension			
	A	B	C	D
12-Tool	175	170	235	215



Capacity	Dimension			
	A	B	C	D
8-Tool	265	265	240	275
12-Tool	210	205	190	210

Machine Specifications

ITEM		ML-480 (SL-200)	
		Standard	C-axis
CAPACITY	Swing over bed	Ø 480	
	Swing over saddle	Ø 370	
	Distance between center	615 (A2-6)	
	Max. machining dia.	Ø240	Ø250
	Max. machining length	470 (A2-6)	
	Distance between noses		
	Slant angle of bed	45°	
TRAVEL RANGE	X-axis	140 (120+20)	190 (125+65)
	Y-axis		
	Z-axis	520	
	C-axis	360° (0.001°)	
	W-axis		
SPINDLE	Spindle speeds (rpm)	0~4500 (A2-6)	
	Spindle nose	A2-6	
	Spindle bore dia.	Ø62 (A2-6)	
	Front bearing dia.	Ø100 (A2-6)	
	Bar capacity	52	
	Chuck diameter	ø8"	
TURRET	Type	Hydraulic OPT: Servo VDI	Live-tooling
	Stations	STD: 10 OPT: 8/12	STD: 12 OPT: 8
	Model	LS-160A LS-160SV	LS-160SP
	Square tool shank	25	20
	Boring bar shank diameter	ø40	ø32
	Indexing time (0~180 °) (sec)	2.4	0.85
LIVE-TOOL	Spindle speeds (rpm)		50~4000
FEEDRATE	Rapid traverse (M/min)	X:30, Z:30	
TAILSTOCK	Quill diameter	Ø65	
	Tapered bore type	MT-4	
	Quill travel	50	
MOTORS	Main spindle (kW)	STD: β 12/7000i 11/15 OPT: α 8/8000i 7.5/11	
	Sub-spindle (kW)		
	Live-tool (kW)		α 2 (2.2/3.7)
	X/Z-axis servo motor (kW)	X: β 12 1.8; Z: β 12 1.8	
	Hydraulic oil pump (kW)	0.745	
	Chip conveyor (kW)	0.2	
	Coolant pump (kW)	0.96	
ACCURACY	Positioning (mm)	±0.003	
	Repeatability (mm)	±0.002	
POWER	Requirement (KVA)	15	
MACHINE SIZE	Height	1690	
	Floor space (L x W)	2776 x 1994	
	Packing (w/conveyor)	2930 x 2270 x 1650	
	Net weight (w/conveyor) (kgs)	2900	
	Gross weight (w/conveyor) (kgs)	3120	

Note: Specifications are subject to change without further notice.

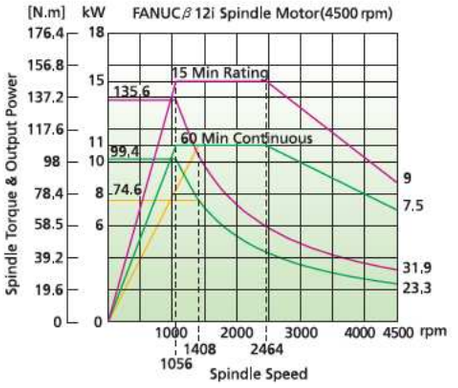
Standard Accessories

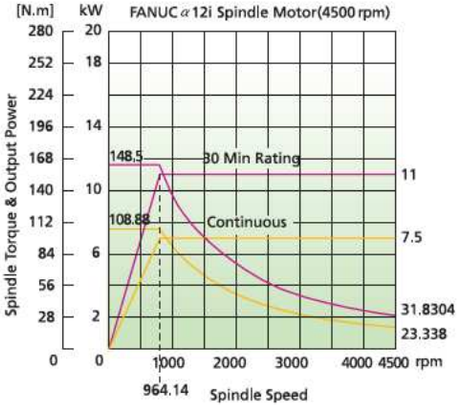
1. Fanuc 0i-Mate Controller
2. Spindle Speed: 4500 rpm
3. Spindle Motor: 11 / 15 kW
4. 8" Hydraulic Chuck
5. Hydraulic 10-Tool Turret
6. 5 Wedge Type Tool Clamps (for OD Tools)
7. 5 Boring Bar Holders
8. Hydraulic Tailstock with MT No.4 Quill
9. Coolant System
10. Leveling Bolts and Pads
11. Grease Lubrication System
12. Work Lamp
13. End of Program Light
14. Tool Kit
15. One Set of Soft Jaws
16. Operator's Manual
17. Maintenance Manual
18. Programming Manual
19. Parts List

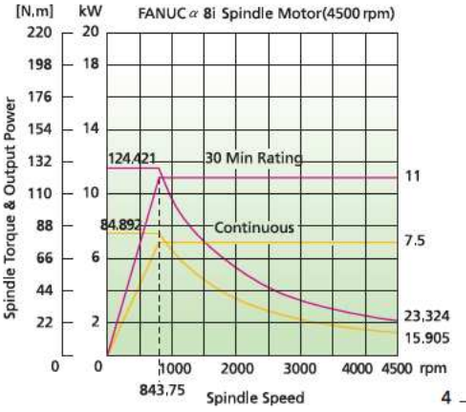
Optionals

1. Fanuc 0i-TD Controller
2. Siemens Controller
3. Mitsubishi Controller
4. 8" Hydraulic Chuck (KITAGAWA)
5. One Set of Hard Jaws
6. Taper Sleeve (MT No.1 & MT No.2) x O.D. 40
7. Hydraulic 8-Tool Turret
8. Boring Bar Bushings (Ø 8, Ø 10, Ø 12, Ø 16, Ø 20, Ø 32) x O.D. 40
9. Chain Type Chip Conveyor + Chip Bucket
10. Parts Catcher
11. Foot Pedal for Tailstock
12. Manual or Automatic Tool Setter
13. Turning Tool Holder (□20 x20)
14. Collet Chuck
15. Bar Feeder
16. Bar Feeder Interface
17. Oil Mist Collector
18. Transformer
19. Automatic Lubrication System

Spindle Torque Diagram



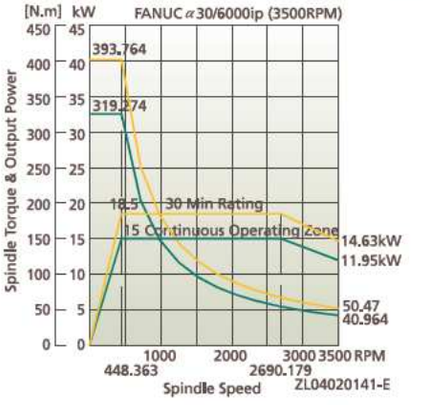




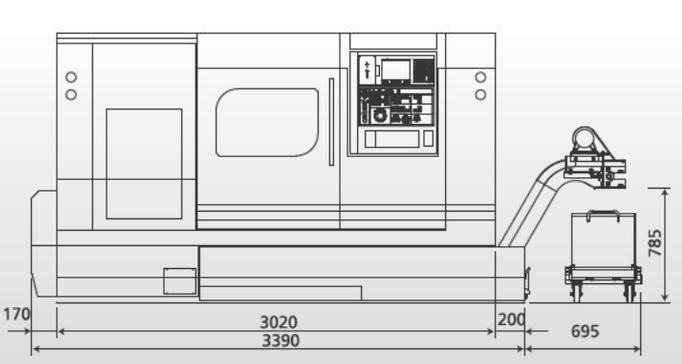
ML-580 (ML-350)

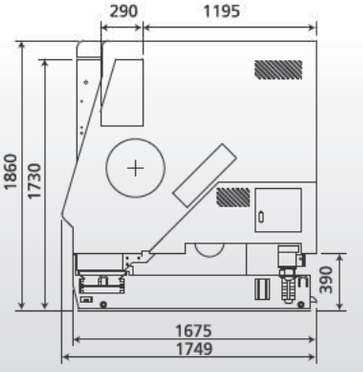
Linear Guide Way Lathe

Spindle Torque Diagram



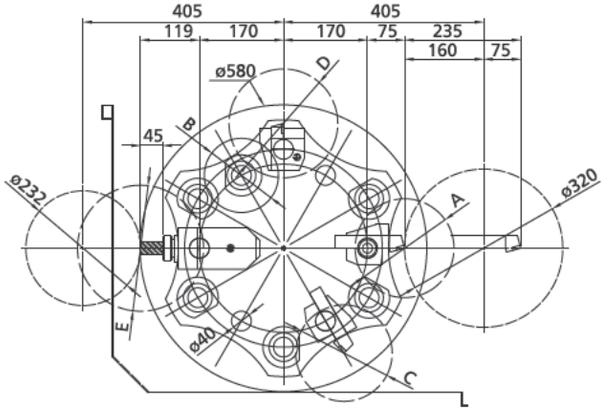
Dimensional Drawings





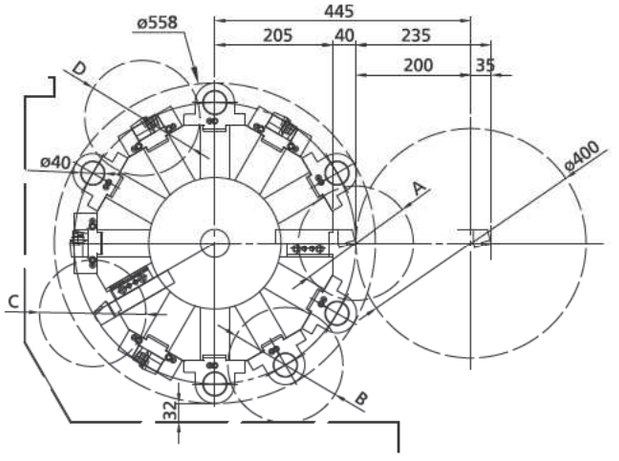
Tool Interference Diagram

ML-580C



Capacity	Dimension				
	A	B	C	D	E
12-Tool	200	150	195	220	255

ML-580



Capacity	Dimension			
	A	B	C	D
10-Tool	255	255	235	260
12-Tool	210	210	195	210

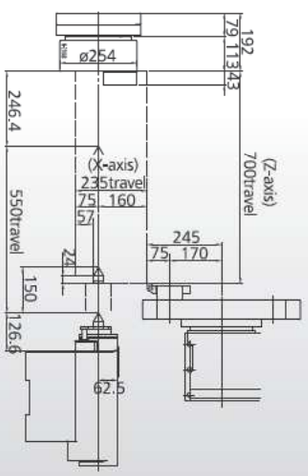
Machine Specifications

ITEM		ML-580 (ML-350)	
		Standard	C-axis
CAPACITY	Swing over bed	Ø 580	
	Swing over saddle	Ø 360	
	Distance between center	STD: 655 (A2-8); OPT: 647 (A2-8)	
	Max. machining dia.	Ø400	Ø320
	Max. machining length	STD: 657 (A2-8) OPT: 638 (A2-8)	
	Distance between noses		
	Slant angle of bed	45°	
TRAVEL RANGE	X-axis	235 (200+35)	235(160+75)
	Y-axis		
	Z-axis	700	
	C-axis	360° (0.001°)	
	W-axis		
SPINDLE	Spindle speeds (rpm)	STD: 50~3500 (A2-8) OPT: 50~2500 (A2-8)	
	Spindle nose	STD:A2-8	
	Spindle bore dia.	STD: Ø86 (A2-8); OPT: Ø105 (A2-8)	
	Front bearing dia.	STD: Ø120 (A2-8); OPT: 130 (A2-8)	
	Bar capacity	STD: 75; OPT: 91	
	Chuck diameter	STD: 10"; OPT: 12"	
TURRET	Type	Hydraulic OPT: Servo VDI	Live-tooling
	Stations	STD: 10 OPT: 8/12	STD:12
	Model	LS-240 LS-240SV	SMP-DT-20 -340-400
	Square tool shank	25	
	Boring bar shank diameter	ø40	
	Indexing time (0~180 °) (sec)	1.7/0.8	1.5
LIVE-TOOL	Spindle speeds (rpm)		50~4000
FEEDRATE	Rapid traverse (M/min)	X:30, Z:30	
TAILSTOCK	Quill diameter	Ø85	
	Tapered bore type	MT-4	
	Quill travel	150	
MOTORS	Main spindle (kW)	STD: α 30/6000ip 15/18.5	
	Sub-spindle (kW)		
	Live-tool (kW)		α 3 (3.7/5.5)
	X/Z-axis servo motor (kW)	X: α 12 3.0; Z: α 12 3.0	
	Hydraulic oil pump (kW)	2.25	
	Chip conveyor (kW)	0.2	
	Coolant pump (kW)	0.75	
ACCURACY	Positioning (mm)	±0.004	
	Repeatability (mm)	±0.003	
POWER	Requirement (KVA)	26	
MACHINE SIZE	Height	1860	
	Floor space (L x W)	4085 x 1749	
	Packing (w/conveyor)	4250 x 1820 x 2250	
	Net weight (w/conveyor) (kgs)	5700	
	Gross weight (w/conveyor) (kgs)	5950	

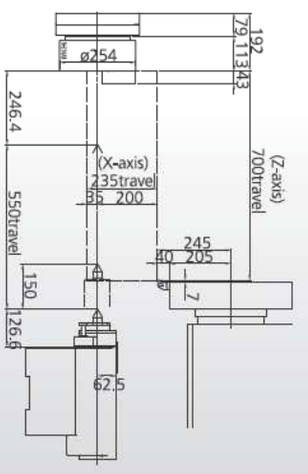
Note: Specifications are subject to change without further notice.

Work Envelope

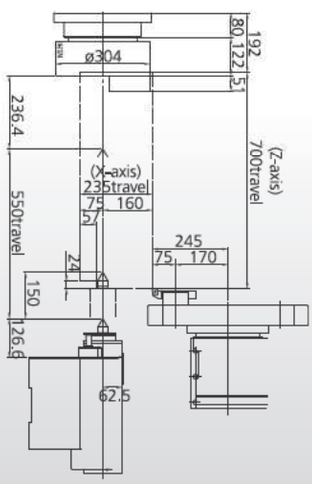
ML-580C 10" Chuck



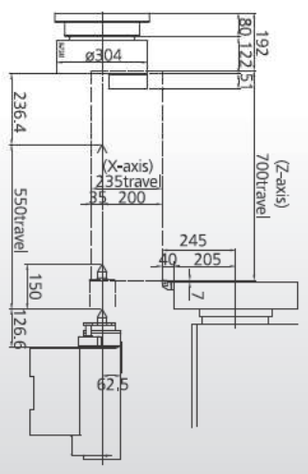
ML-580 10" Chuck



ML-580C 12" Chuck



ML-580 12" Chuck

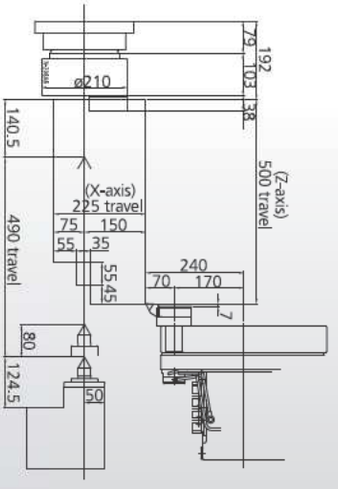


ML-600S (ML-360)

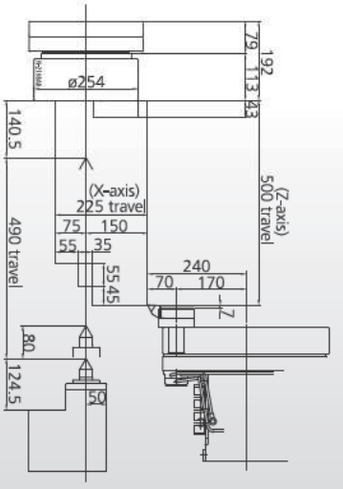
Linear Guide Way Lathe

Work Envelope

ML-600C 8" Chuck



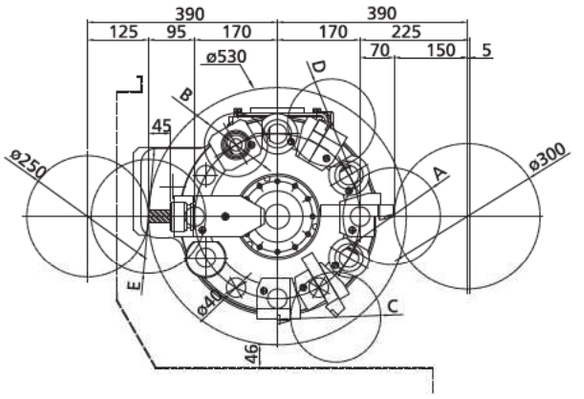
ML-600C 10" Chuck



YDPM Be a World Player!

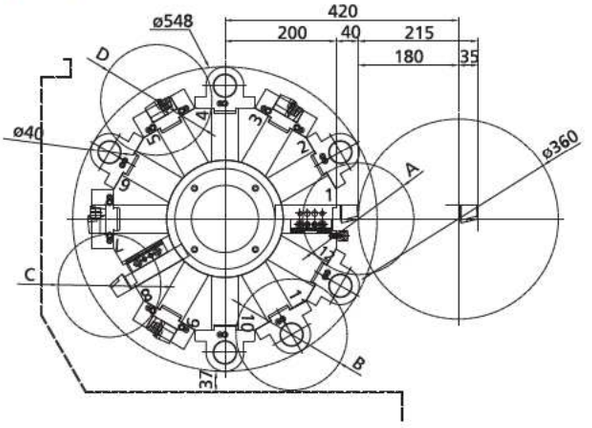
Tool Interference Diagram

ML-600C



Capacity	Dimension				
	A	B	C	D	E
8-Tool	290	215	187	215	300
12-Tool	200	130	185	180	235

ML-600S



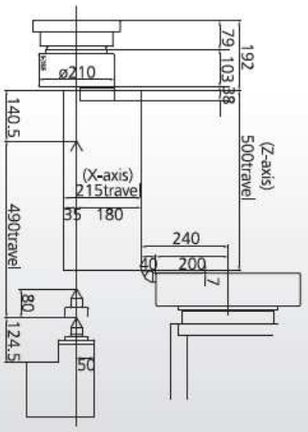
Capacity	Dimension			
	A	B	C	D
10-Tool	250	250	187	250
12-Tool	200	200	185	200

Machine Specifications

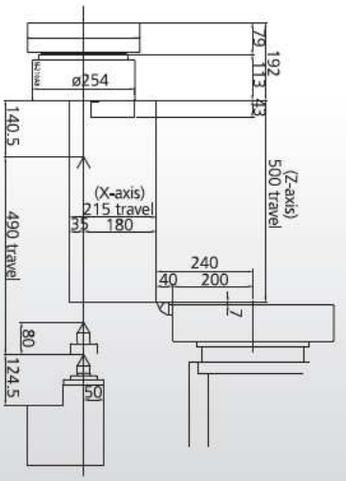
ITEM		ML-600S (ML-360)	
		Standard	C-axis
CAPACITY	Swing over bed	Ø 600	
	Swing over saddle	Ø 400	
	Distance between center	STD: 640 (A2-6) OPT: 595 (A2-8)	
	Max. machining dia.	Ø360	Ø300
	Max. machining length	STD: 470 (A2-6) OPT: 455 (A2-8)	
	Distance between noses		
	Slant angle of bed	30°	
TRAVEL RANGE	X-axis	215 (180+35)	225 (150+75)
	Y-axis		
	Z-axis	8" :500 / 10" :500	
	C-axis	360° (0.001°)	
	W-axis		
SPINDLE	Spindle speeds (rpm)	STD: 50~4900 (A2-6) OPT: 50~3500 (A2-8)	
	Spindle nose	STD:A2-6; OPT:A2-8	
	Spindle bore dia.	STD: Ø62 (A2-6); OPT: Ø86 (A2-8)	
	Front bearing dia.	STD: Ø100 (A2-6); OPT: Ø120 (A2-8)	
	Bar capacity	STD: 52; OPT: 75	
	Chuck diameter	STD: Ø 8"; OPT: Ø 10"	
TURRET	Type	STD: Hydraulic OPT: Servo	VDI / Live-tooling
	Stations	STD:12; OPT:10	STD:12; OPT:8
	Model	LS-200SV LS-200	TBMA200
	Square tool shank	25	
	Boring bar shank diameter	ø40	
	Indexing time (0~180 °) (sec)	2.1/0.87	1.5
LIVE-TOOL	Spindle speeds (rpm)		50~4000
FEEDRATE	Rapid traverse (M/min)	X:36, Z:36	
TAILSTOCK	Quill diameter	Ø85	
	Tapered bore type	MT-4	
	Quill travel	80	
MOTORS	Main spindle (kW)	STD: α 12/7000i 11/15 OPT: α 15/7000i 15/18.5	
	Sub-spindle (kW)		
	Live-tool (kW)		α 3 (3.7/5.5)
	X/Z-axis servo motor (kW)	X: α 12 3.0; Z: α 12 3.0	
	Hydraulic oil pump (kW)	1.5	
	Chip conveyor (kW)	0.2	
	Coolant pump (kW)	0.8	
ACCURACY	Positioning (mm)	±0.004	
	Repeatability (mm)	±0.003	
POWER	Requirement (KVA)	26	
MACHINE SIZE	Height	1845	
	Floor space (L x W)	2300 x 1950	
	Packing (w/conveyor)	3700 x 2270 x 2140	
	Net weight (w/conveyor) (kgs)	4870	
	Gross weight (w/conveyor) (kgs)	5120	

Note: Specifications are subject to change without further notice.

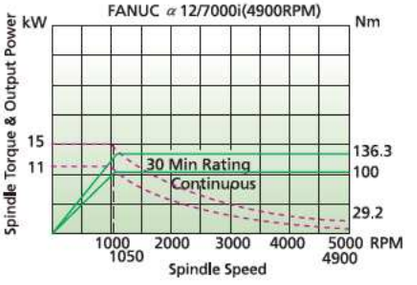
ML-600S 8" Chuck



ML-600S 10" Chuck



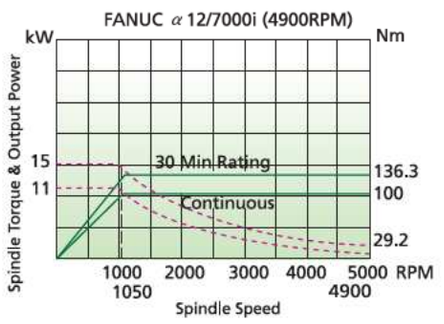
Spindle Torque Diagram



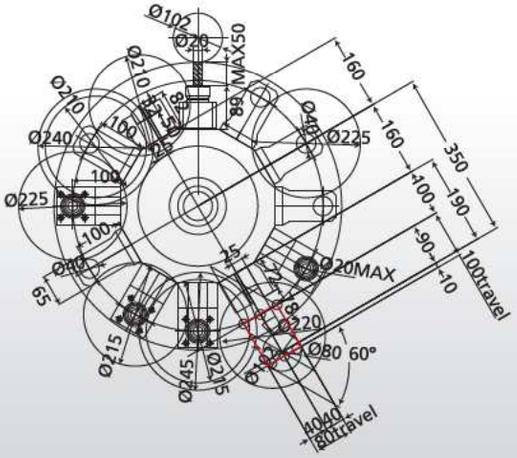
ML-600Y (ML-360Y)

Mill Turn Lathe

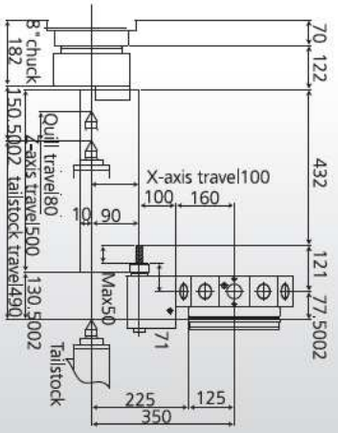
Spindle Torque Diagram



Tool Interference Diagram



Work Envelope



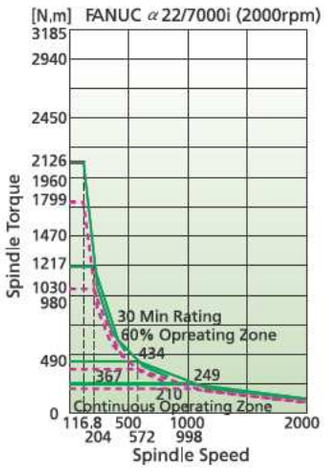
Machine Specifications

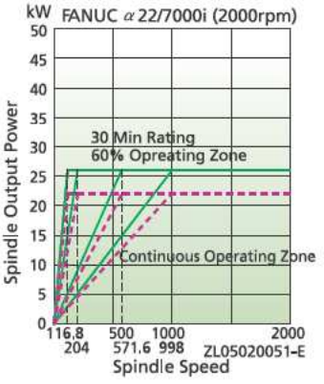
ITEM		ML-600Y (ML-360Y)
CAPACITY	Swing over bed	Ø600
	Swing over saddle	Ø420
	Distance between center	STD: 640 (A2-6); OPT: 595 (A2-8)
	Max. machining dia.	Ø130
	Max. machining length	STD: 470 (A2-6) OPT: 430 (A2-8)
	Distance between noses	
	Slant angle of bed	60° (30°+30°)
TRAVEL RANGE	X-axis	125 (65+60)
	Y-axis	±40
	Z-axis	8":500 / 10":465
	C-axis	360° (0.001°)
	W-axis	
SPINDLE	Spindle speeds (rpm)	STD: 50~4900 (A2-6) OPT: 50~3500 (A2-8)
	Spindle nose	STD: A2-6; OPT: A2-8
	Spindle bore dia.	STD: Ø62 (A2-6); OPT: Ø86 (A2-8)
	Front bearing dia.	STD: Ø100 (A2-6); OPT: Ø120 (A2-8)
	Bar capacity	STD: 52; OPT: 75
	Chuck diameter	STD: Ø 8"; OPT: Ø 10"
TURRET	Type	Live-tooling
	Stations	STD:12; OPT: 8
	Model	TBMR200 / 12DX (short)
	Square tool shank	25
	Boring bar shank diameter	ø40
	Indexing time (0~180°) (sec)	1.5
LIVE-TOOL	Spindle speeds (rpm)	50~4000
FEEDRATE	Rapid traverse (M/min)	X: 36, Z: 36, Y: 36; C: 200min^{-1}
TAILSTOCK	Quill diameter	Ø65
	Tapered bore type	MT-4
	Quill travel	80
MOTORS	Main spindle (kW)	STD: α 12/7000i 11/15 OPT: α 15/7000i 15/18.5
	Sub-spindle (kW)	
	Live-tool (kW)	α 3 (3.7/5.5)
	X/Z-axis servo motor (kW)	X: α 12 3.0; Z: α 12 3.0; Y: α 12 3.0
	Hydraulic oil pump (kW)	1.5
	Chip conveyor (kW)	0.2
	Coolant pump (kW)	0.8
ACCURACY	Positioning (mm)	±0.004
	Repeatability (mm)	±0.003
POWER	Requirement (KVA)	26
MACHINE SIZE	Height	2241
	Floor space (L x W)	2800 x 1997
	Packing (w/conveyor)	3870 x 2280 x 2550
	Net weight (w/conveyor) (kgs)	5790
	Gross weight (w/conveyor) (kgs)	6060

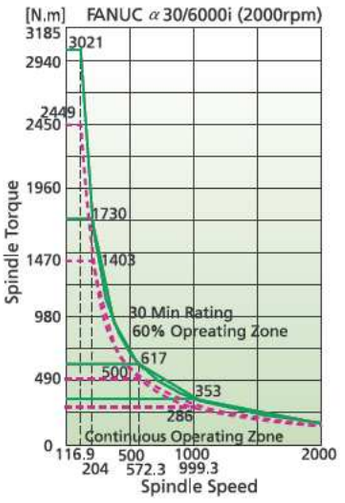
Note: Specifications are subject to change without further notice.

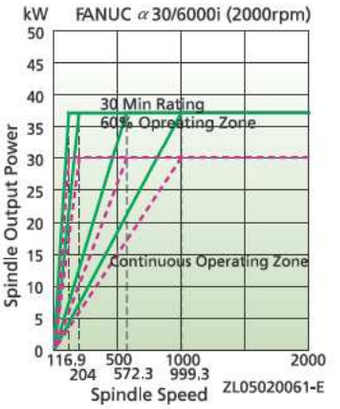
ML-720 (ML-60A)
Linear Guide Way Lathe

Spindle Torque Diagram



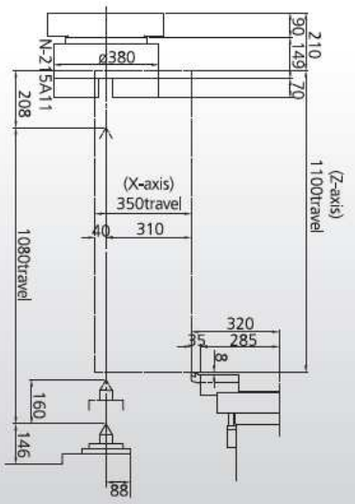




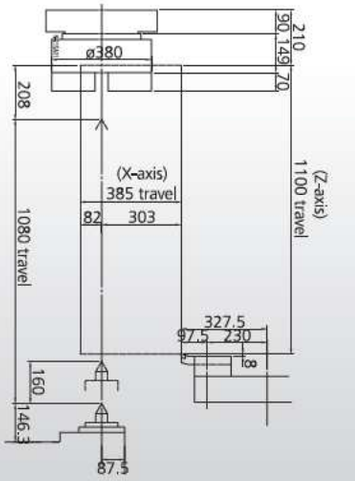


Work Envelope

ML-720 15" Chuck



ML-720C 15" Chuck



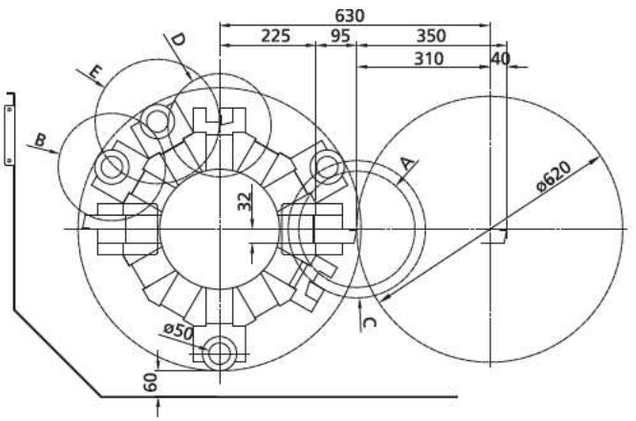
Machine Specifications

ITEM		ML-720 (ML-60A)	
		Standard	C-axis
CAPACITY	Swing over bed	Ø850	
	Swing over saddle	Ø500	
	Distance between center	STD: 1240 (A2-11)	
	Max. machining dia.	Ø620	Ø606
	Max. machining length	STD: 1000 (A2-11)	
	Distance between noses		
	Slant angle of bed	45°	
TRAVEL RANGE	X-axis	350 (310+40)	385 (303+82)
	Y-axis		
	Z-axis	1100	
	C-axis	360° (0.001°)	
	W-axis		
SPINDLE	Spindle speeds (rpm)	40~2000 (4 Step Gear)	
	Spindle nose	STD:A2-11	
	Spindle bore dia.	STD: Ø131 (A2-11)	
	Front bearing dia.	STD: Ø180 (A2-11)	
	Bar capacity	STD: 116	
	Chuck diameter	STD: Ø 15"; OPT: Ø18"	
TURRET	Type	Hydraulic VDI	Live-tooling
	Stations	STD: 8; OPT:12	STD:12
	Model	YIDA Turret	BSDT-320-460/12
	Square tool shank	32	
	Boring bar shank diameter	ø50	
	Indexing time (0~180 °) (sec)	2.5	2
LIVE-TOOL	Spindle speeds (rpm)		50~3000
FEEDRATE	Rapid traverse (M/min)	X:12, Z:20	
TAILSTOCK	Quill diameter	Ø125	
	Tapered bore type	MT-5	
	Quill travel	160	
MOTORS	Main spindle (kW)	STD: α 22/7000i 22/26 OPT: α 30/6000i 30/37	
	Sub-spindle(kW)		
	Live-tool (kW)		α 8 (7.5/11)
	X/Z-axis servo motor (kW)	X: α 22 4.0; Z: α 22 4.0	
	Hydraulic oil pump (kW)	2.25	
	Chip conveyor (kW)	0.2	
	Coolant pump (kW)	0.8	
ACCURACY	Positioning (mm)	±0.005	
	Repeatability (mm)	±0.004	
POWER	Requirement (KVA)	STD: 30 / OPT: 40	
MACHINE SIZE	Height	2530+10	
	Floor space (L x W)	5250 x 2230	
	Packing (w/conveyor)	5930 x 2290 x 2550	
	Net weight (w/conveyor) (kgs)	11080 kg; 11380 kg (with 18" chuck)	
	Gross weight (w/conveyor) (kgs)	12900 kg; 13200 kg (with 18" chuck)	

Note: Specifications are subject to change without further notice.

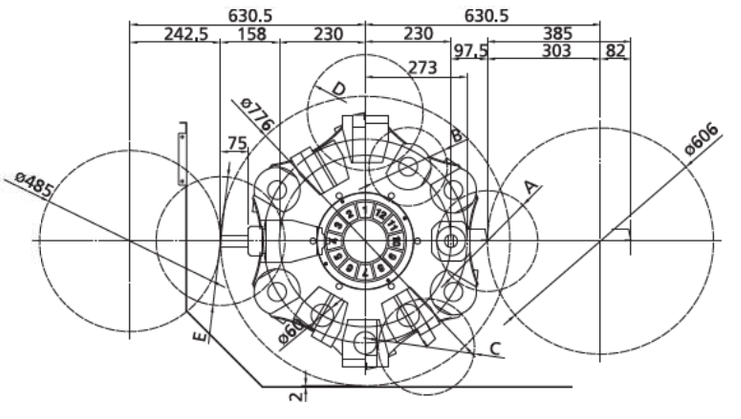
Tool Interference Diagram

ML-720



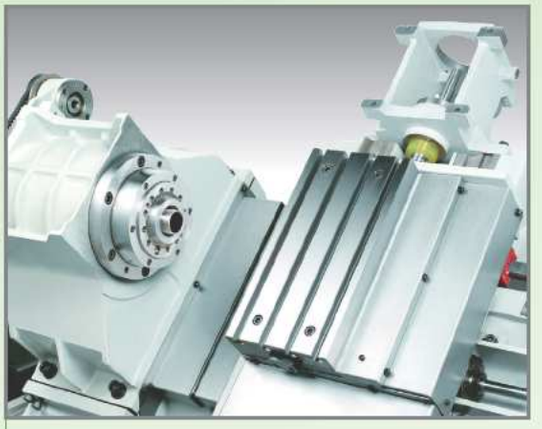
Capacity	Dimension				
	A	B	C	D	E
12-Tool	270	210	258	310	345

ML-720C



Capacity	Dimension				
	A	B	C	D	E
8-Tool	417	393	388	367	410
12-Tool	271	250	320	240	290

Standard

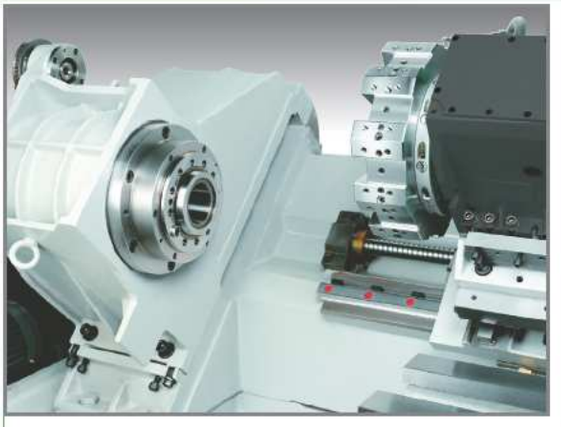


45° Slant Bed Design

The high quality fine grained cast iron base incorporates a 45° slant bed design and guarantees overall machine stability, vibration dampening and long term accuracy. (ML-600 30°, ML-600Y 60°)

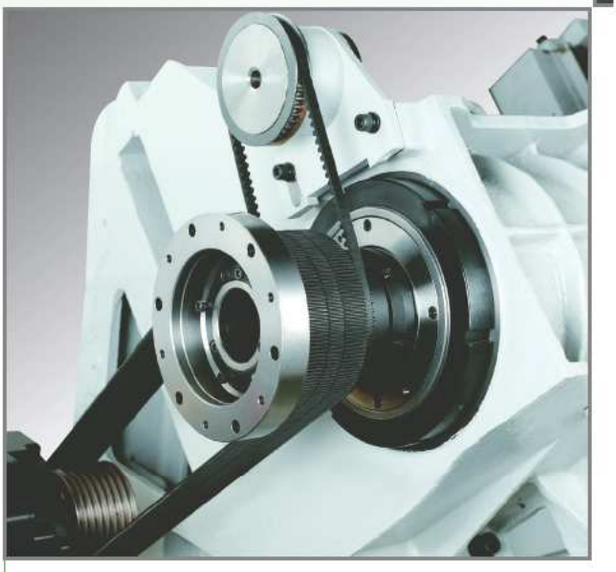
X and Z-Axis Linear Guideways

Class C2 ball screws provide high-speed rapid traverse rates, rugged machining yet precise positioning.



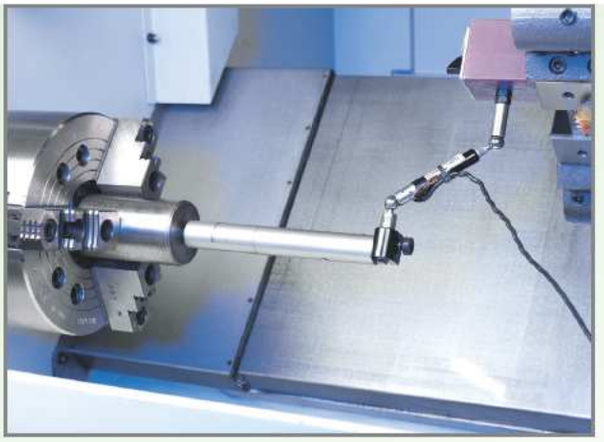
Optimum Chip Outlet

The large chip area, combined with the slant bed design and fully enclosed splashguards, optimizes coolant circulation, chip disposal and overall safety.



Headstock Triangular Design

Engineered triangular headstock with wide base lowers machine center of gravity and creates increased rigidity.

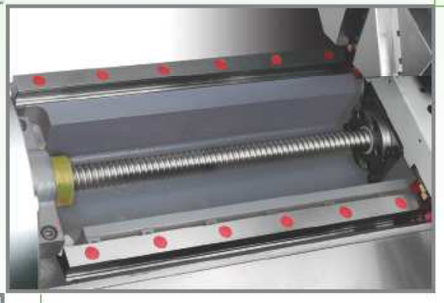


Hydraulic Unit

The direct-drive pump has high efficiency and low temperature rise.

Quality Assurance

Each machine has been inspected before shipping to ensure the operation performance. Ball bar circularity inspection and laser calibration system for dynamic positioning accuracy are imperative inspections.



High Quality Cast Iron Structure

The high quality fine grain massive cast iron structure guarantees the overall machine stability, vibration dampening and long-term accuracy.

Superior Precision and High Speed Ballscrews

Pre-pull dual nut assembly eradicates movement gaps, providing superior precision mating to the lead screw, the pre-pull assembly controls any rise in temperature during high speed machining.

High Capacity Cartridge

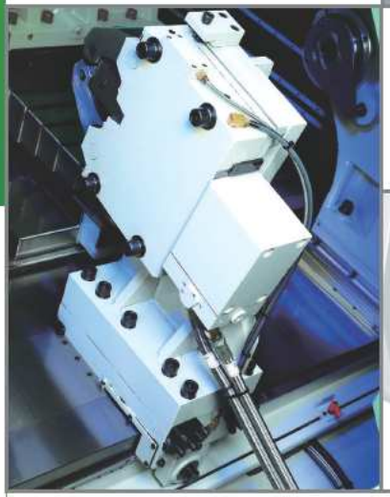
The N-N bearing spindle design and advanced cooling system not only improve cooling but also decrease thermal deformation while with standing high axial and twisting forces.

Optional

Quick Hydraulic / Servo Tool Turret / Live Tooling & C-axis

The parallel twin-cam Geneva indexing design, coupled with the hydraulic motor, base gear and coupling achieve reliable rigid fast tool changes, the result is a tool-to-tool change time of 0.3 seconds and repeatability of 0.003 mm. Coolant through the tool holder improves tool performance, accuracy and surface finish by delivering coolant to the proper point.

Servo-driven, live tooling function, powered tool for drilling milling, tapping and boring. It provides various tool capacities and fast tool positioning.



Tool Measurement

The tool is program controlled and automatically (or manually) touches the measuring probe to accomplish the setup process. It sufficiently reduces the setup time and automatically compensates the wear on tools.

Steady Rest

ML-720 (ML-60A)

Living Turret & C-axis Function

Robot

The FANUC M-10iA si available
- Max. reach: 1.42 m
- Payload capacity: 10 kg (including the weight of fiture)

Parts Catcher

Programmable Tailstock

The locking power of the programmable tailstock can reach up to 4288 kgf, and its thrust force can reach up to 667.5 kgf. The programmable tailstock can be efficiently positioned by programmed commands.

Tool Measurement

The tool is program controlled and automatically (or manually) touches the measuring probe to accomplish the setup process. It sufficiently reduces the setup time and automatically compensates the wear on tools.

ML-720 (ML-60A)

Headstock

Spindle speeds range from 40RPM to 2000RPM with the four speed gear box allowing for high precision heavy duty cutting.

Rigid spindle support is provided by one piece box-like construction. An oil cooling system is contained inside the box which is coupled with a heat conduction device mounted outside the box.

ML-580 / ML-600S / ML-600Y / ML-720)

Standard Accessories

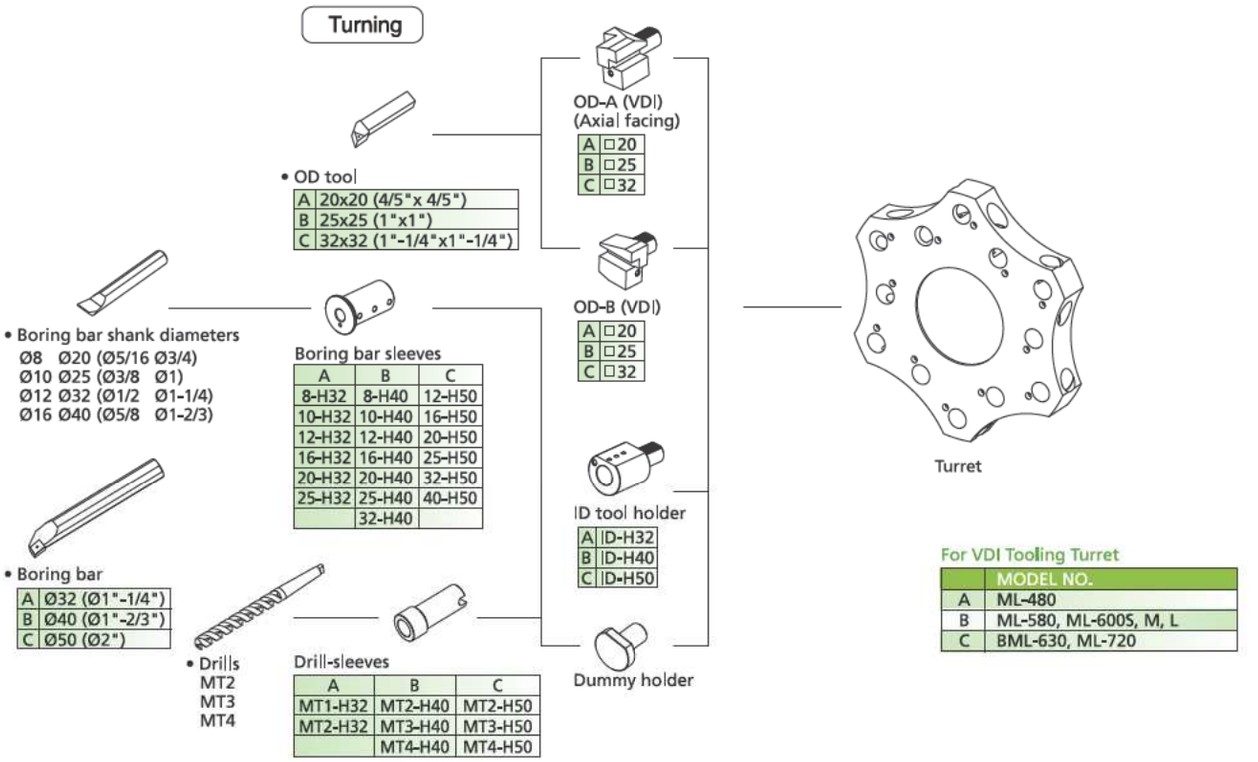
1. Fanuc 0i-TD Controller
2. Hydraulic Chuck: 8" (ML-600S, ML600Y), 10" (ML-580, ML-600S), 12" (ML-580), 15" (ML-720)
3. O.D. / I.D. Turning Tools
4. Boring Bar Holders
5. Boring Bar Bushings
6. Taper Sleeves
7. Hydraulic Turret
8. Manual Body Hydraulic Tailstock (ML-580, ML-720)
9. Tailstock Quill (N/A)
10. Coolant System
11. Coolant Tank
12. Chip Conveyor + Chip Bucket
13. Leveling Bolts and Pads
14. Auto Lubrication System
15. Work Lamp
16. Foot Pedal for Chuck
17. Tool Kit
18. Grease Gun
19. End of Program Light (3 Colors)
20. Operator's Manual
21. Maintenance Manual
22. Programming Manual
23. Parts List

Optionals

1. Fanuc 18i Controller; Siemens; Mitsubishi
2. Collet Chuck and Hydraulic Cylinder
3. Steady Rest (ML-720)
4. Bar Feeder
5. Bar Feeder Interface
6. 8/12-Tool Hydraulic Turret
7. V.D.I. Turret
8. Power Tooling (C-axis)
9. Centralized Lubrication System
10. Parts Catcher
11. Oil and Coolant Separator
12. Automatic Door
13. Oil Mist Collector
14. Foot Pedal for Tailstock
15. Manual Tool Setter
16. Automatic Tool Setter
17. Transformer
18. CE
19. Programmable Tailstock Body (ML-580, ML-720)

Vdi Tooling Turret

• Unit: mm • Commercial parts

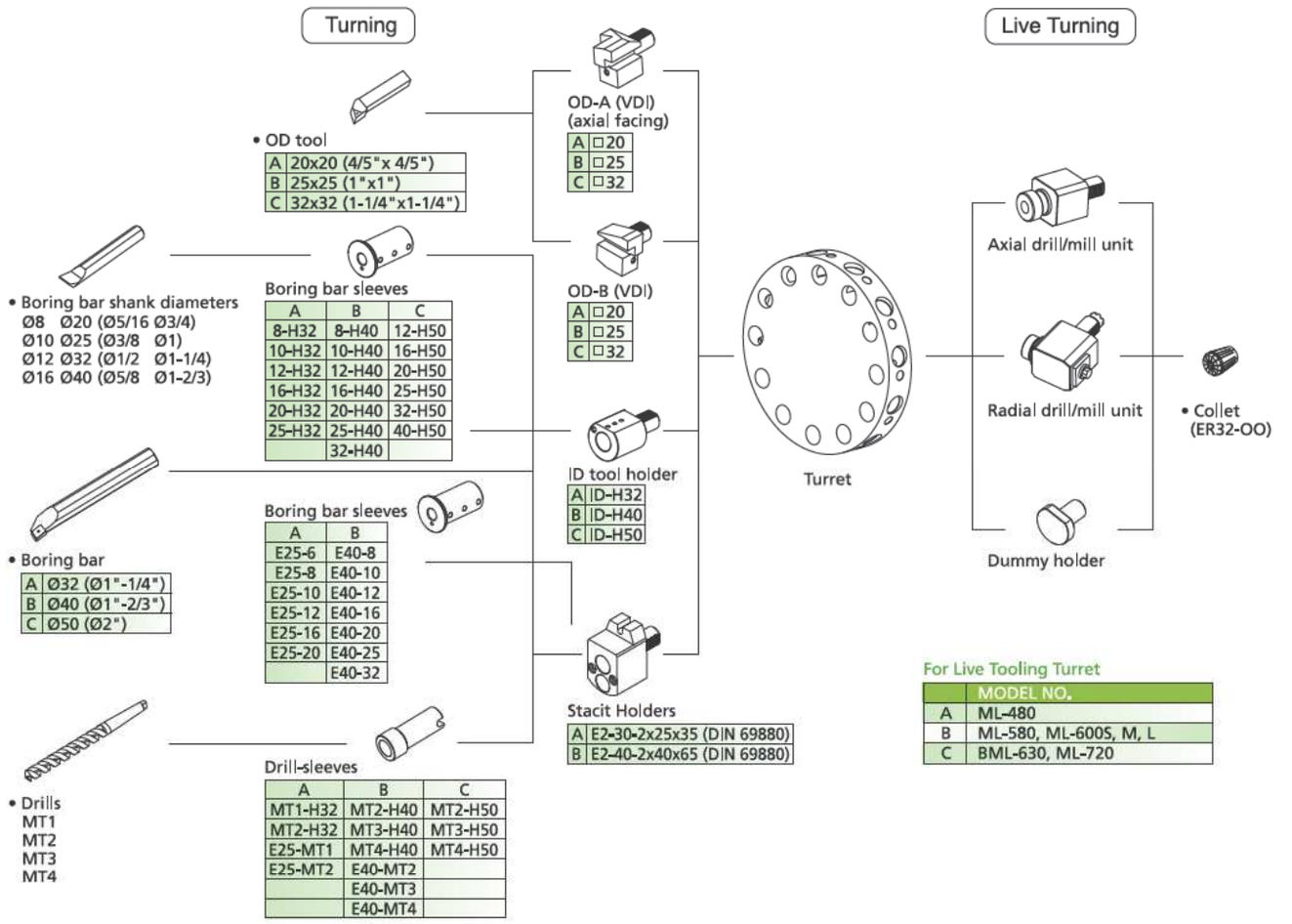


For VDI Tooling Turret

	MODEL NO.
A	ML-480
B	ML-580, ML-600S, M, L
C	BML-630, ML-720

Live Tooling Turret

• Unit: mm • Commercial parts

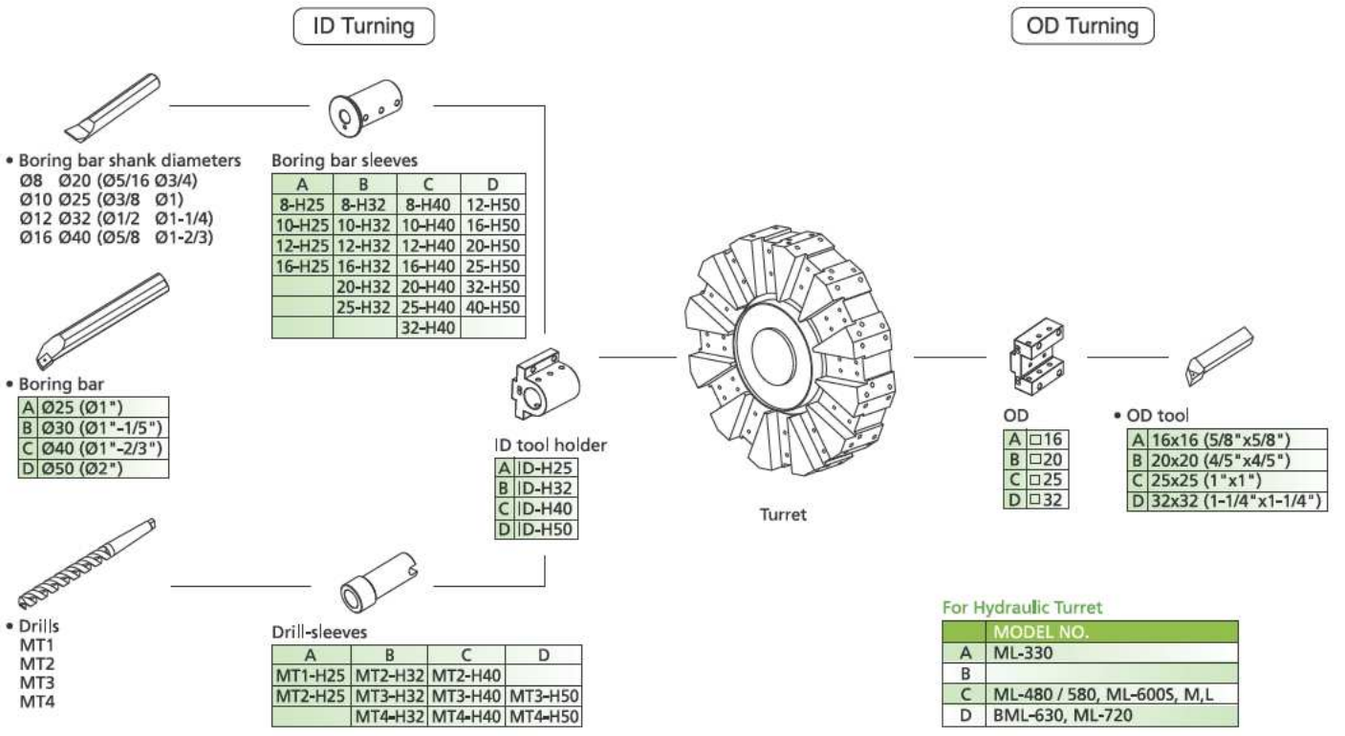


For Live Tooling Turret

	MODEL NO.
A	ML-480
B	ML-580, ML-600S, M, L
C	BML-630, ML-720

Hydraulic Tooling Turret

• Unit: mm • Commercial parts



For Hydraulic Turret

	MODEL NO.
A	ML-330
B	
C	ML-480 / 580, ML-600S, M,L
D	BML-630, ML-720

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