

YIH CHUAN MACHINERY INDUSTRY CO., LTD

HEADQUARTERS

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EXTRONCNC.com



High Performance Horizontal Machining Centers





L H SERIES

With 40 years experience of manufacturing machine tools, EXTRON has continuously developed and provided creative machine tools for global customers. We're always looking for solutions to improve our products and give you the better quality, reliable machines and service.

➤ High torque gear spindle can easily achieve machining requirements of heavy cutting. (LH-119G series)



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HIGH PERFORMANCE HORIZONTAL MACHINING CENTERS

The LH series featured with high torque spindle, servo motor, indexing rotary table and arm type tool magazine which provide optimal machining capabilities to fulfill your requests in the future.

- ➤ All axes use high speed linear guide ways to offer super rigidity and superior acceleration / deceleration performance.
- > Equipped with arm type 24T ATC system ensures reliability and efficiency.
 - > Coolant nozzles around spindle featured with high efficiency chips removal design ensures the outstanding machining accuracy.
 - > Compact exterior design saves floor space as well as lower shipping cost while travel.

Operation space at the side of machine





L H SERIES

- The Meehanite casting structure provides solid support and capable of performing heavy cutting.
- One-piece wide span structure of column offers structural stiffness and superior cutting rigidity while shifting headstock in high speed.
- By carrying the weight of tool magazine and tools on casting body can enforce reliability of tool change and extend usage of tool magazine.

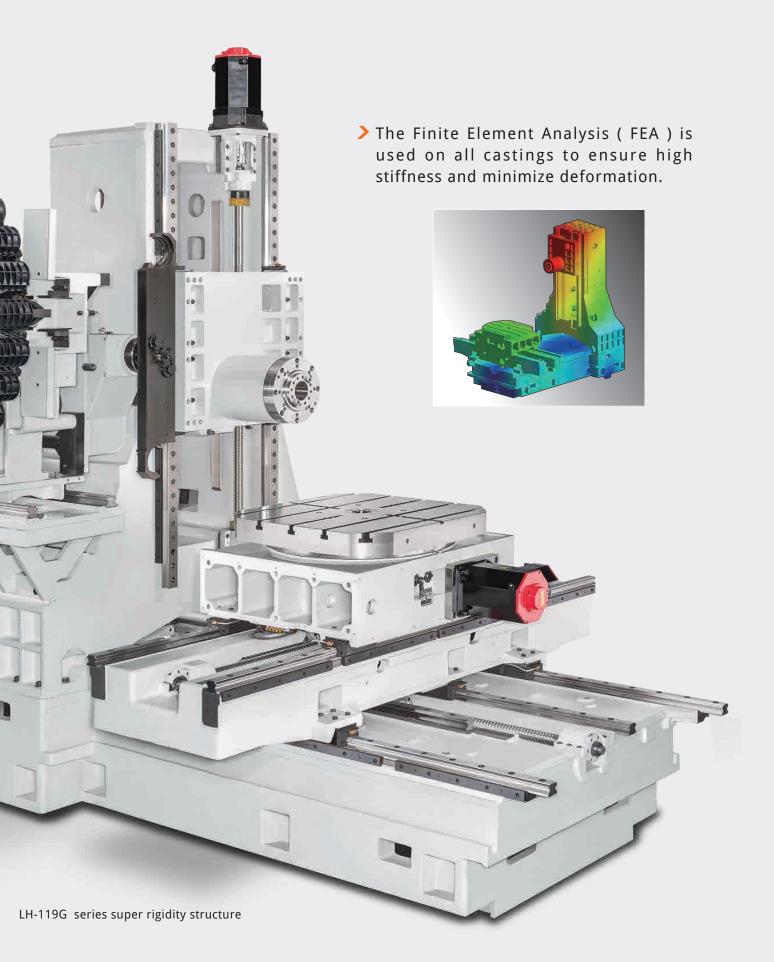


Structure of Bed

➤ Super rigidity 4 linear guide ways on bed fulfill machining needs of heavy cutting. Meantime, symmetrically central driven design, which ball screw locates at center of moving trail on Z-axis, provides high accuracy and heavy load axial system.



SUPER RIGID STRUCTURE



L H SERIES

Long Nose Spindle

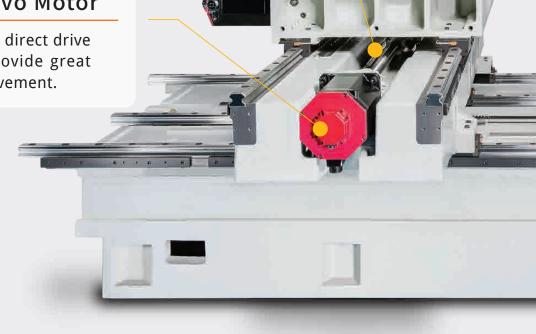
> Efficiently shortening the distance between tool and work-piece minimizes the overhanging of tool.

Ball Screw

➤ C3 class ball screw with double nuts ensures optimal accuracy and long-lasting. Besides, pre-tension design on all axes eliminates thermal deformation to ensure outstanding machining accuracy.

Direct drive Servo Motor

→ 3 axes are adopted direct drive servo motor to provide great thrust and fast movement.





Non-counter Weight Design

Non-counter weight balancing with brake system on Y-axis offers rapid movement and ensures machining accuracy.

Heavy Load Linear Blocks

→ 3 sets (6 pcs) of roller type linear guide way block design on Y-axis minimizes vibration and enhances rigidity of headstock to ensure peak machining performance and accuracy. (LH-119 series)

36/30/36 m/min

X / Y / Z rapid feed rate

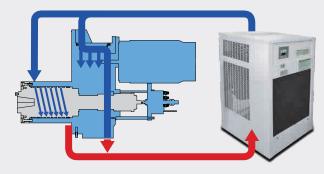
Enforced Cross Ribs Design

➤ The massive structure of bed, column, and table are all adopted with enforced cross ribs design that offers the best stability and precision for constantly machining.

LH-119G series super rigidity structure

Unique Spindle System

- > High torque gear spindle and high value belt drive spindle provides various machining needs.
- All series are standard with spindle oil chiller system to eliminate thermal deformation and ensure high accuracy and long lasting.
- High value belt drive spindle design offers various selections of motors to suit your machining needs.



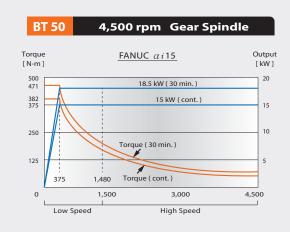
> 8,000 rpm high value spindle equipped FANUC αi12 spindle motor (BT40) provides powerful 15 kW output. Equipped FANUC αi15 spindle motor (BT50) provides powerful 18.5 kW output.



471 N-m

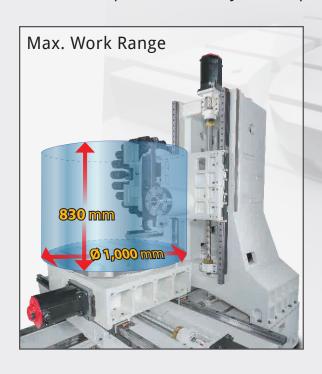
Max. Torque

- Equipped high torque gear spindle enhances heavy cutting capability. (LH-119G series)
- > 2-speeds super heavy-duty gear box.
- 4,500 rpm high torque spindle equipped FANUC αi15 spindle motor (BT50) provides powerful 18.5 kW motor delivers maximum torque output of 471 N-m at 375 rpm.



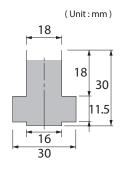
High Efficiency Rotary Table

- ▶ Depend on different machining requirements, 1° and 0.001° indexing / rotary table can fulfill various type of processing needs.
- > CNC 0.001° indexing / rotary table equipped with two-piece worm gear system provides high accuracy simultaneous machining capabilities, mostly use of spiral machining, and aerospace industry.



1,200 kg

Max. Load Capacity





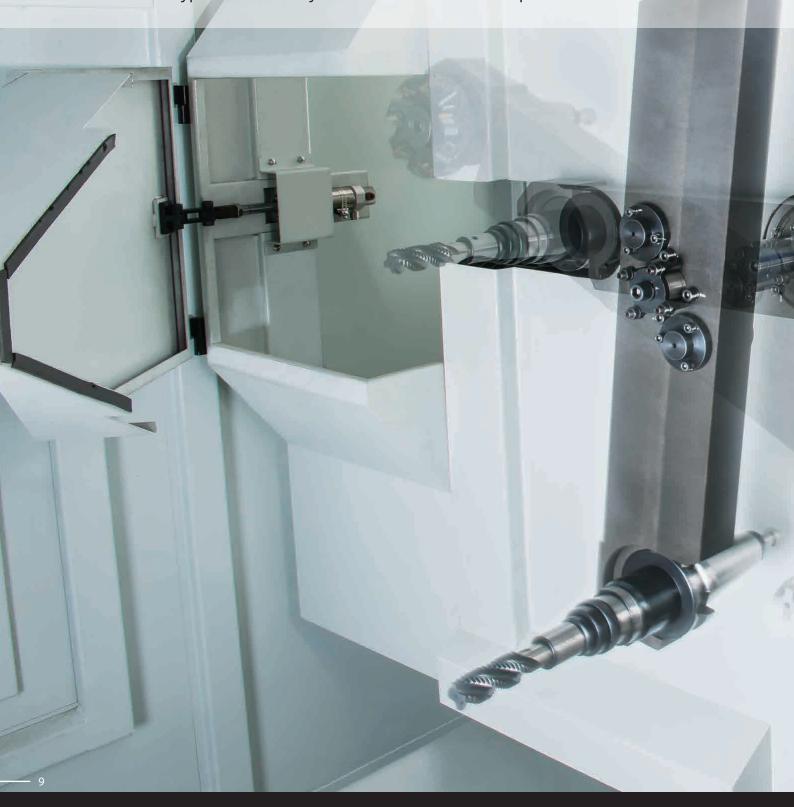




Model	LH-119	LH-75R LH-75I	LH-119R LH-119I LH-119GR LH-119GI
Table Size	1,260 x 700	500 x 500	700 x 700
Indexing table (B -axis)	740 x 700	500 x 500	700 x 700
1º Pos. Accuracy	10	10	10
1° Rep. Accuracy	2	2	2
0.001° Pos. Accuracy	-	15	15
0.001° Rep. Accuracy	-	6	4

ATC System

- All series are equipped with efficient arm type 24 tool ATC system which provides smooth tool changing without delay. (T-T: 1.9 second)
- > Two types of magazines, moveable and immoveable. Moveable magazine can efficiently enlarge working range and prevent hazards caused by spray of coolant.
- > Chain type 40 tool ATC system is also available for option.



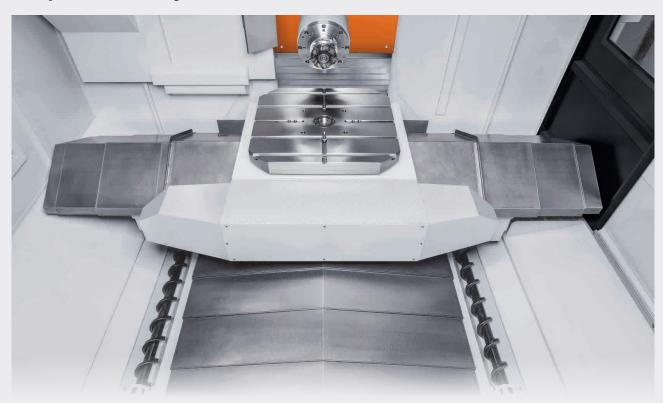


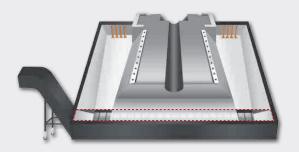
Coolant And Chips Conveyor

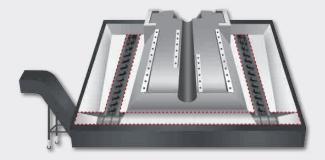
Coolant system

- ➤ All series features powerful coolant nozzles around spindle as standard provides high efficiency chips removals ability and decreases the rise of temperature to remain machining accuracy.
- > Coolant through spindle, which not only extends long lasting of tools, but also fulfills machining requests of deep hole drilling and milling, is available for option.

Chip removal system







■ Side exit type

High pressure chips flush coolant Caterpillar type chip conveyor

LH-75R

LH-75I

■ Side exit type

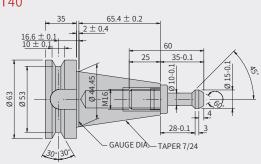
Screw type chip auger x 2 Caterpillar type chip conveyor

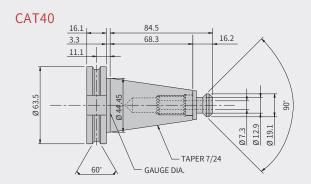
LH-119 LH-119R LH-119I LH-119GR LH-119GI

Dimensions

Tool shank and Pull Stud Dimensions



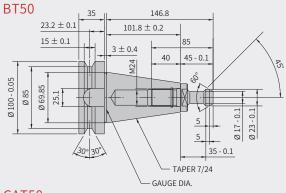


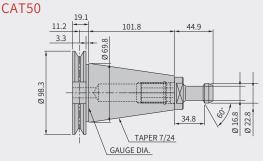


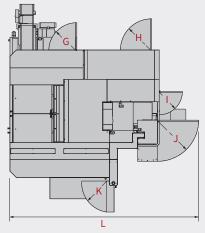
Machine Dimensions

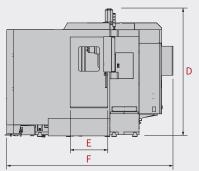
В Α











Model	Α	В	С	D	Е	F	G	Н	I	J	K	L
LH-75R	4,030	2,700	1,145	2,592	800	3,283	750	795	565	970	565	4,062
LH-75I	4,030	2,700	1,145	2,592	800	3,283	750	795	565	970	565	4,062
LH-119	4,979	3,500	1,130	2,896	850	3,775	660	735	545	970	689	4,443
LH-119R	4,979	3,500	1,130	2,896	850	3,775	660	735	545	970	689	4,443
LH-119I	4,979	3,500	1,130	2,896	850	3,775	660	735	545	970	689	4,443
LH-119GR	4,979	3,500	1,130	2,896	850	3,775	660	735	545	970	689	4,443
LH-119GI	4,979	3,500	1,130	2,896	850	3,775	660	735	545	970	689	4,443

Table size mm 500 x 500 Indexing table (B-axis) mm 500 x 500 T-slot (width x no. x space) mm 18 x 5 x 100 Table load capacity kg 500x Max. work-piece height mm 60000 Min. indexing angle degree 0.001 1 SPINDLE SPINDLE Spindle motor (cont. / 30 min) kW 11 / 15 15 / 18.5 Spindle speed rpm Belt drive 8,000 (Opt. 6,000 / 10,000) Belt drive 6,000 Spindle taper # 40 # 50 FEED RATE X/Y/Z axes rapid feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Max. tool diameter m 978 / 9150	SPECIFICATIONS		LH-75R	LH-75I	
Distance from spindle nose to table center mm 122 − 747 Distance from spindle nose to column mm 302 Distance from spindle nose to column mm 302 Distance from spindle center to table mm 0 − 660 Distance from spindle center to table mm 0 − 660 Distance from spindle center to table mm 0 − 660 Distance from floor surface to table surface mm 0 − 660 Distance from floor surface to table surface mm 0 − 660 Distance from floor surface to table surface mm 0 − 600 Distance from floor surface to table surface mm 0 − 600 Distance from spindle center to table mm 500 × 500 Indexing table (B-axis) mm 500 × 500 Table load capacity kg 500 Max. work-piece height mm 66 Min. indexing angle degree 0.001 1 1 SPINDLE Spindle motor (cont. / 30 min) kM 11 / 15 15 / 18.5 Spindle motor (cont. / 30 min) kM 11 / 15 15 / 18.5 Spindle taper FREED RATE	X-axis travel	mm	70	00	
Distance from spindle nose to table center mm 122 − 747 Distance from spindle nose to column mm 302 Distance from spindle center to table mm 0 − 660 Distance from spindle center to table surface mm 1,05 Distance from spindle center to table surface mm 1,05 Distance from spindle center to table surface mm 1,05 Distance from spindle center to table surface mm 1,05 Distance from spindle center to table surface mm 1,05 Distance from spindle center to table surface mm 1,05 Distance from spindle center to table surface mm 1,05 Distance from spindle center to table surface mm 500 × 500 Distance from spindle center to table surface mm 500 × 500 Distance from spindle center to table surface mm 500 × 500 Distance from spindle center to table surface mm 500 × 500 Distance from spindle center to table surface mm 500 × 500 Distance from spindle center to table surface mm 500 × 500 Distance from spindle center to table surface mm 600 × 500 × 500 Distance from spindle center to table surface mm 600 × 500 × 500 Distance from spindle center to table surface mm 600 × 5	Y-axis travel	mm	660		
Distance from spindle nose to column mm 0	Z-axis travel	mm	625		
Distance from spindle center to table mm 0 - 660 Distance from floor surface to table surface mm 1,055 Distance from floor surface to table surface mm 1,055 Distance from floor surface to table surface mm 5,00 x 500 Indexing table (B-axis) mm 500 x 500 Indexing table (B-axis) mm 18 x 5 x 100 Table load capacity kg 550 Max. work-piece height mm 660 Min. indexing angle degree 0,001 1 SPINDLE Spindle motor (cont. / 30 min) kw 11 / 15 15 / 18.5 Spindle speed pm Belt drive 8,000 (Opt. 6,000 / 10,000) Belt drive 6,000 Spindle taper # 40 # 50 FEED RATE X / Y / Z axes rapid feed rate m/min 36 / 30 / 36 Cutting feed rate m/min 36 / 30 / 36 Cutting feed rate m/min 300 350 TOOL MAGAZINE TOOL MAGAZINE ATC type	Distance from spindle nose to table center	mm	122 -	- 747	
Distance from floor surface to table surface mm 1,05	Distance from spindle nose to column	mm	30)2	
### Mark	Distance from spindle center to table	mm	0 ~	660	
Table size mm 500 x 500 Indexing table (B-axis) mm 500 x 500 T-slot (width x no. x space) mm 18 x 5 x 100 Table load capacity kg 500x Max. work-piece height mm 60000 Min. indexing angle degree 0.001 1 SPINDLE SPINDLE Spindle motor (cont. / 30 min) kW 11 / 15 15 / 18.5 Spindle speed rpm Belt drive 8,000 (Opt. 6,000 / 10,000) Belt drive 6,000 Spindle taper # 40 # 50 FEED RATE X/Y/Z axes rapid feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Max. tool diameter m 978 / 9150	Distance from floor surface to table surface	mm	1,0	056	
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T-slot (width x no. x space) mm 18 x 5 x 100 Table load capacity kg 500 Max. work-piece height mm 660 Min. indexing angle degree 0.001 1 SPINDLE SPINDLE Spindle motor (cont. / 30 min) kW 11 / 15 15 / 18.5 Spindle speed rpm Belt drive 8,000 (Opt. 6,000 / 10,000) Belt drive 6,000 Spindle taper # 40 # 50 FEED RATE X / Y / Z axes rapid feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 CUtting feed rate m/min. 36 / 30 / 36 CUT MAGAZINE ATC type Arr type ATC type Arr type Max. tool diameter m Ø 78 / Ø 150 Ø 105 / Ø 220 Max. tool length kg Text type Feet type type type type type type type t	Table size	mm	500 :	× 500	
Table load capacity kg 500 Max. work-piece height mm 660 Min. indexing angle degree 0.001 1 SPINDLE SPINDLE Spindle motor (cont. / 30 min) kW 11 / 15 15 / 18.5 Spindle speed rpm Belt drive 8,000 (Opt. 6,000 / 10,000) Belt drive 6,000 Spindle taper # 40 # 50 FEED RATE X / Y / Z axes rapid feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 40 / 36 Cutting feed rate m/min. 36 / 30 / 36 40 / 36 40 / 30 / 36 40 / 30 / 36 40 / 30 / 36 40 / 30 / 36 40 / 30 / 36 40 / 30 / 36 40 / 30 / 36 40 / 30 / 36 40 / 30 / 36 40 / 30 / 36 40 / 30 / 30 / 36 40 / 30 / 30 / 36 40 / 30 / 30 / 3	Indexing table (B-axis)	mm	500 3	× 500	
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SPINDLE Spindle motor (cont. / 30 min) kW 11 / 15 15 / 18.5 Spindle speed rpm Belt drive 8,000 (Opt. 6,000 / 10,000) Belt drive 6,000 Spindle speed # 40 # 50 FEED RATE X / Y / Z axes rapid feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 10 TOOL MAGAZINE ATC type Arm type Tool magazine capacity T 24T Max. tool diameter mm Ø 78 / Ø 150 Ø 105 / Ø 220 Max. tool weight kg 7 ACCURACY Positioning accuracy (JIS B 6338) mm ± 0.005 / Full travel Repeatability (JIS B 6338) mm ± 0.005 / Full travel GENERAL FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN Power requirement kVA 43 Coolant tank capacity liter 250 Machine weight kg 6,600	Max. work-piece height	mm	66	50	
Spindle motor (cont. / 30 min) kW 11 / 15 15 / 18.5 Spindle speed rpm Belt drive 8,000 (Opt. 6,000 / 10,000) Belt drive 6,000 Spindle taper # 40 # 50 FEED RATE X/Y/Z axes rapid feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. Armtye Armtye Max. tool diameter m 378 / 9150 Ø 105 / Ø 220 Max. tool length m 300 350 ACCURACY Positioning accuracy (JIS B 6338) mm ± 0.005 / Full travel Repeatability (JIS B 6338) mm ± 0.005 / Full travel Repeatability (JIS B 6338) mm ± 0.005 / Full travel Control system FANUC / MITSUBISHI /	Min. indexing angle	degree	0.001	1	
Spindle speed rpm Belt drive 8,000 (Opt. 6,000 / 10,000) Belt drive 6,000 Spindle taper # 40 # 50 FEED RATE X / Y / Z axes rapid feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. Arm type Arm type Tool magazine capacity T Arm type Max. tool diameter mm 978 / 9 150 Ø 105 / 9 220 Max. tool length mm 300 350 Max. tool weight kg T T ACCURACY Positioning accuracy (JIS B 6338) mm ± 0,005 / Full travel T Repeatability (JIS B 6338) mm ± 0,005 / Full travel T GENERAL Control system FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN Power requirement kVA Colspan="4">Accuracy (JIS B 6360) Accuracy (JIS B 6360)	SPINDLE				
Spindle taper #40 #50 FEED RATE X/Y/Z axes rapid feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 10 TOOL MAGAZINE ATC type Arm type Tool magazine capacity T 24T Max. tool diameter mm Ø 78 / Ø 150 Ø 105 / Ø 220 Max. tool length mm 300 350 Max. tool weight kg 7 ACCURACY Positioning accuracy (JIS B 6338) mm ± 0.005 / Full travel Repeatability (JIS B 6338) mm ± 0.003 GENERAL Control system FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN Power requirement kVA 43 Coolant tank capacity liter 250 Machine weight kg 6,600	Spindle motor (cont. / 30 min)	kW	11 / 15	15 / 18.5	
FEED RATE X / Y / Z axes rapid feed rate m/min. 36 / 30 / 36 Cutting feed rate m/min. 10 TOOL MAGAZINE ATC type ATC type Tool magazine capacity T Max. tool diameter Mm Max. tool length Max. tool length Max. tool weight Kg ACCURACY Positioning accuracy (JIS B 6338) Mm Mm Mm Mm Mm Mm Mm Mm Mm M	Spindle speed	rpm	Belt drive 8,000 (Opt. 6,000 / 10,000)	Belt drive 6,000	
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Cutting feed rate m/min. 10 FOOL MAGAZINE ATC type Arm type Tool magazine capacity T 24T Max. tool diameter mm Ø 78 / Ø 150 Ø 105 / Ø 220 Max. tool length mm 300 350 Max. tool weight kg 7 ACCURACY Positioning accuracy (JIS B 6338) mm ± 0.005 / Full travel Repeatability	FEED RATE				
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Max. tool lengthmm300350Max. tool weightkg7ACCURACYPositioning accuracy (JIS B 6338)mm± 0.005 / Full travelRepeatability (JIS B 6338)mm± 0.003GENERALControl systemFANUC / MITSUBISHI / SIEMENS / HEIDENHAINPower requirementkVA43Coolant tank capacityliter250Machine weightkg6,600	Tool magazine capacity	Т	24	4T	
Max. tool weight kg 7 ACCURACY Positioning accuracy (JIS B 6338) mm ± 0.005 / Full travel Repeatability (JIS B 6338) mm ± 0.003 GENERAL Control system FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN Power requirement kVA 43 Coolant tank capacity liter 250 Machine weight kg 6,600	Max. tool diameter	mm	Ø 78 / Ø 150	Ø 105 / Ø 220	
Positioning accuracy (JIS B 6338) mm ± 0.005 / Full travel Repeatability (JIS B 6338) mm ± 0.003 GENERAL Control system FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN Power requirement kVA 43 Coolant tank capacity liter 250 Machine weight kg 6,600	Max. tool length	mm	300	350	
Positioning accuracy (JIS B 6338) mm ± 0.005 / Full travel Repeatability (JIS B 6338) mm ± 0.003 GENERAL Control system FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN Power requirement kVA 43 Coolant tank capacity liter 250 Machine weight kg 6,600	Max. tool weight	kg		7	
Repeatability (JIS B 6338) mm ± 0.003 GENERAL Control system FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN Power requirement kVA 43 Coolant tank capacity liter 250 Machine weight kg 6,600	ACCURACY				
GENERAL Control system Power requirement kvA Coolant tank capacity Machine weight KyA KyA FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN 43 43 6,600	Positioning accuracy (JIS B 6338)	mm	± 0.005/	Full travel	
Control system FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN Power requirement kVA 43 Coolant tank capacity liter 250 Machine weight kg 6,600	Repeatability (JIS B 6338)	mm	± 0.003		
Power requirement kVA 43 Coolant tank capacity liter 250 Machine weight kg 6,600	GENERAL				
Coolant tank capacity liter 250 Machine weight kg 6,600	Control system		FANUC / MITSUBISHI / S	SIEMENS / HEIDENHAIN	
Machine weight kg 6,600	Power requirement	kVA	4	3	
·	Coolant tank capacity	liter	2.5	50	
	Machine weight	kg	6,600		
Floor Space (L / W / H) mm 2,850 / 3,283 / 2,592	Floor Space (L / W / H)	mm	2,850 / 3,2	283 / 2,592	

Standard Accessories

Spindle air blast	Centralized automatic lubricating system	Alarm light
Spindle chiller	Arm type 24 tool ATC system	Halogen work light
Coolant nozzels around spindle	Air gun system	Operating manual
Fully enclosed splash guard	Adjusting tools and tool box	Mechanical manual
Coolant system with pump and tank	Automatic power off system	Electrical manual
Catepillar type chip conveyor	Leveling bolts & pads	

LH-119	LH-119R	LH-119I	LH-119GR	LH-119GI	
	1,100		1,1	00	
	800		800		
900			90	0	
	100 ~ 1,000		100 ~	1,000	
	441		44	.1	
	10 ~ 810		10 ~ 810		
	1,166		1,166		
1,260 x 700	700	x 700	700 x	700	
740 x 700	700	x 700	700 x	700	
	18 x 5 x 145		18 x 5	x 125	
800	1,2	200	1,2	00	
	810		81	0	
1	0.001	1	0.001	1	
	15 / 18.5		15 /	18.5	
Belt	drive 6,000 (Opt. 4,500 / 8	,000)	Gear drive 4,500 (Opt. 6,000)		
	# 50		# 50		
	36 / 30 / 36		36 / 30	0 / 36	
	10		10		
Δrm	n type (Opt. Moveable arm	tyne)	Moveable	arm type	
7.111	24T (Opt. 40T)	type)	24T (Op		
	Ø 125 / Ø 250		Ø 125 /		
	300 (Opt. 400)		300 (Opt. 400)		
	15		15		
	\pm 0.005 / Full travel		± 0.005 /	Full travel	
	± 0.003		± 0.003		
_ 5.555					
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	4,979 / 3,775 / 2,896				
			Specifications are cubic	ct to change without notice	

Specifications are subject to change without notice.

Optional Accessories

Oil skimmer	Air condition for electric cabinet	Automatic voltage regulator
Coolant through spindle (20 bar)	Chain type 40 tool ATC system	Moveable arm type 24 tool ATC system
Automatic tool length measurement	Transformer	X / Y / Z axes optical linear scale