

MACHINE SPECIFICATION

Specification / Model		Unit	ML-430S	ML-430T	ML-430P	ML-430Y
CAPACITY	Swing over bed	mm(in.)	Ø430 (Ø16.9")	Ø430 (Ø16.9")	Ø430 (Ø16.9")	Ø430 (Ø16.9")
	Swing over saddle	mm(in.)	Ø160 (Ø6.3")	Ø160 (Ø6.3")	Ø160 (Ø6.3")	Ø160 (Ø6.3")
	Max. machining dia.	mm(in.)	Ø430 (Ø16.9")	Ø430 (Ø16.9")	Ø430 (Ø16.9")	Ø430 (Ø16.9")
	Max. machining length	()	240(9.4")	240(9.4")	240(9.4")	240(9.4")
	Slant angle of bed		0°	0°	0°	0°
TRAVEL RANGE	X-axis	mm(in.)	350 (13.8")	350 (13.8")	350 (13.8")	350 (13.8")
	Z-axis	mm(in.)	320 (12.6")	320 (12.6")	320 (12.6")	320 (12.6")
	Y-axis	mm(in.)	-	-	-	165 (6.5")
	C-axis	()	OPT.:360°(0.001")	OPT.:360°(0.001")	OPT.:360°(0.001")	OPT.:360°(0.001")
SPINDLE	Spindle speed	min ⁻¹ (rpm)	6000	6000	6000	6000
	Spindle nose		(A2-5)	(A2-5)	(A2-5)	(A2-5)
	Chuck diameter	mm(in.)	Ø169 (6")	Ø169 (6")	Ø169 (6")	Ø169 (6")
	Spindle bore dia.	mm(in.)	Ø56(Ø2.2)	Ø56(Ø2.2)	Ø56(Ø2.2)	Ø56(Ø2.2)
	Draw bar dia.	mm(in.)	Ø45(Ø1.8)	Ø45(Ø1.8)	Ø45(Ø1.8)	Ø45(Ø1.8)
	Spindle transmission	mm(in.)	V-type belt	V-type belt	V-type belt	V-type belt
TURRET	Type		Gang type	Turret	Power turret	YDPM power turret
	Station		6	8	12	5
	Square tool shank	mm(in.)	20X20(3/4"x3/4")	20X20(3/4"x3/4")	16x16(5/8"x5/8")	20X20(3/4"x3/4")
	Boring bar shank diameter	mm(in.)	Ø25(1.0")	Ø25(1.0")	Ø20(0.8")	Ø25(1.0")
LIVE-TOOL FEEDRATE	Tool specification	mm(in.)	-	-	VDI20 ER16	ER16
	Spindle speed	min ⁻¹ (rpm)	-	-	5000	4000
MOTORS	Rapid traverse	m/min	X:30 Z:30	X:30 Z:30	X:30 Z:30	X:30 Y:18 Z:30
	Main spindle (30min/cont)	KW(hp)	5.5/7.5(7.4/10)	5.5/7.5(7.4/10)	5.5/7.5(7.4/10)	5.5/7.5(7.4/10)
	Live tool (30min/cont)	KW(hp)	-	-	-	1.2
	X-axis servo motor	KW(hp)	1.2 (1.6)	1.2 (1.6)	1.2 (1.6)	1.2 (1.6)
	Y-axis servo motor	KW(hp)	-	-	-	1.2 (1.6)
	Z-axis servo motor	KW(hp)	1.2 (1.6)	1.2 (1.6)	1.2 (1.6)	1.2 (1.6)
	Y-axis power tool Motor	KW(hp)	-	-	-	0.75 (1)
	Hydraulic pump	KW(hp)	0.75 (1)	0.75 (1)	0.75 (1)	0.75 (1)
POWER	Coolant pump	KW(hp)	0.96(1.3)	0.96(1.3)	0.96(1.3)	0.96(1.3)
		KVA				
MACHINE SIZE	Length	mm(in.)	2100(82.7")	2100(82.7")	2100(82.7")	2100(82.7")
	Width	mm(in.)	2030 (80")	2030 (80")	2030 (80")	2030 (80")
	Height	mm(in.)	2120(83.5")	2120(83.5")	2120(83.5")	2120(83.5")
	New weight	kg(lb)				
CONTROLLER			Std.FANUC Oi - TF	Std.FANUC Oi - TF	Std.FANUC Oi - TF	Std.FANUC Oi - TF

Note: Specifications are subject to change without further notice.



Available controller:

1. FANUC Oi-TF
2. Mitsubishi M70/M80
3. SYNTEC
4. ITRI (PC base)
5. Delta (PC base)

MACHINE ACCESSORIES

Item	● Standard ○ Option				
	ML-430S	ML-430T	ML-430P	ML-430Y	
Spindle positioning	Manual positioning	●	●	--	--
	Hydraulic braking	○	○	--	--
	CS-axis+2-step hydraulic braking	○	○	●	●
Tooling system	●	●	●	●	
High pressure coolant pump	○	○	○	○	
Spindle chuck	Spindle	●	●	●	●
	Hydraulic rotary cylinder	●	●	●	●
Lubrication system	●	●	●	●	
Safety door	●	●	●	●	
Parts catcher	●	●	●	●	
Bar feeder interface	●	●	●	●	
Air blow for chuck	●	●	●	●	
Program end 3-color light	●	●	●	●	
LED work lamp	●	●	●	●	
Coolant system	●	●	●	●	
Tools box	●	●	●	●	
Oil mister	○	○	○	○	
Bar feeder	○	○	○	○	
Transfermer	○	○	○	○	
Chip conveyor	○	○	○	○	
Parts conveyor	○	○	○	○	
Collet chuck	○	○	○	○	
Customized loading/unloading automatic design	○	○	○	○	
Gantry robot and loading/unloading	○	○	○	○	
Various chucks option and fixture det	○	○	○	○	
Variable-frequency hydraulic system	○	○	○	○	
High pressure pump	○	○	○	○	
Sub-plate of fixture for tools	○	○	○	○	