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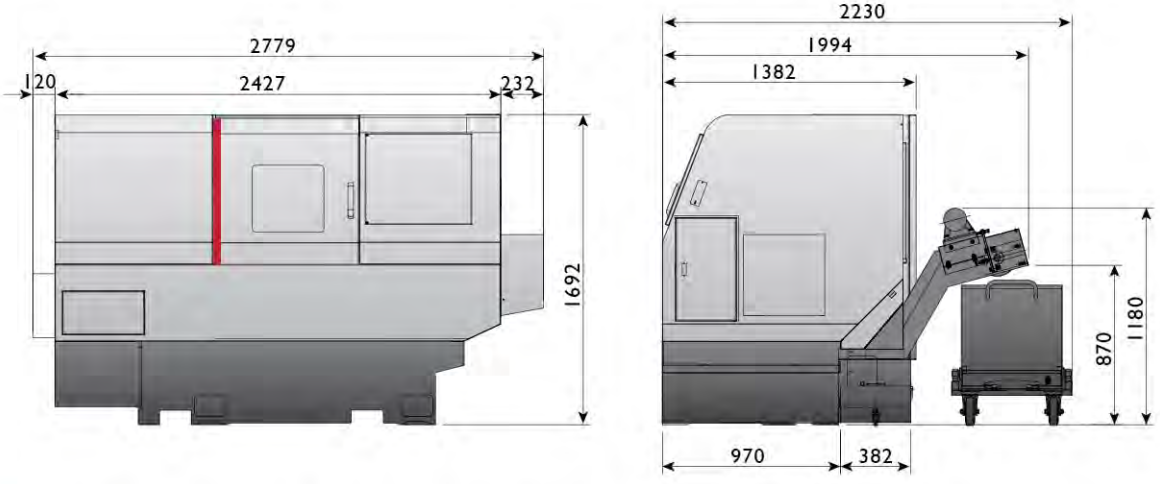
LATHES

ML-480

- FANUC 0i-mate-TD controller+8.4"color LCD+manual guide 0i
- FANUC spindle motor β 12/7000 (11/15 kW)
- FANUC servo motor β S12/3000 X/Z: 1.8 / 1.8 KW
- Draw bar diameter: 52 mm
- STRONG 8"3-jaw hydraulic hollow chuck
- Spindle speed 4,500 rpm
- LioShing 10-Tool Hydraulic Turret (LS-160A)
- Hydraulic tailstock with MT 4 Quill
- Coolant system
- Automatic lubrication system
- Wedge Type Tool Clamps (for OD Tools)
- Boring Bar Holders
- Boring bar bushings (Ø8, Ø10, Ø12, Ø16, Ø20, Ø25, Ø32)xO.D.40
- Work lamp + End of program indicator (3-color)
- Taper Sleeve (MT2 & MT3 & MT4)xO.D.40
- 1*Soft and 1*Hard Jaws
- leveling bolts and pads
- Tool Kit
- Fully enclosed splash guard
- YIDA manuals (operator & maintenance, parts list, electrical drawing)
- Fanuc manuals
- Chain type chip conveyor & chip cart
- 2-year FANUC controller warranty
- 1-year machine parts warranty (Ex-work Factory)
- Linear guide way
- Rigid 45 degree slant bed design
- Class C2 ball screws

ML-480	Standard	C axis
Working range		
Chuck diameter (inch)	Ø 8"	
Swing over bed / saddle (mm)	Ø 480 / Ø 370	
Distance between centers (mm)	615	
Max. machining dia. (mm)	Ø240	Ø250
Max. machining length (mm)	470	
Travels		
X/Z-axis (mm)	140 / 520	190 / 520
Spindle		
Spindle speeds (rpm)	50~4500	
Spindle nose	A2-6	
Spindle bore dia. / Draw bar dia. (mm)	Ø62/Ø52 (Ø76/Ø65)	
Front bearing inner dia. (mm)	Ø100	
Turret		
Stations	10 (12[servo])	12
Square tool shank	25x25	20x20
Boring bar shank diameter	Ø40	Ø32
Live-tooling BARUFFALDI		
Spindle speeds (rpm)		5000
Tool servo motor (kW)		α2 2.2/3.7
Feedrate		
X/Z-axis rapid traverse (M/min)	30 / 30	
Programmable tailstock		
Quill diameter / travel (mm)	Ø65 / 50	
Quill bore taper	MT-4	
Motors		
Main spindle (kW)	β12 11/15 (α8 7.5/11)	
X/Z-axis servo motor (kW)	β12 1.8 / β12 1.8	
Accuracy XZ ISO230-2 (97)		
Positioning / repeatability (μ)	±3 / ±2	
General		
Packing (w/conveyor) (cm)	293 x 227x 165	
Net weight (w/conveyor) (kgs)	2900	
Power (KVA)	380-415/220V 15KVA	



奕達精機股份有限公司 | 41465台中市烏日區溪南路一段357巷68弄41號
YIDA PRECISION MACHINERY CO., LTD. | Tel : 886-4-2335 8368 | Fax: 886-4-2335 6681
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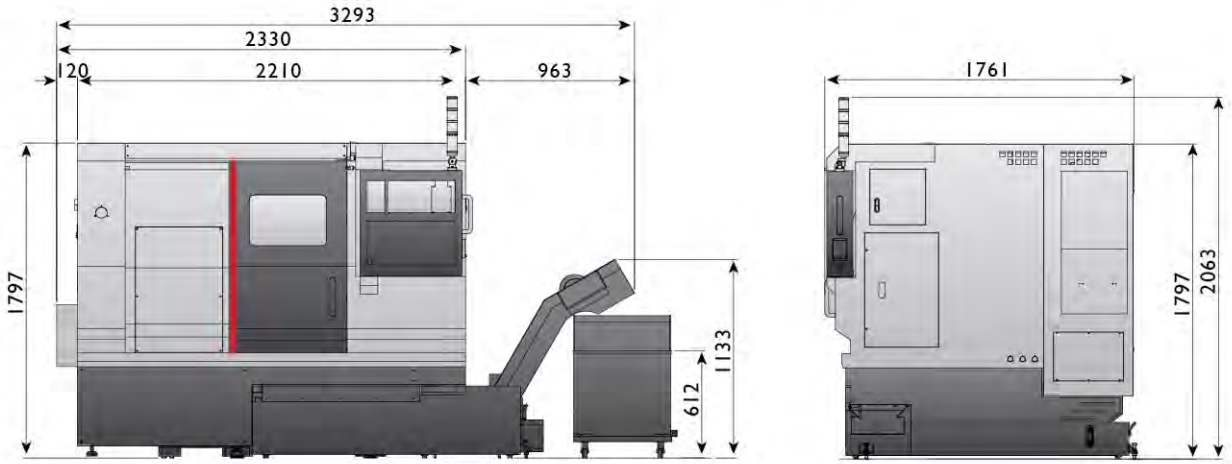
LATHES
ML-560S

- Fanuc 0i-mate-TD controller+8.4"color LCD+manual guide 0i
- FANUC spindle motor β 12/7000 (11/15kW)
- FANUC servo motor β S 12/3000 X/Z: 1.8/1.8kW
- Draw bar dia.: 52 mm
- STRONG 8"3-jaw hydraulic hollow chuck
- Spindle speed 4,500 rpm
- LioShing 10-Tool Hydraulic Turret (LS-160A)
- Coolant system
- Automatic lubrication system
- Programmable tailstock with MT4 quill
- Wedge Type Tool Clamps (for OD Tools)
- Boring Bar Holders
- Boring bar bushings (Ø8, Ø10, Ø12, Ø16, Ø20, Ø25, Ø32) x O.D.40
- Work lamp + End of program indicator (3-color)
- Taper Sleeve (MT2 & MT3 & MT4)xO.D.40
- 1*Soft and 1*Hard Jaws
- leveling bolts and pads
- Tool Kit
- Fully enclosed splash guard
- YIDA manuals (operator & maintenance, parts list, electrical drawing)
- Fanuc manuals
- Chain type chip conveyor & chip cart
- 2-year FANUC controller warranty
- 1-year machine parts warranty (Ex-work Factory)
- Linear guide way
- Rigid 30 degree slant bed design of one piece construction
- Class C2 ball screws

ML-560S	Standard	C axis
Working range		
Chuck diameter (inch)	Ø 6" (Ø 8")	
Swing over bed / saddle (mm)	Ø 560 / Ø 420	
Distance between centers (mm)	537	
Max. machining dia. (mm)	Ø320	Ø300
Max. machining length (mm)	320	
Travels		
X/Z-axis (mm)	190 / 360	190 / 360
Spindle		
Spindle speeds (rpm)	6000 (4500)	
Spindle nose	A2-5 (A2-6)	
Spindle bore dia. / Draw bar dia. (mm)	Ø55 / Ø45 (Ø62 / Ø52, Ø76 / Ø65)	
Front bearing inner dia. (mm)	Ø80 (Ø100)	
Turret		
Stations	8 (10)	12
Square tool shank	25x25	25x25
Boring bar shank diameter	Ø40	Ø40
Live-tooling BARUFFALDI		
Spindle speeds (rpm)		5000
Tool servo motor (kW)		α2 2.2/3.7
Feedrate		
X/Z-axis rapid traverse (M/min)	30 / 30	
Programmable tailstock		
Quill diameter / travel (mm)	Ø65 / 50	
Quill bore taper	MT-4	
Motors		
Main spindle (kW)	β8 7. 5 /11 (α8, β12)	
X/Z-axis servo motor (kW)	β8 1.2 / β8 1.2	
Accuracy XZ ISO230-2 (97)		
Positioning / repeatability (μ)	±3 / ±2	
General		
Packing (w/conveyor) (cm)	387x228x218	
Net weight (w/conveyor) (kgs)	3600	
Power (KVA)	380-415/220V 15KVA	



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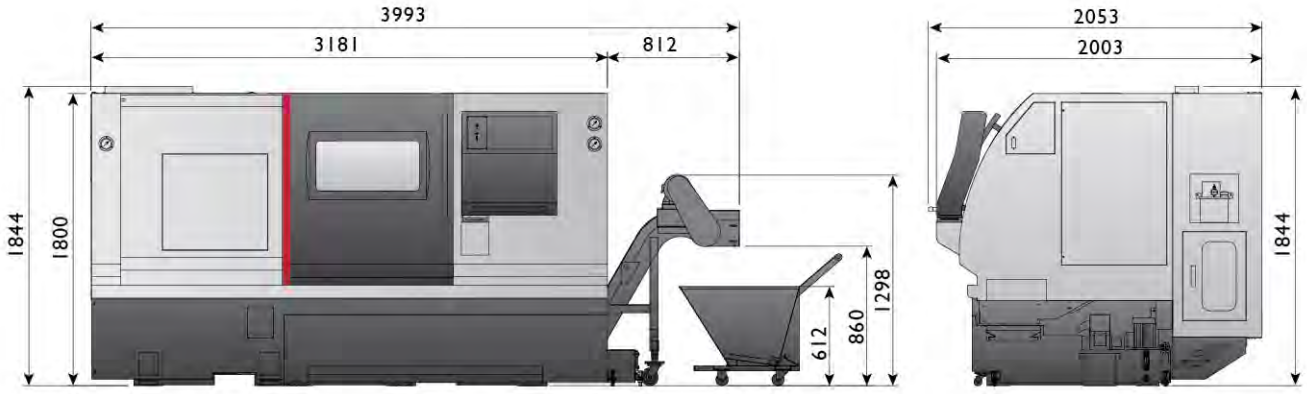
LATHES

ML-560M

- Fanuc 0i-mate-TD controller+8.4"color LCD+manual guide 0i
- FANUC spindle motor β 12/7000 (11/15kW)
- FANUC servo motor β S 12/3000 X/Z: 1.8/1.8kW
- Draw bar dia.: 52 mm
- STRONG 8"3-jaw hydraulic hollow chuck
- Spindle speed 4,500 rpm
- LioShing 10-Tool Hydraulic Turret (LS-160A)
- Coolant system
- Automatic lubrication system
- Programmable tailstock with MT4 quill
- Wedge Type Tool Clamps (for OD Tools)
- Boring Bar Holders
- Boring bar bushings (Ø8, Ø10, Ø12, Ø16, Ø20, Ø25, Ø32) x O.D.40
- Work lamp + End of program indicator (3-color)
- Taper Sleeve (MT2 & MT3 & MT4)xO.D.40
- 1*Soft and 1*Hard Jaws
- leveling bolts and pads
- Tool Kit
- Fully enclosed splash guard
- YIDA manuals (operator & maintenance, parts list, electrical drawing)
- Fanuc manuals
- Chain type chip conveyor & chip cart
- 2-year FANUC controller warranty
- 1-year machine parts warranty (Ex-work Factory)
- Linear guide way
- Rigid 30 degree slant bed design of one piece construction
- Class C2 ball screws

ML-560M	Standard	C axis
Working range		
Chuck diameter (inch)	Ø 6" (Ø 8")	
Swing over bed / saddle (mm)	Ø560 / Ø 420	
Distance between centers (mm)	787	
Max. machining dia. (mm)	Ø320	Ø300
Max. machining length (mm)	570	
Travels		
X/Z-axis (mm)	190 / 610	190 / 610
Spindle		
Spindle speeds (rpm)	6000 (4500)	
Spindle nose	A2-5 (A2-6)	
Spindle bore dia. / Draw bar dia. (mm)	Ø55 / Ø45 (Ø62 / Ø52, Ø76 / Ø65)	
Front bearing inner dia. (mm)	Ø80 (Ø100)	
Turret		
Stations	8 (10)	12
Square tool shank	25x25	20x20
Boring bar shank diameter	Ø40	
Live-tooling BARUFFALDI		
Spindle speeds (rpm)		5000
Tool servo motor (kW)		α2 2.2/3.7
Feedrate		
X/Z-axis rapid traverse (M/min)	30 / 30	
Programmable tailstock		
Quill diameter / travel (mm)	Ø65 / 50	
Quill bore taper	MT-4	
Motors		
Main spindle (kW)	β8 7.5/11 (β12, α8)	
X/Z-axis servo motor (kW)	β8 1.2 / β8 1.2	
Accuracy XZ ISO230-2 (97)		
Positioning / repeatability (μ)	±4 / ±3	
General		
Packing (w/conveyor) (cm)	404x228x218	
Net weight (w/conveyor) (kgs)	4170	
Power (KVA)	380-415/220V 15KVA	



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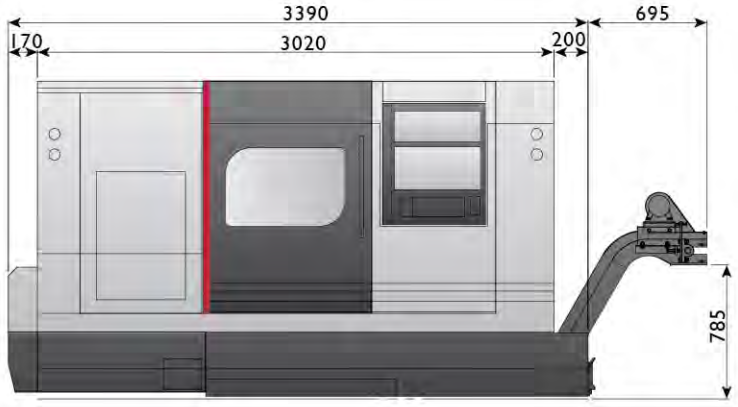
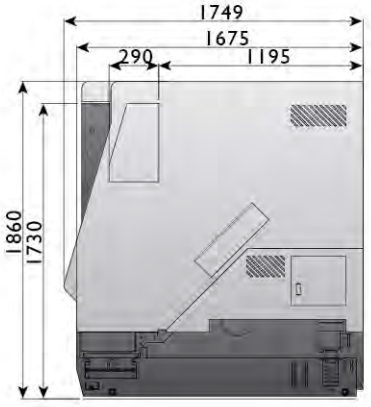
LATHES

ML-580

- FANUC 0i-TD controller + 8.4"color LCD + manual guide 0i
- FANUC spindle motor αP30 15/18.5 kW
- FANUC servo motor α12 X/Z: 3 / 3 KW
- Bar capacity: 75 mm
- LIOSHING 10 tools hydraulic turret
- STRONG 10", 3-jaw chuck A2-8, hydraulic hollow chuck
- Spindle speed 3,500 rpm
- hard jaw & soft jaw
- boring bar holder (40mm) I.D.
- Boring bar bushing (Ø8, Ø 10, Ø12, Ø16, Ø20, Ø 25, Ø 32) × O.D. 40
- Wedge Type Tool Clamps (for OD Tools)
- Taper sleeve (MT2 & MT3 & MT4) x O.D.40
- MT4 tailstock Quill
- Coolant system
- Automatic lubrication system
- manual body hydraulic tailstock
- Work lamp + End of program indicator (3-color)
- leveling bolts and pads
- Tool Kit
- Fully enclosed splash guard
- Chain type chip conveyor & chip cart
- YIDA manuals (operator & maintenance, parts list, electrical drawing)
- Fanuc manuals
- 2-year FANUC controller warranty
- 1-year machine parts warranty (Ex-work Factory)
- Linear guide way
- Rigid 45 degree slant bed design
- Class C2 ball screws

ML-580	Standard	C axis
Working range		
Chuck diameter (inch)	Ø 10" (Ø 12")	
Swing over bed / saddle (mm)	Ø 580 / Ø 360	
Distance between centers (mm)	655 (647)	
Max. machining dia. (mm)	Ø400	Ø320
Max. machining length (mm)	657 (638)	
Travels		
X/Z-axis (mm)	235 / 700	235 / 700
Spindle		
Spindle speeds (rpm)	50~3500 (50~2500)	
Spindle nose	A2-8	
Spindle bore dia. / Draw bar dia. (mm)	Ø86 / Ø75 (Ø105 / Ø91)	
Front bearing inner dia. (mm)	Ø120 (Ø130)	
Turret		
Stations	10 (12)	12
Square tool shank	25x25	25x25
Boring bar shank diameter	Ø40	Ø40
Live-tooling BARUFFALDI		
Spindle speeds (rpm)		50~4000
Tool servo motor (kW)		α3 3.7/5.5
Feedrate		
X/Z-axis rapid traverse (M/min)	30 / 30	
Programmable tailstock		
Quill diameter / travel (mm)	Ø85 / 150	
Quill bore taper	MT-4	
Motors		
Main spindle (kW)	α30 15 / 18.5	
X/Z-axis servo motor (kW)	α12 3.0 / α12 3.0	
Accuracy XZ ISO230-2 (97)		
Positioning / repeatability (μ)	±4 / ±3	
General		
Packing (w/conveyor) (cm)	425 x 182 x 225	
Net weight (w/conveyor) (kgs)	5700	
Power (KVA)	380-415/220V 26KVA	





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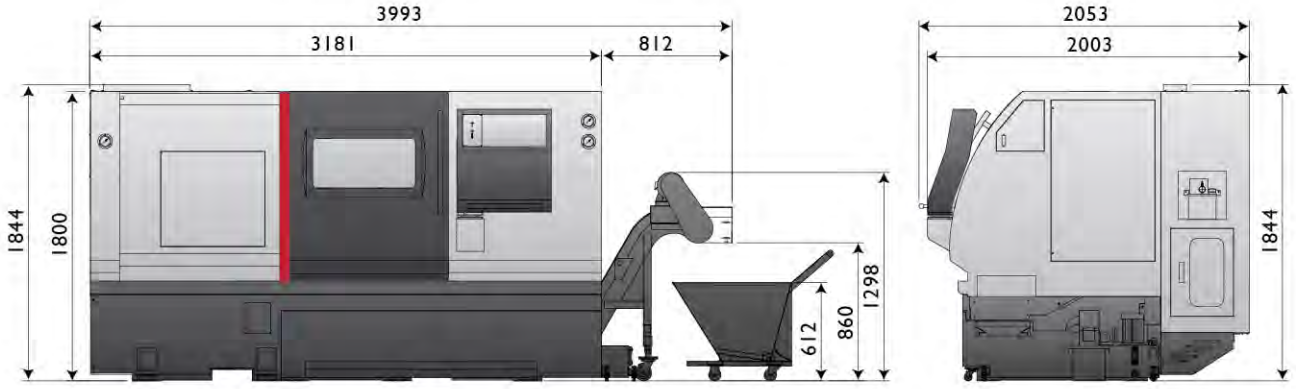
LATHES

ML-600S

- FANUC 0i-mate-TD controller+8.4"color LCD + manual guide 0i
- FANUC spindle motor α i12/7000 (11/15 kW)
- FANUC servo motor α F12/3000 X/Z: 3.0 / 3.0 kW
- STRONG 8", 3-jaw chuck A2-6, hydraulic hollow chuck
- Spindle speed 4,900 rpm
- Draw bar dia.:52mm
- LIOSHING 10-tool servo turret
- roller type guide way
- Wedge Type Tool Clamps (for OD Tools)
- boring bar holder (40mm) I.D.
- Hydraulic tailstock with MT4 Quill
- Coolant system
- Automatic lubrication system
- Work lamp + End of program indicator (3-color)
- 1*hard jaw & 1*soft jaw
- Boring bar bushing (Ø8, Ø 10, Ø12, Ø16, Ø20, Ø 25, Ø 32) x O.D. 40
- Taper sleeve (MT2 & MT3 & MT4) x O.D. 40
- leveling bolts and pads
- Tool Kit
- Fully enclosed splash guard
- YIDA manuals (operator & maintenance, parts list, electrical drawing)
- Fanuc manuals
- Chain type chip conveyor & chip cart
- 2-year FANUC controller warranty
- 1-year machine parts warranty (Ex-work Factory)
- Linear guide way
- Rigid 30 degree slant bed design of one piece construction
- Class C2 ball screws

ML-600S	Standard	C axis
Working range		
Chuck diameter (inch)	Ø 8" (Ø 10")	
Swing over bed / saddle (mm)	Ø 600 / Ø 400	
Distance between centers (mm)	640 (595)	
Max. machining dia. (mm)	Ø360	Ø300
Max. machining length (mm)	470 (430)	
Travels		
X/Z-axis (mm)	215 / 500	225 / 500
Spindle		
Spindle speeds (rpm)	50~4900 (50~3500)	
Spindle nose	A2-6 (A2-8)	
Spindle bore dia. / Draw bar dia. (mm)	Ø62/Ø52 (Ø86/Ø75)	
Front bearing inner dia. (mm)	Ø100(Ø120)	
Turret		
Stations	12 [servo]	12
Square tool shank	25x25	25x25
Boring bar shank diameter	Ø40	Ø40
Live-tooling BARUFFALDI		
Spindle speeds (rpm)		50~5000
Tool servo motor (kW)		3 3.7/5.5
Feedrate		
X/Z-axis rapid traverse (M/min)	36 / 36	
Programmable tailstock		
Quill diameter / travel (mm)	Ø65 / 80	
Quill bore taper	MT-4	
Motors		
Main spindle (kW)	α12 11/15 (α15 15/18.5)	
X/Z-axis servo motor (kW)	α12 3.0/α12 3.0	
Accuracy XZ ISO230-2 (97)		
Positioning / repeatability (μ)	±4 / ±3	
General		
Packing (w/conveyor) (cm)	370 x 227 x 214	
Net weight (w/conveyor) (kgs)	4870	
Power (KVA)	380-415/220V 30KVA[α22] 21KVA[α] 15KVA[β]	



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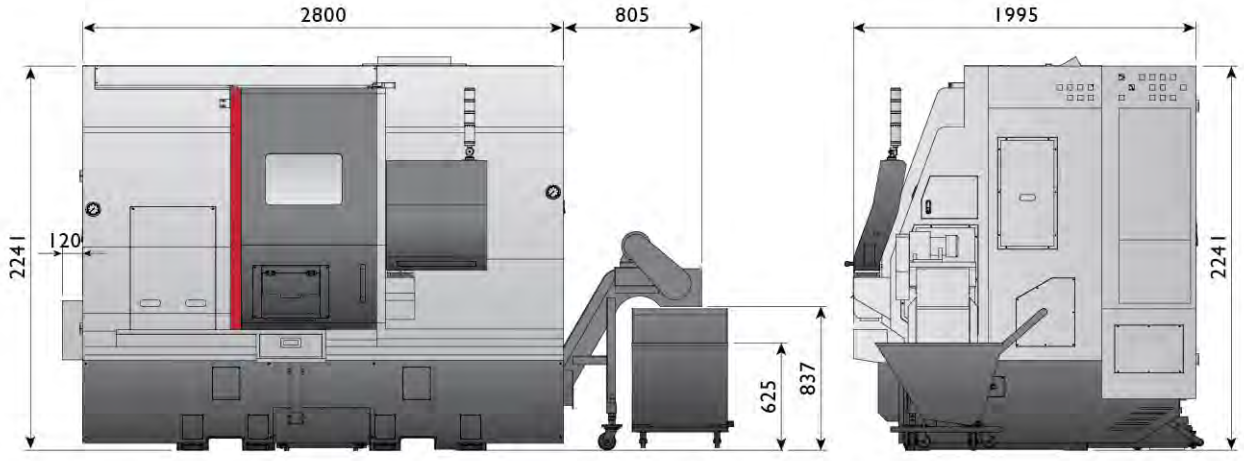
LATHES

ML-600Y

- FANUC 0i-TD controller+8.4"color LCD+manual guide 0i
- FANUC spindle motor α i12/7000 (11/15 kW)
- FANUC servo motor X/Z:α i12/3000 (3 / 3 KW)
- Draw bar diameter: 52 mm
- STRONG 8"3-jaw chuck A2-6, hydraulic hollow chuck
- BARUFFALDI 12-tool live tooling
- C-axis with brake disc and Heidenhain encoder
- Spindle speed 4,900 rpm
- roller type guide way
- Wedge Type Tool Clamps (for OD Tools)
- boring bar holder (40mm) I.D.
- Programmable tailstock with MT4 Quill
- Coolant system
- Automatic lubrication system
- Work lamp + End of program indicator (3-color)
- 1*hard jaw & 1*soft jaw
- Boring bar bushing (Ø8, Ø 10, Ø12, Ø16, Ø20, Ø 25, Ø 32) x O.D. 40
- Taper sleeve MT2, MT3, and MT4
- Leveling bolts and pads
- Tool Kit
- Fully enclosed splash guard
- YIDA manuals (operator & maintenance, parts list, electrical drawing)
- Fanuc manuals
- Chain type chip conveyor & chip cart
- 2-year FANUC controller warranty
- 1-year machine parts warranty (Ex-work Factory)
- Linear guide way
- Rigid 30 degree slant bed design of one piece construction
- Class C2 ball screws

ML-600Y

Working range	
Chuck diameter (inch)	Ø8" (Ø10")
Swing over bed / saddle (mm)	Ø600 / Ø420
Distance between centers (mm)	640 (595)
Max. machining dia. (mm)	Ø130
Max. machining length (mm)	470 (430)
Travels	
X/Z/Y-axis (mm)	125 / 500 / 80 (125 / 465 / 80)
C-axis (mm)	360° (0.001°)
Spindle	
Spindle speeds (rpm)	4900 (3500)
Spindle nose	A2-6 (A2-8)
Spindle bore dia. / Draw bar dia. (mm)	Ø62 / Ø52 (Ø86 / Ø75)
Front bearing inner dia. (mm)	Ø100 (Ø120)
Live-tooling BARUFFALDI	
Square tool shank	25x25
Boring bar shank diameter	Ø40
Tool servo motor (kW)	α3 3.7/5.5
Spindle speeds (rpm)	4000
Feedrate	
X/Z/Y-axis Rapid traverse (M/min)	36 / 36 / 36
Programmable tailstock	
Quill diameter / travel (mm)	Ø65 / 80
Quill bore taper	MT-4
Motors	
Main spindle (kW)	α12 11/15 (α15 15/18.5)
X/Z-axis servo motor (kW)	α12 3.0 / α12 3.0 / α12 3.0
Accuracy XZ ISO230-2 (97)	
Positioning / repeatability (μ)	X|Z:±4 Y:±2 / X|Z:±3 Y:±2
General	
Packing (w/conveyor) (cm)	387 x 228 x 255
Net weight (w/conveyor) (kgs)	5790
Power (KVA)	380-415/220V 26KVA



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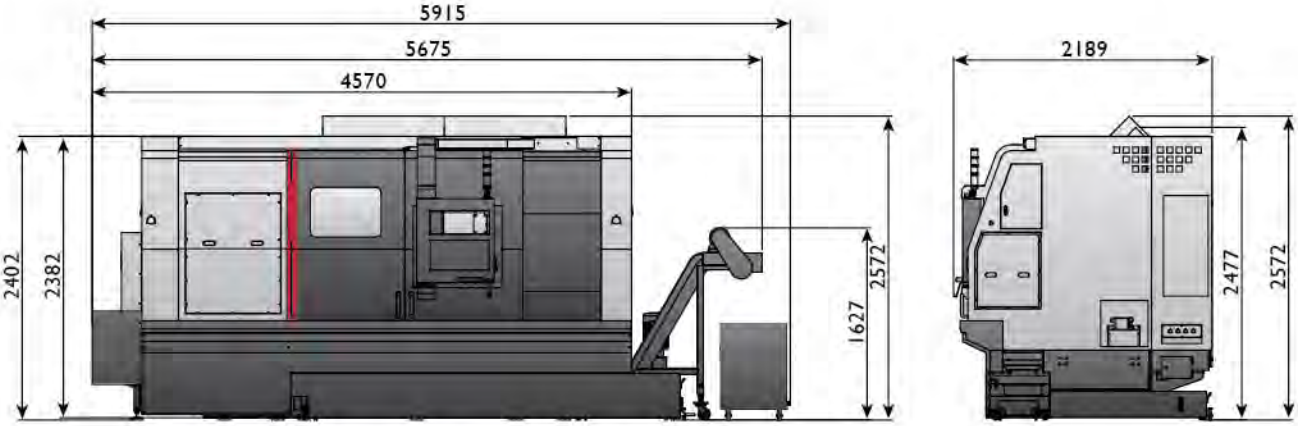
LATHES

ML-850

- FANUC 0i-TD controller + 8.4" color LCD + manual guide 0i
- FANUC spindle motor αi22/7000 (22/26kW)
- FANUC servo motor X/Z: αiF22/3000 (4 / 4 KW)
- R type head stock
- 12 tools hydraulic turret
- KITAGAWA 15"3-jaw chuck hydraulic hollow chuck
- Gear box (4 steps)
- Spindle speed 2,000 rpm
- 1*hard jaw & 1*soft jaw
- boring bar holder (50mm) I.D.
- Boring bar bushing (Ø 12, 16, 20, 25, 32,40)×O.D. 50
- Wedge Type Tool Clamps (for OD Tools)
- Taper sleeve (MT3 & MT4) x O.D. 50
- MT5 tailstock Quill
- Coolant system
- Automatic lubrication system
- Programmable tailstock
- Work lamp + End of program indicator (3-color)
- leveling bolts and pads
- Tool Kit
- Fully enclosed splash guarding
- YIDA manuals (operator & maintenance, parts list, electrical drawing)
- Fanuc manuals
- Chain type chip conveyor & chip cart
- 2-year FANUC controller warranty
- 1-year machine parts warranty (Ex-work Factory)
- Linear guide way
- Rigid 45 degree slant bed design
- Class C2 ball screws

ML-850	Standard	C axis
Working range		
Chuck diameter (inch)	Ø 15" (Ø 12")	
Swing over bed / saddle (mm)	Ø 850 / Ø 600	
Distance between centers (mm)	1520	
Max. machining dia. (mm)	Ø720 / Ø600	Ø620 / Ø600
Max. machining length (mm)	720x150 + 600x1270	620x185 + 600x1250
Travels		
X/Z-axis (mm)	380 / 1350	380 / 1322
Spindle		
Spindle speeds (rpm)	40~2000 (4-step gearbox)	
Spindle nose	A2-11 (A2-8)	
Spindle bore dia. / Draw bar dia. (mm)	Ø131 / Ø116 (Ø102 / Ø91)	
Front bearing inner dia. (mm)	Ø180 (Ø150)	
Turret		
Stations	8 (12)	12
Square tool shank	32x32	32x32
Boring bar shank diameter	Ø50	Ø50
Live-tooling BARUFFALDI		
Spindle speeds (rpm)		3200
Tool servo motor (kW)		α8 7.5/11
Feedrate		
X/Z-axis rapid traverse (M/min)	12 / 20	
Programmable tailstock		
Quill diameter / travel (mm)	Ø125 / 160	
Quill bore taper	MT-5	
Motors		
Main spindle (kW)	α22 22/26 (α30 30/37)	
X/Z-axis servo motor (kW)	α22 4.0/α22 4.0	
Accuracy XZ ISO230-2 (97)		
Positioning / repeatability (μ)	±5 / ±4	
General		
Packing (w/conveyor) (cm)	607 x 229 x 256	
Net weight (w/conveyor) (kgs)	11820	11530
Power (KVA)	380-415/220V 30KVA[α22]; 40KVA[α30]	



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