

### 3-AXIS MACHINE SPECIFICATION

MODEL	UNIT	LV-850	LV-960	LV-1160	LV-1265	LV-1377	LV-1577	LV-1677	LV-1688	LV-1888	LV-2010	
<b>FANUC 0iMF PLUS Controller</b>												
<b>TABLE</b>												
Table Size	mm	900 x 550	1000 x 600	1200 x 600	1300 x 600	1400 x 780	1600 x 780	1700 x 780	1700 x 930	1900 x 950	2000 x 1000	
T-Slot (No. x Width x Pitch)	mm	5 x 18 x 100				5 x 18(22) x 125			7 x 22 x 150		7 x 22 x 150	
Max. Table Load	kg	500	600	1000	1200	1500	2000	2300	2500	3300	3600	
<b>TRAVEL</b>												
X Axis	mm	800	950	1100	1200	1350	1500	1600	1650	1800	2000	
Y Axis	mm	530	600		650	710 (750)			880		1000	
Z Axis	mm	560 (760)	600 (800)		610 (810)	720			820	850	840	
Spindle Nose to Table Surface	mm	120	140~740		130~740	150~870			150~970	250~1100	250~1090	
Spindle Center to Column Cover	mm	655				795			935		1035	
<b>SPINDLE</b>												
Spindle Taper		BBT (Taper Dual Contact)				BBT (Taper Dual Contact)			BBT (Taper Dual Contact)			
Spindle Speed & transmission	rpm	#40: 12000 direct drive (11/15 kw), LV-850 (7.5/11kw) #50: 5000 gear drive (15/18.5 kw)				#40: 12000 direct drive (11/15 kw) #50: 4000 gear drive (15/18.5 kw)			#40: 12000 direct drive (11/15 kw) #50: 4000 gear drive (15/18.5 kw)	#50: 4000 gear drive (15/18.5 kw)		
<b>FEED</b>												
Rapid Feed Rate - X/Y/Z axis	m/mim	36 / 36 / 36	#40: 36 / 36 / 36 #50: 24 / 24 / 24	#40: 32 / 32 / 30 #50: 24 / 24 / 24	30 / 30 / 24	24 / 24 / 20	#40: 24 / 24 / 20 #50: 20 / 20 / 20	20 / 20 / 20	18 / 18 / 18	#40: 18 / 18 / 18 #50: 15 / 15 / 15	15 / 15 / 15	
Cutting Feed Rate - X/Y/Z axis	m/mim	15 / 15 / 15				15 / 15 / 15			15 / 15 / 15			
<b>ATC</b>												
Tool Storage Capacity		#40: 24T #50: 24T				#40: 24T #50: 24T			#40: 24, 30/32/40/60 (Opt.) #50: 24, 30/40/60 (Opt.)	#50: 24, 30/40/60 (Opt.)		
Tool Shank Type		BBT40				BBT40			BBT40		BBT50	
Max. Tool Diameter x Length	mm	75 x 250				75 x 250			75 x 250		105 x 350	
Without Adjacent Tool (diameter)	mm	150				150			150		210	
Max. Tool Weight	kg	7				7			7		15	
<b>ACCURACY</b>												
ISO 230-2		A: 0.006 ; R: 0.005				A: 0.008 ; R: 0.006			A: 0.01 ; R: 0.006		A: 0.012 ; R: 0.007	
ISO 10791-2		A: 0.006 ; R: 0.005				A: 0.008 ; R: 0.006			A: 0.01 ; R: 0.006		A: 0.012 ; R: 0.007	
VDI 3441 (※1)		P: 0.008 / PS: 0.004				P: 0.009 / PS: 0.005			P: 0.012 / PS: 0.006		P: 0.014 / PS: 0.008	
<b>PERIPHERAL</b>												
Power Requirement	KVA	25	#40: 30, #50: 35			35			40	45		
Pneumatic Supply	Mpa,1/min	0.6				0.6			0.6			
Coolant Tank Capacity	L	380	390			480			540		600	
Foot Print Size ( W x D)	mm	3650 x 3335				4200 x 3715			4590 x 3975		4870 x 4225	
Machine Net Weight	kg	6200	9050	10800	11500	13950	15800	16280	16850	18600	19600	

註1：VDI 3441統計採5個標準差，具有99.5%品質保證的水準。

\* 本公司對產品樣式及規格不斷研發創新，如規格變動，恕不另行通知。

# STANDARD & OPTIONAL EQUIPMENT

— N.A    ○ Optional Equipment  
● Standard Equipment

MODEL	LV-960~1260		LV-1377~1677		LV-1688~2010	
	Gear	Direct-drive	Gear	Direct-drive	Gear	Direct-drive
Spindle oil cooler	●	●	●	●	●	●
Coolant jets around spindle	●	●	●	●	●	●
Automatic lubrication system (oil volumetric type)	●	●	●	●	●	●
Automatic lubrication system (grease volumetric type)	○	○	○	○	○	○
No counter-balance on Z-axis (brake motor)	○	○	○	○	○	○
Side flushing device	○	○	○	○	○	○
Oil mist cutting device (simple type)	○	○	○	○	○	○
Cutting air blast / Spindle unclamp air blast / Spindle positive air pressure	●	●	●	●	●	●
Air blast through spindle function	●	○	●	○	●	○
Coolant through spindle function	○	○	○	○	○	○
Spindle side flushing device	●	●	●	●	●	●
Big flow coolant pump	○	○	○	○	○	○
Coolant gun & air gun	●	●	●	●	●	●
Reinforced front door	●	●	●	●	●	●
Reinforced right / left side door	●	●	●	●	●	●
Fully enclosed splash guard	●	●	●	●	●	●
Rigid tapping	●	●	●	●	●	●
Automatic two-step power off function	●	●	●	●	●	●
Three-color warning lamp	●	●	●	●	●	●
Tool box	●	●	●	●	●	●
Fluorescent light	●	●	●	●	●	●
Ethernet transfer	●	●	●	●	●	●
Leveling blocks & bolts	●	●	●	●	●	●
Chip augers	●	●	●	●	●	●
Coolant through 3 axes ball screws	○	●	○	●	○	●
Side-mount link chain type chip conveyor	○	○	○	○	○	○
Heat exchanger for electric cabinet (heater type)	●	●	●	●	●	●
Heat exchanger for electric cabinet (refrigerant type)	○	○	○	○	○	○
Chip cart	○	○	○	○	○	○
Arm type tool magazine (incl. fast tool change)	●	●	●	●	●	●
Slideway guards (X / Y / Z)	●	●	●	●	●	●
Auto tool measurement device (RENISHAW or METROL)	○	○	○	○	○	○
Machine and control operation manual	●	●	●	●	●	●
DNC & RS-232 interface port	●	●	●	●	●	●
Heidenhain 3 axes linear scales (0.1 μm) with air blast device	○	○	○	○	○	○
Computer interface drive system with servo motor for 4th axis rotary table	○	○	○	○	○	○
4th axis rotary table with tailstock	○	○	○	○	○	○
Oil mist coolant device	○	○	○	○	○	○
Oil mist collector	○	○	○	○	○	○
Disk type oil fluid separator	●	●	●	●	●	●
Built-in type spindle (#40 related spindles)	—	○	—	○	—	○
Cutting fluid recycling system	○	○	○	○	○	○
Transformer (depends on customer's req. voltage)	○	○	○	○	○	○
Volt stabilizer	○	○	○	○	○	○