

300 Series

L300A/LA/MA/LMA/MSA/LMSA | L300C/LC/MC/LMC/MSC

HYUNDAI WIA CNC Turning Center



Technical Leader ▶

L300 series, designed by Hyundai WIA with years of expertise and the latest technology, is a Turning Center that maximizes productivity and performance.

MODEL	Chuck Size					Bed		Turret	
	10"	12"	15"	Big Bore	Sub 8"	Standard	Long	Standard	BMT65
L300A	●					●		●	
L300LA	●						●	●	
L300MA	●					●			●
L300LMA	●						●		●
L300MSA	●				●	●			●
L300LMSA	●				●		●		●
L300C		●	○	●		●		●	
L300LC		●	○	●			●	●	
L300MC		●	○	●		●			●
L300LMC		●	○	●			●		●
L300MSC		●	○	●	●	●			●

●: Standard ○: Option

300 Series

Versatile, High Production CNC Turning Center

- Rigidity secured through box guideways
- Highly accurate direct link and solid one-piece structure
- Main spindle heat displacement minimized
- All gearless type spindle machines applied with mill turret.
- Integrated process realized through adoption of 8" sub spindle
- Optional big bore spindle is available (L300C series)



01 BASIC STRUCTURE

Powerful Cutting Capability & Large Working Area CNC Turning Center

Turret

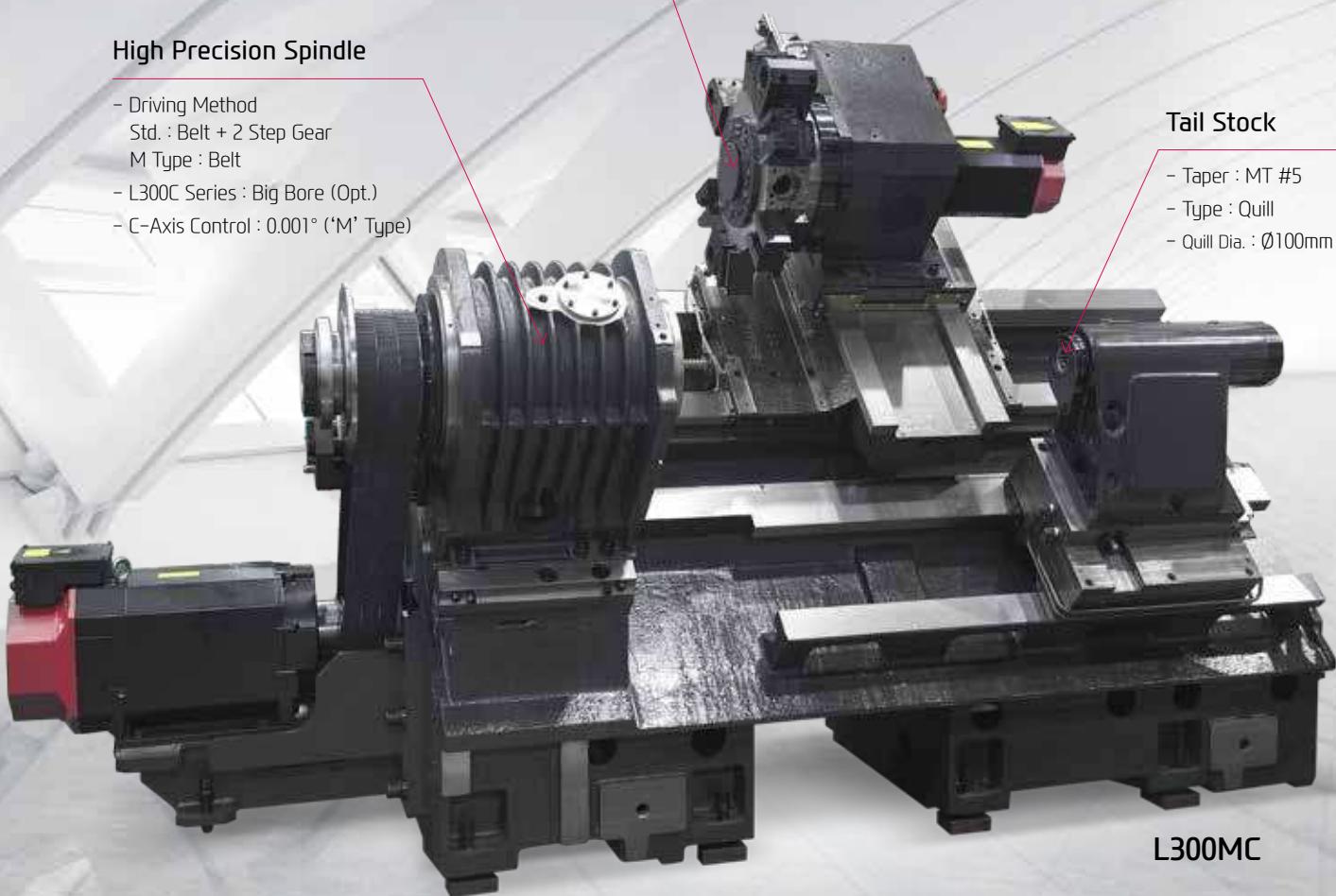
- No. of Tools : 12 EA
- Tool Size (O.D/I.D) : □25/Ø50 (□1"/Ø2")
- Mill Turret : BMT65

High Precision Spindle

- Driving Method
Std. : Belt + 2 Step Gear
M Type : Belt
- L300C Series : Big Bore (Opt.)
- C-Axis Control : 0.001° ('M' Type)

Tail Stock

- Taper : MT #5
- Type : Quill
- Quill Dia. : Ø100mm (Ø3.9")



MT#5 Tail Stock

The large (MT#5) tail stock ensures high accuracy even during heavy duty cutting. The quill can be operated by a foot pedal or a program. The quill body which is attached to the saddle, is operated manually by using the JOG button or MPG. (MT 4 Built-in Tail Stock : Option)

POWERFUL CUTTING CAPABILITY & WIDE CUTTING AREA

ALL-IN-ONE TYPE OF BED

High Precision & Rigidity, One-Piece Structure

The L300 features a 45° slant bed design which is developed through finite element analysis (FEA) to absorb vibration and minimize thermal growth. This ensures a stabilized platform for powerful, precise cutting capabilities.



GUIDEWAY

High-Speed Roller LM Guideway

All axes of L300 Series are designed with Box Guideways for better travel ability. Box Guideways show great performance in offsetting vibrations caused by heavy duty cutting.

Ball Screw

Large diameter ball screws with preloading prevent deformation due to heat. Also double-anchor support method improves rigidity.



Rapid Traverse Rate (X/Z/ZB)	20/24/20 m/min (787/945/787 ipm)
------------------------------	--

Travel (X/Z/ZB)

L300A/MA	L300MSA	L300LA/LMA	L300LMSA
290/750 (11.4"/29.5")	290/750/700 (11.4"/29.5"/27.6")	290/1,350 (11.4"/53.1")	290/1,350/1,200 (11.4"/53.1"/47.2")
L300C/MC	L300LC/LMC	L300MSC	
355/750 (14"/29.5")	355/1,350 (14"/53.1")	355/750/700 (14"/29.5"/27.6")	

02 HIGH PRECISION SPINDLE

Long Lasting, High Accuracy & Excellent Performance CNC Turning Center

Spindle Specifications

[] : Option

MODEL	Spindle Speed	Motor (Max./Cont.)	Torque (Max./Cont.)	Driving Method
L300A/LA	3,600 rpm (FANUC)	22/18.5 kW (30/25 HP)	739.5/622 N·m (545/458.8 lbf·ft)	Belt + 2 Step Gear
	[3,500 rpm (iTROL)]	[22/18.5 kW (30/25 HP)]	[783.2/652.7 N·m (577.7/481.4 lbf·ft)]	
L300C/LC	3,000 rpm (FANUC)	26/22 kW (35/30 HP)	1,131/957 N·m (834.2/705.8 lbf·ft)	Belt + 2 Step Gear
	[2,800 rpm (BIG BORE)]	[26/22 kW (35/30 HP)]	[1,325/1,121 N·m (977.3/826.8 lbf·ft)]	
	[3,000 rpm (iTROL)]	[26.4/22 kW (35.4/30 HP)]	[1,137/947.6 N·m (838.7/698.9 lbf·ft)]	
L300MA Series	3,500 rpm (FANUC)	22/18.5 kW (30/25 HP)	493.4/414.9 N·m (363.9/306 lbf·ft)	Belt
L300MC Series	3,000 rpm (FANUC)	22/18.5 kW (30/25 HP)	787.3/465 N·m (580.7/343 lbf·ft)	
	[2,800 rpm (BIG BORE)]	[22/18.5 kW (30/25 HP)]	[787.3/465 N·m (580.7/343 lbf·ft)]	
	[3,500 rpm (iTROL)]	[33.6/28 kW (45.1/37.5 HP)]	[481.1/400.9 N·m (354.8/295.7 lbf·ft)]	
Sub Spindle	4,000 rpm (FANUC)	11/7.5 kW (15/10 HP)	140.1/95.5 N·m (103.2/70.4 lbf·ft)	Belt

Spindle

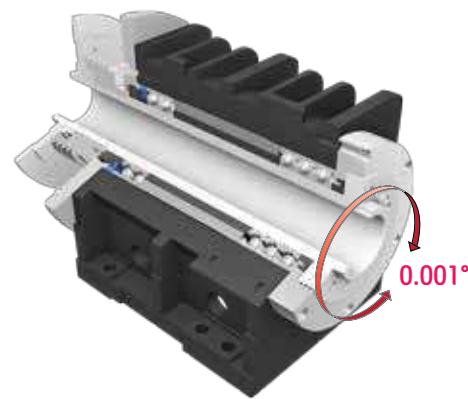
HEAVY DUTY CUTTING & HIGH ACCURACY

MAIN SPINDLE

Spindle Ideal for Heavy Cutting

The main spindle has a wide range of constant power and utilizes the same structure as high speed turning centers. It is designed to minimize thermal displacement and to maintain stable cutting Capability during high speed machining.

In particular, the enhanced processing and assembling accuracy of bearings enables the spindle unit to maintain high precision for a long time.



C-Axis Control ('M' Type)

The C axis is capable of 0.001° control when milling turret is applied. Machining capability is strengthened with turning and milling operations.

Gear Type Spindle

A two-step driving method is applied inside the main spindle as standard to non mill turret models.(L300A/C/LA/LC) It provides powerful torque at low speeds and stable rotation at high speeds.

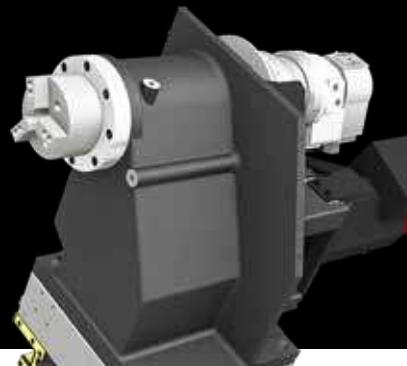


Gearless Type Spindle

Mill turret(BMT turret) equipped models are driven by the gearless method thereby reducing noise and providing outstanding surface finish.

8" SUB SPINDLE ('S' Type)

The Belt-type sub spindle is designed to minimize thermal displacement during the continuous machining, offering from the heavy-duty cutting to the high-speed machining. When the main spindle cutting is completed, the sub spindle rotation is synchronized with the main spindle allowing the workpiece to be transferred to the sub spindle, and machining can begin on the back side of the workpiece.



03 SERVO TURRET

High speed, High Accuracy, Highly Reliable Servo Turret

Servo Turret

No. of Tools

12 EA

Tool Size (O.D/I.D)

25/Ø50 mm (1"/Ø2")

Indexing Time

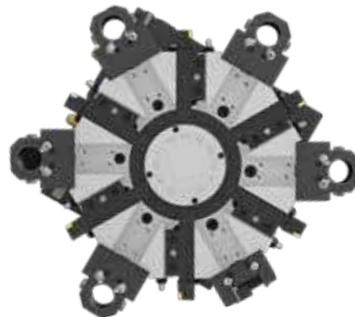
0.3 sec

Mill Turret

ITEM	Speed	Motor (Max./Cont)	Torque (Max./Cont)	Collet Size
BMT65	4,000 rpm	5.5/3.7 kW (7.5/5HP)	35/23.5 N·m (25.8/17.3 lbf·ft)	Ø20 (Ø3/4") /ER32

VARIOUS DRIVEN PRECISION BMT TOOL HOLDERS

TURRET



Servo Turret

The turret of L300 series are applied with high performance AC servo motor, improving machining reliability. 3-piece coupling shows excellent performance in indexing. Powerful hydraulic tool clamping minimizes tool tip deviation caused by load.

20 Bar(290 psi) High Pressure Coolant **OPTION**

Turret is designed to utilize 20 bar (290 psi) high pressure coolant and it shows optimum performance in machining difficult-to-cut material.

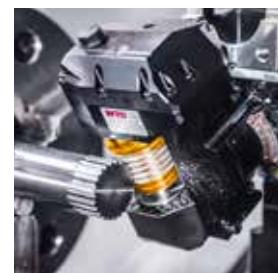
BMT65 Turret

The BMT turret secures the tool with four bolts and key on the tool mounting surface of the turret, making it possible to powerfully fix the tool, ensuring high reliability in rigidity and precision.



Mill Tool Holder

Machining capability has increased with the addition of straight milling head tool holder.



Special Tool

OPTION

The L300 series can process high value-added products using a variety of rotating tools. In particular, there is a multi-holder for attaching a variety of tools to one holder, and an eccentric rotary tool for handling eccentric parts without additional axis travel, which can realize integration of process with one machine.

❖ Consultation needed when ordering these options.

04 USER CONVENIENCE

Various Devices for User Friendly

BAR FEEDER SYSTEM

Bar Feeder

Bar feeder system enables automation which leads to efficiency improvement.

Long Type : 3 m (118.1")	Short Type : 1.5 m (59.1")
Bar Capacity : Ø42 (1.7")	Bar Capacity : Ø65 (2.6")



Parts Catcher

An optional parts catcher collects finished parts without the need to open the door, adding productivity, especially when a bar feeder is attached.



Parts Conveyor

The parts conveyor transfers the finished workpiece unloaded by the parts catcher for user convenience.



Auto Door

Using M-code, the doors can be automatically opened and closed which brings productivity and convenience for automation.



Auto Shutter

Using auto shutter, automation system with gantry loader is possible without opening the machine's door.

HIGH PRECISION SYSTEM



Automatic Q-Setter

Cutting tools are calibrated quickly and accurately with the addition of a q-setter. Each tool tip is touched off manually using a sensor that inputs the position automatically.



Linear Scale

Linear scales increase positioning accuracy and reduce distortion caused by thermal growth, thus ensuring a more accurate finished part.



Work Probe

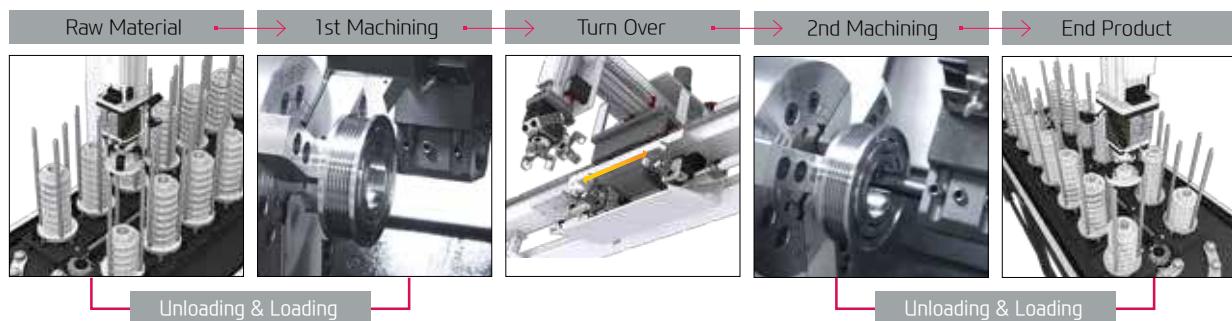
Workpiece coordinate values can be set automatically using the optional spindle probe.

Optional

GANTRY LOADER SYSTEM

Gantry Loader Machining Process

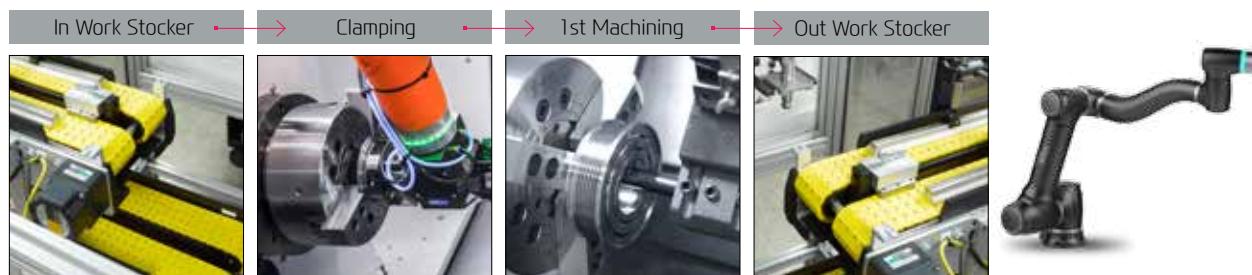
The high speed gantry loaders and the work stocker allow the implementation of automation cells. This enables flexible machining process and productivity enhancement. Optimization of the installation space is also possible.



ROBOT AUTOMATION SYSTEM

Robot System Machining Process

Hyundai WIA is able to deliver high quality factory automation system through the precision technologies accumulated by a long time experience of machine tool manufacturing, and the operation capability acquired from the automobile parts manufacturing business.



SPECIFICATIONS

L300 Series Standard & Optional

Spindle	A(LA)	MA(LMA)	MSA(LMSA)	
Main Spindle	●	●	●	
Hollow Chuck 3 Jaw	○	○	○	
Main Spindle	○	☆	☆	
Solid Chuck 3 Jaw	○	☆	☆	
Sub Spindle	-	-	●	
Hollow Chuck 3 Jaw	-	-	-	
Sub Spindle	-	-	○	
Solid Chuck 3 Jaw	○	○	-	
Standard Soft Jaw (1set)	●	●	●	
Chuck Clamp Foot Switch	●	●	●	
2 Steps Hyd. Pressure Device	○	○	○	
Spindle Inside Stopper	☆	☆	☆	
Cs-Axis (0.001°)	○	●	●	
Chuck Open/Close Confirmation Device	○	○	○	
2 Steps Chuck Foot Switch	○	○	○	
Turret				
Tool Holder	●	●	●	
Mill Turret	BMT	-	●	
Straight Milling Head (Radial)	Collet Type,2ea	-	●	
Angular Milling Head (Axial)	Collet Type,2ea	-	●	
SUB Angular Milling Head (Axial)	Collet Type,1ea	-	●	
Straight Milling Head (Radial)	Adapter Type	-	○	
Angular Milling Head (Axial)	Adapter Type	-	○	
SUB Angular Milling Head (Axial)	Adapter Type	-	○	
Boring Sleeve	●	●	●	
Drill Socket	●	●	●	
U-Drill Holder	○	○	○	
U-Drill Holder Sleeve	○	○	○	
O.D Extension Holder	For Out-Dia	○	-	
Angle Head	-	☆	☆	
Tail Stock & Steady Rest				
Quill Type Tail Stock (Foot Switch)	●	●	-	
Built in Tail Stock (MT#4)	○	○	-	
Programable Tail Stock	○	○	-	
Programable Hyd. Steady Rest	○	○	-(○)	
Manual Steady Rest	☆	☆	-(☆)	
Standard Live Center	●	●	-	
High Precision Live Center	☆	☆	-	
2 Steps Tail Stock Pressure System	☆	☆	-	
Quill Forward/Reverse Confirmation Device	○(CE:●)	○(CE:●)	-	
Coolant & Air Blow				
Standard Coolant (Nozzle)	●	●	●	
Chuck Coolant (Upper Chuck)	○	○	○	
Gun Coolant	○	○	○	
Through Spindle Coolant (Only for Special Chuck)	☆	☆	☆	
Thru Coolant for Live Tool	-	☆	☆	
Chuck Air Blow (Upper Chuck)	○	○	○	
Sub Spindle Air Blow	-	-	○	
Tail Stock Air Blow (Upper Tail Stock)	○	○	-	
Turret Air Blow	☆	☆	☆	
Air Gun	○	○	○	
Through Spindle Air Blow (Only for Special Chuck)	☆	☆	☆	
1.5Bar	●	●	●	
6Bar	○	○	○	
14.5Bar	○	○	○	
20Bar	○	○	○	
Power Coolant System (For Automation)	☆	☆	☆	
Coolant Chiller	☆	☆	☆	
Chip Disposal				
Coolant Tank	220 l (58.1 gal) 270 l (71.3 gal)	A (●) LA (●)	MA (●) LMA (●)	MSA (●) LMSA (●)
Chip Conveyor (Hinge/Scraper)	Front (Rear)	○ (-)	○ (-)	-
Special Chip Conveyor (Drum Filter)	Front (Right)	○	○	○
Chip Wagon	Stdard (180 l [47.5 gal])	○	○	○
	Swing (200 l [52.8 gal])	○	○	○
	Large Swing (290 l [76.6 gal])	○	○	○

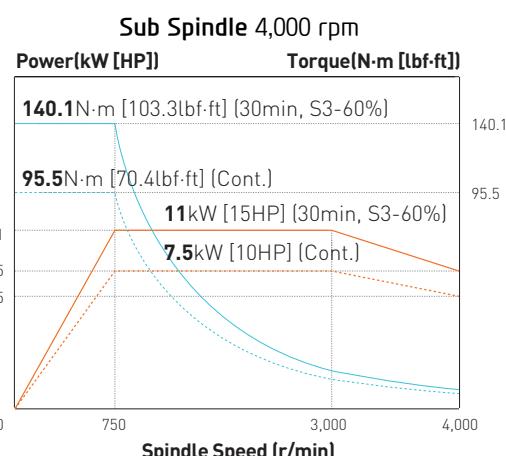
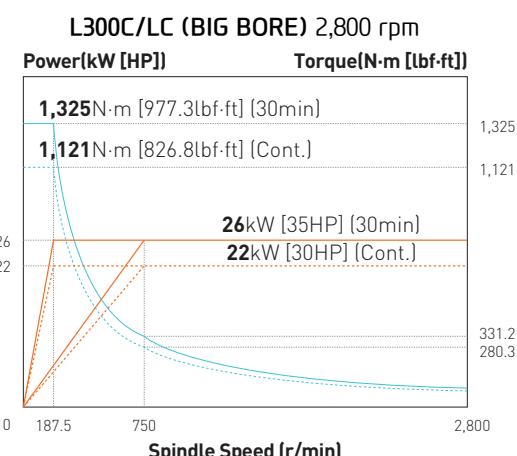
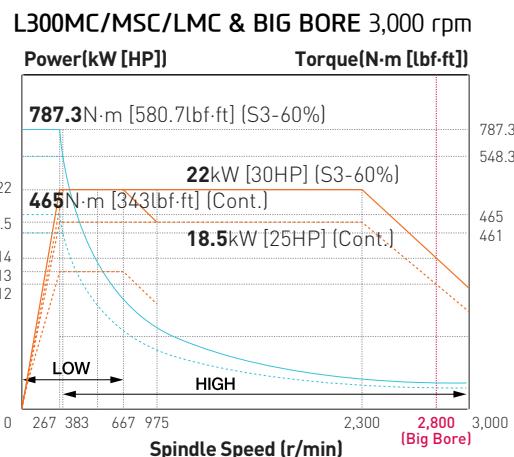
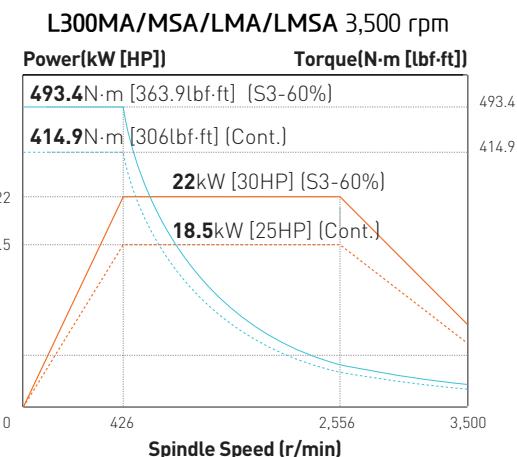
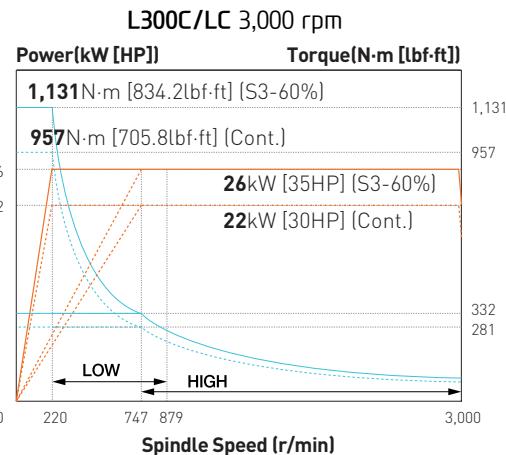
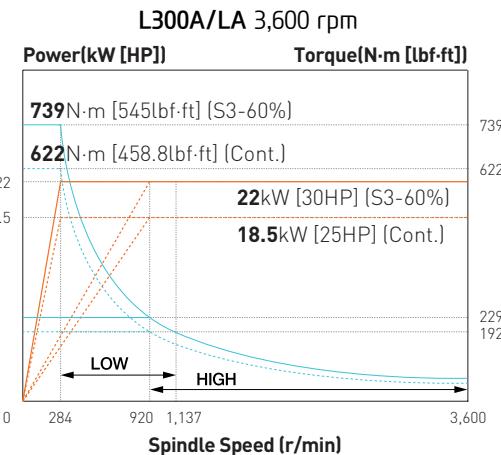
● : Standard ○ : Option ☆ : Prior Consultation - : Non Applicable

Chip Disposal	A(LA)	MA(LMA)	MSA(LMSA)
Chip Wagon	Large Size (330 l [87.2 gal]) Customized	○ ☆	○ ☆
Safety Device			
Total Splash Guard	●	●	●
Chuck hydraulic pressure maintenance interlock	○(CE:●)	○(CE:●)	○(CE:●)
Electric Device			
Call Light	1Color :	●	●
	3Color :	○	○
Electric Cabinet Light		○	○
Remote MPG	○	○	○
Work Counter	Digital	○	○
Total Counter	Digital	○	○
Tool Counter	Digital	○	○
Multi Tool Counter	Digital	○	○
Electric Circuit Breaker	○	○	○
Transformer	30kVA 35kVA	○ -	○ ○
Auto Power Off	○	○	○
Measurement			
Q-Setter	●	●	●
Automatic Q-Setter	○	○	○
Work Close Confirmation Device	TACO (Only for Special Chuck)	☆ SMC	☆ ☆ ☆
Work Setter (RENISHAW/MARPOSS)	○	○	○
Linear Scale	X axis Z axis	○ ○	○ ○
Coolant Level Sensor (Only for Chip Conveyor)	☆	☆	☆
Environment			
Air Conditioner	FANUC HYUNDAI-iTROL	○ ●	○ -
Oil Mist Collector	☆	☆	☆
Oil Skimmer (Only for Chip Conveyor)	○	○	○
MQL (Minimal Quantity Lubrication)	☆	☆	☆
Fixture & Automation			
Auto Door	Standard High Speed	○ ☆	○ ☆
Auto Shutter (Only for Automatic System)	☆	☆	☆
Sub Operation Pannel	○	○	○
Bar Feeder Interface	☆	☆	☆
Bar Feeder (FEDEK)	○	○	○
Extra M-Code 4ea	☆	☆	☆
Automation Interface	○	○	○
I/O Extension (IN & OUT)	16 Contact 32 Contact	○ ○	○ ○
Parts Catcher	Main SP. Sub SP.	- -	- ○
Sub Sp. Work Pusher (Pneumatic Type)	☆	☆	☆
Turret Work Pusher (For Automation)	☆	☆	☆
Parts Conveyor	☆	☆	☆
Hyd. Device			
Standard Hyd. Cylinder	Hollow	●	●
Standard Hyd. Unit	35bar/20 l (5.3gal)	●	●
S/W			
Machine Guidance (HW-MCG)	●	●	●
Energy Saving System (HW-ESS)	●	●	●
Tool Monitoring (HW-TM)	○	○	○
Spindle Heat Distortion Compensation(HW-TDC)	○	○	○
DNC software (HW-eDNC)	○	○	○
Machine Monitoring System (HW-MMS)	○	○	○
Conversational program (HW-DPRO)	○	○	○
ETC			
Tool Box	●	●	●
Customized Color	Need Munsell No.	☆	☆
CAD & CAM		☆	☆

♦ 4 channel of TDC(Thermal Displacement Compensation) device is recommended, when more than 6 bar of high pressure coolant is applied, for the high quality machining.
Specifications are subject to change without notice for improvement.

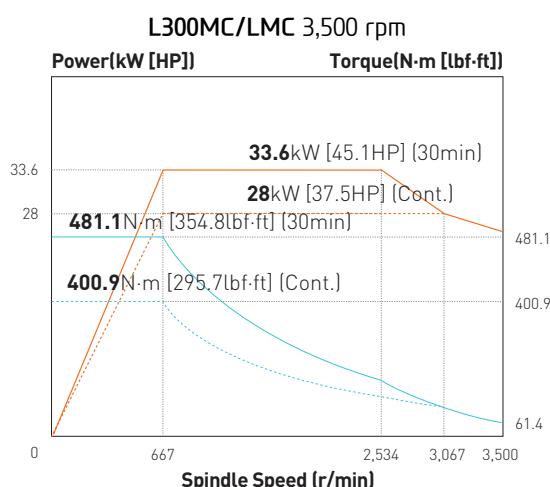
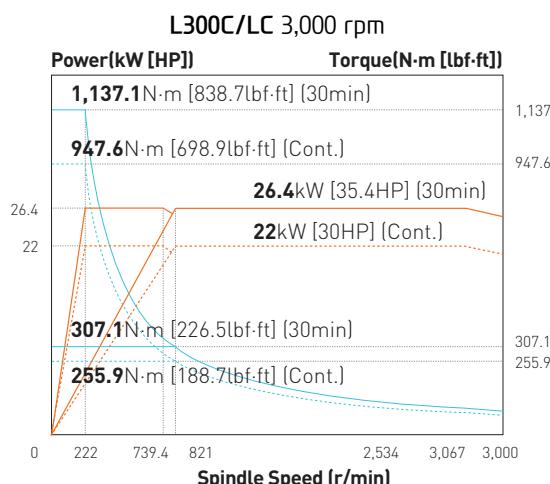
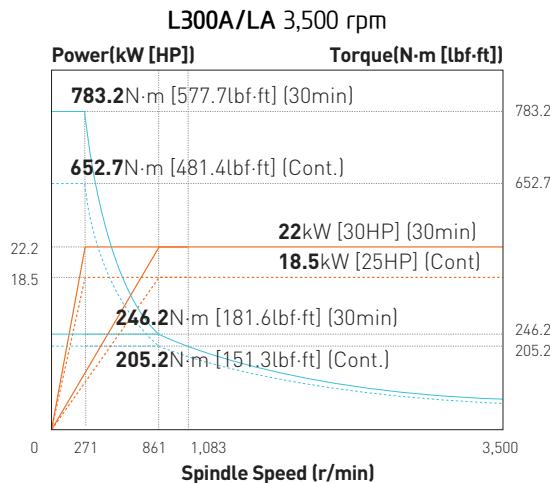
SPECIFICATIONS

Spindle Output/Torque Diagram (HYUNDAI WIA FANUC)



SPECIFICATIONS

Spindle Output/Torque Diagram (HYUNDAI-iTROL)

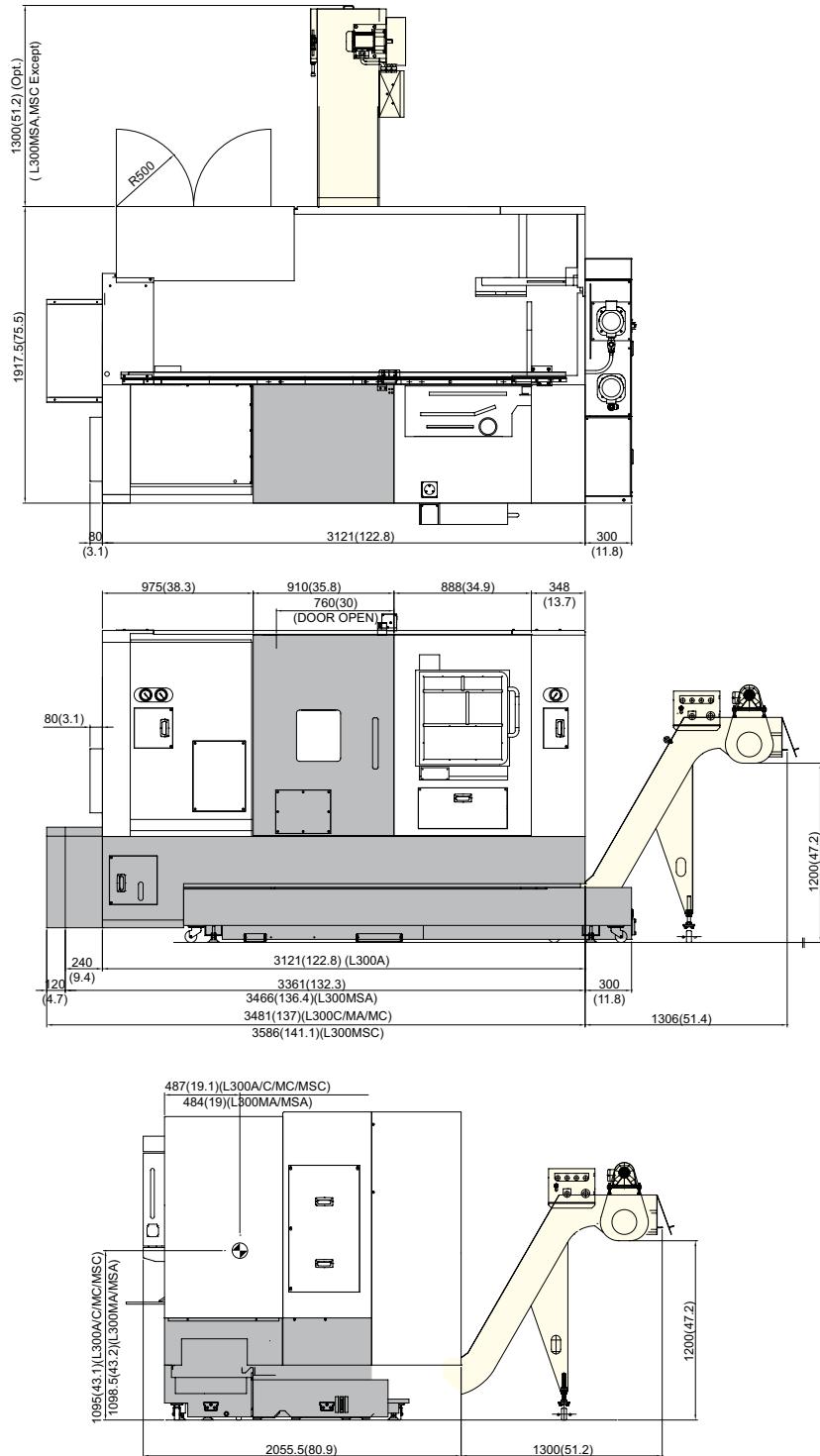


SPECIFICATIONS

External Dimensions

unit : mm(in)

L300A/MA//MSA
L300C/MC//MSC

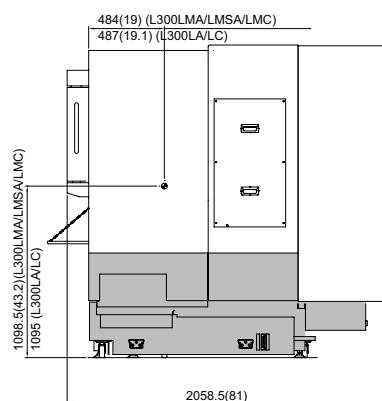
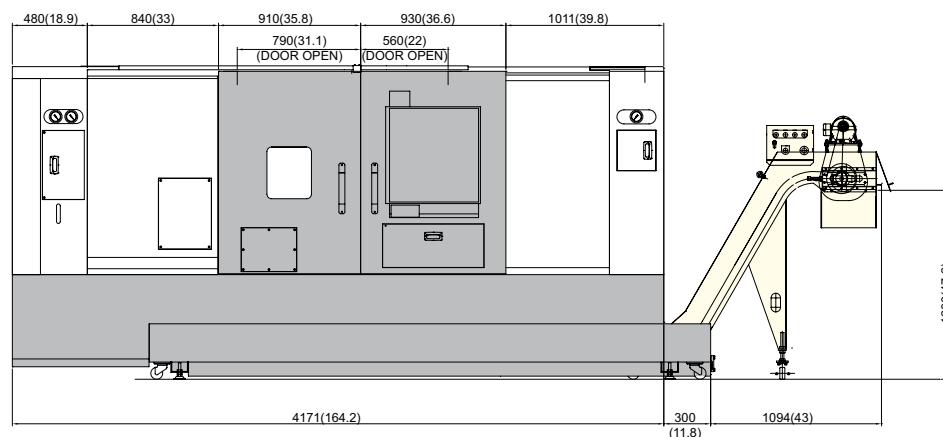
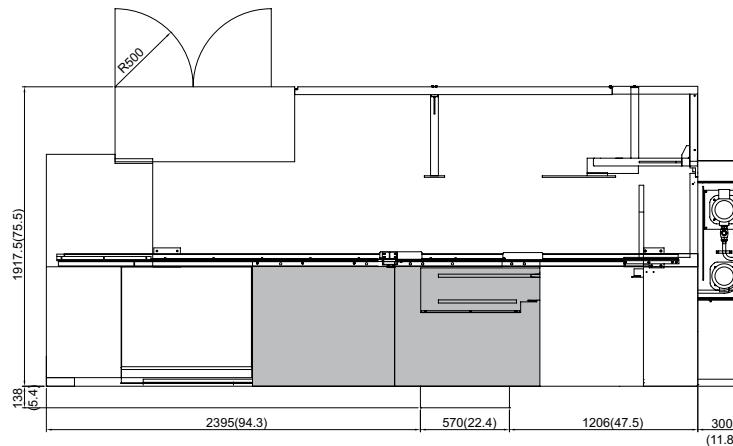


SPECIFICATIONS

External Dimensions

unit : mm(in)

L300LA/LMA/LMSA
L300LC/LMC/LMSC

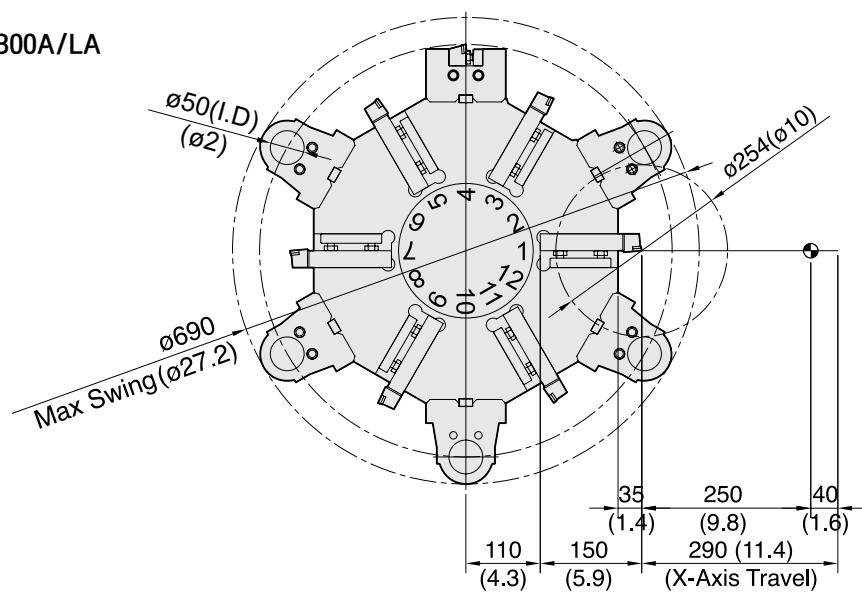


SPECIFICATIONS

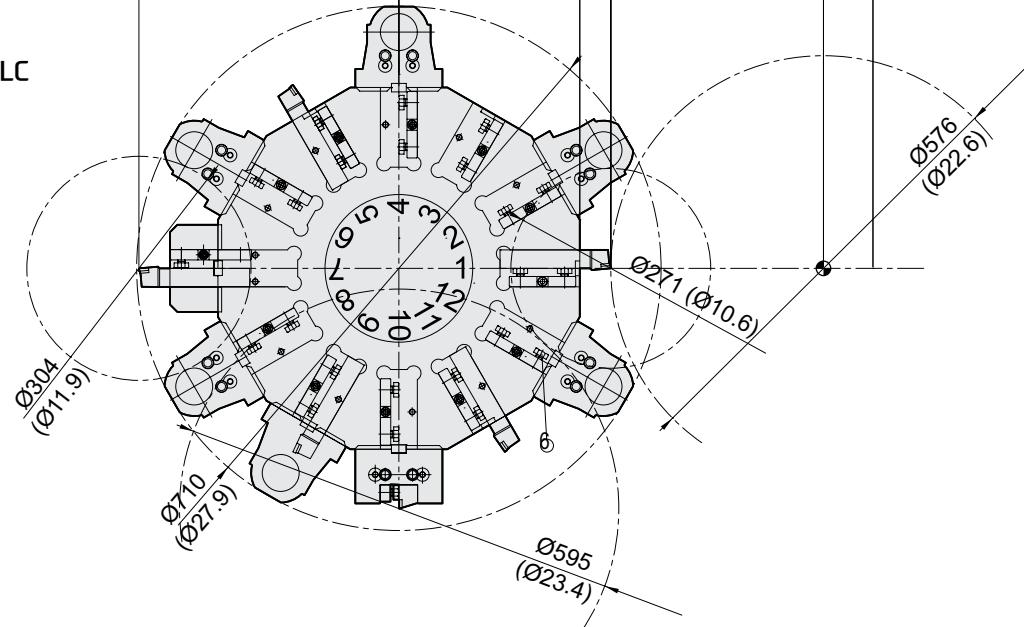
Interference

unit : mm(in)

L300A/LA



L300C/LC

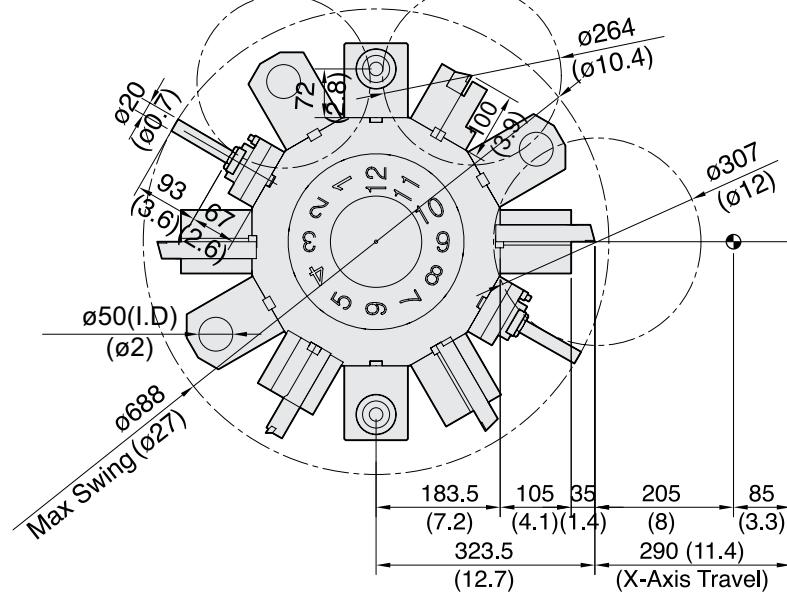


SPECIFICATIONS

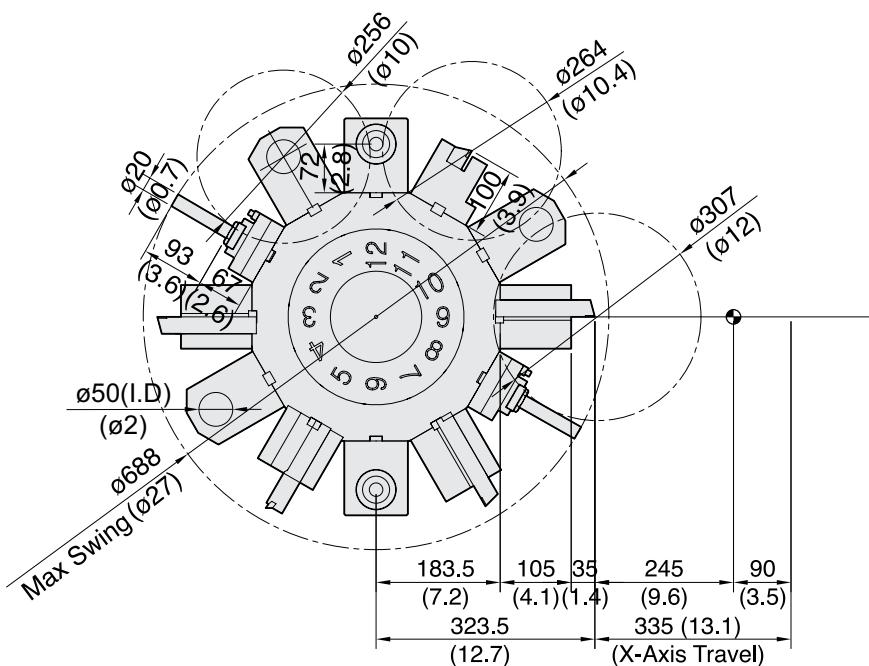
Interference

unit : mm(in)

L300MA/LMA



L300MC/LMC

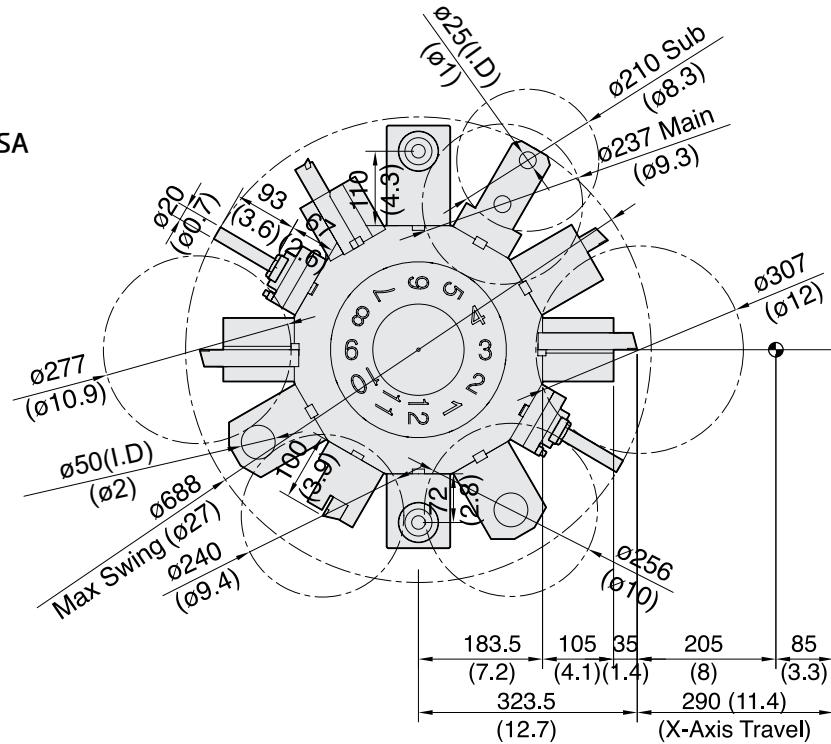


SPECIFICATIONS

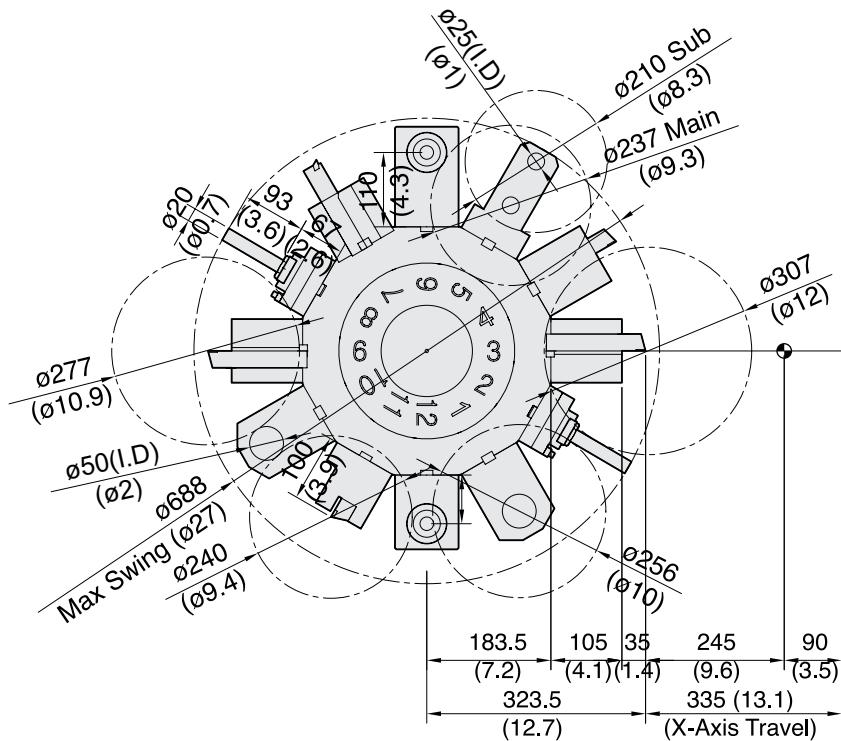
Interference

unit : mm(in)

L300MSA/LMSA



L300MSC

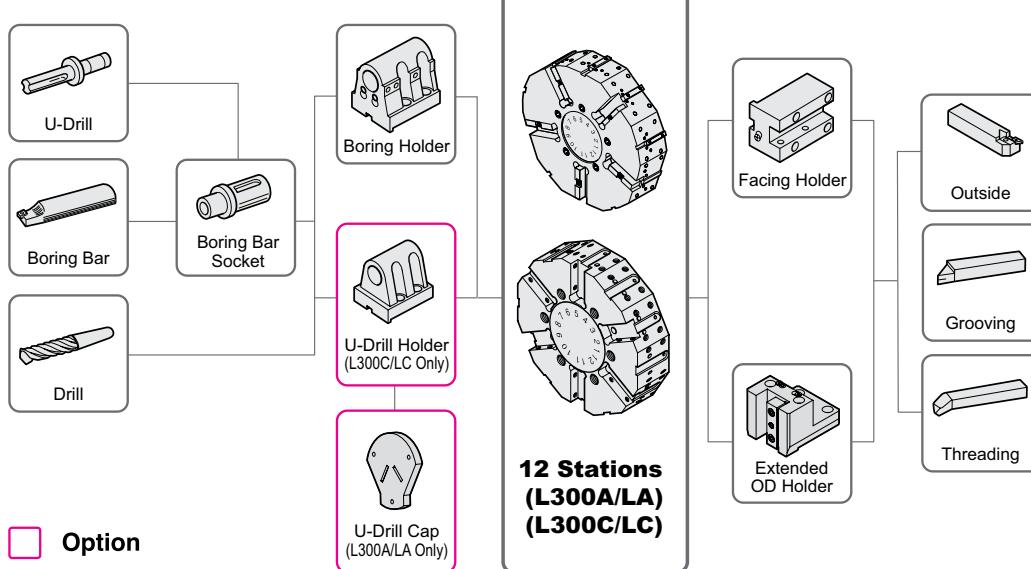


SPECIFICATIONS

Tooling System

unit : mm(in)

L300A/LA L300C/LC



Tooling Parts Detail

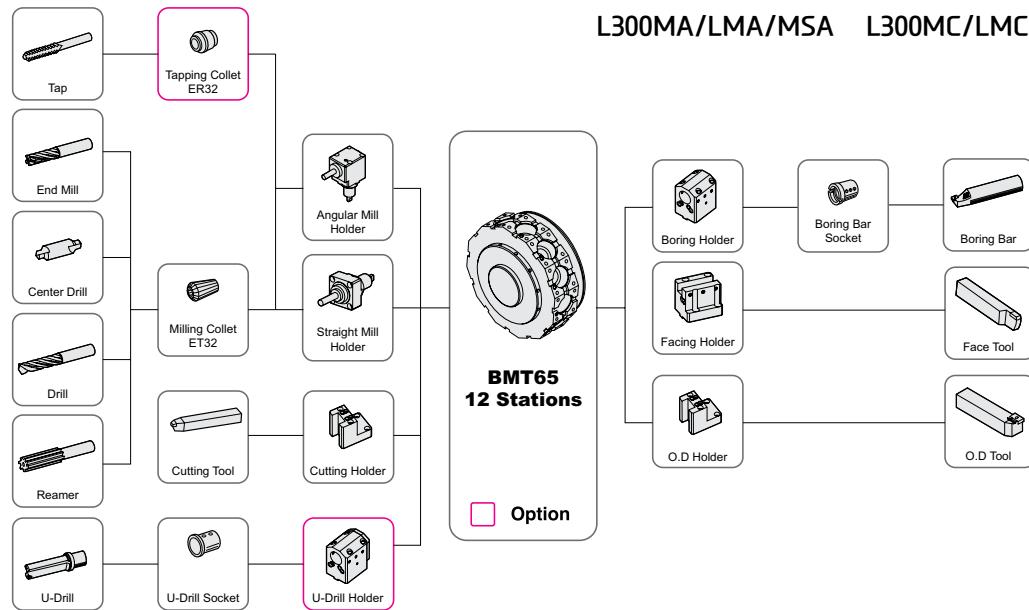
ITEM			A/LA		C/LC	
			mm Unit	inch Unit	mm Unit	inch Unit
Turning Holder	O.D Holder	Right/Left	-	-	-	-
		Extension	-	-	1	1
	Facing Holder		1	1	1	1
Boring Holder	Cutting Holder		-	-	-	-
	I.D Holder	Single	5	5	5	5
	U-Drill Holder	Tool Holder	Opt.	Opt.	Opt.	Opt.
		Cap	Opt.	Opt.	-	-
Driven Holder	Straight Mill Holder	Standard	-	-	-	-
	Angular Mill Holder	Standard	-	-	-	-
Socket	Boring Main	Ø16 (Ø5/8")	-	-	-	-
		Ø20 (Ø3/4")	1	1	1	1
		Ø25 (Ø1")	-	-	-	-
		Ø32 (Ø1 1/4")	1	1	1	1
		Ø40 (Ø1 1/2")	-	-	-	-
		Ø45 (Ø1 3/4")	-	-	-	-
	Boring Sub	Ø6×Ø25 (1/4")	-	-	-	-
		Ø12×Ø25 (1/2")	-	-	-	-
		Ø20×Ø25 (3/4")	-	-	-	-
	MT	MT 2	1	1	1	1
		MT 3	1	1	1	1
		MT 4	1	1	1	1
	ER Collet		-	-	-	-

Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Tooling System

unit : mm(in)



Tooling Parts Detail

ITEM		MA/MC/LMA/LMC		MSA		MSC/LMSA/LMSC	
		mm Unit	inch Unit	mm Unit	inch Unit	mm Unit	inch Unit
Turning Holder	O.D Holder	Right/Left	4	4	1	1	1
		Double	-	-	1	1	1
		Sub	-	-	1	1	1
	Facing Holder		1	1	1	1	1
Boring Holder	I.D Holder	Single	3	3	2	2	2
		Double	-	-	1	1	1
	U-Drill Holder	Tool Holder/Cap	Opt.	Opt.	Opt.	Opt.	Opt.
Driven Holder	Straight Mill Holder	Standard	2	2	2	2	2
	Angular Mill Holder	Standard	2	2	2	2	2
		Long	-	-	-	1	1
Socket	Boring Main	Ø16 (Ø5/8")	1	-	1	-	1
		Ø20 (Ø3/4")	1	1	1	1	1
		Ø25 (Ø1")	1	1	1	1	1
		Ø32 (Ø1 1/4")	1	1	1	1	1
		Ø40 (Ø1 1/2")	1	1	1	1	1
		Ø45 (Ø1 3/4")	-	1	-	1	-
	Boring Sub	Ø6xØ25 (1/4")	-	-	1	1	1
		Ø12xØ25 (1/2")	-	-	1	1	1
		Ø20xØ25 (3/4")	-	-	1	1	1
	Drill	MT 1 × MT 2	1	1	1	1	1
		MT 2	1	1	1	1	1
		MT 3	1	1	1	1	1
		MT 4	1	1	1	1	1
	ER Collet		1 Set	1 Set	1 Set	1 Set	1 Set

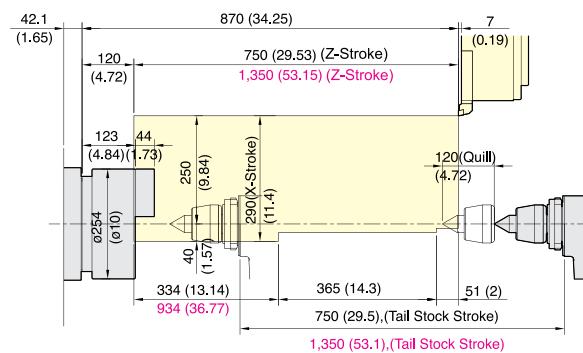
SPECIFICATIONS

Tooling Travel Range

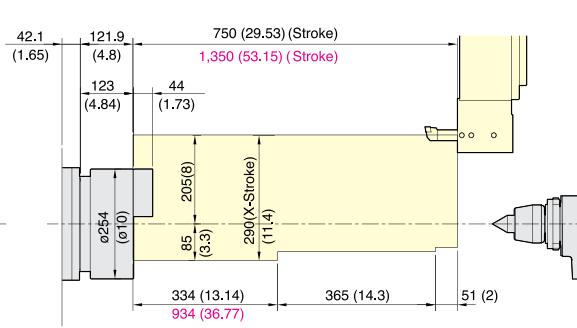
unit : mm(in)

L300A L300LA

OD TOOL HOLDER

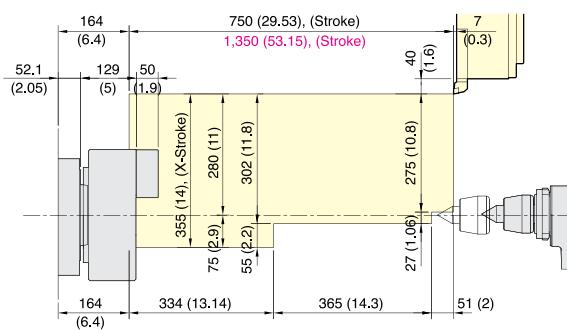


ID TOOL HOLDER

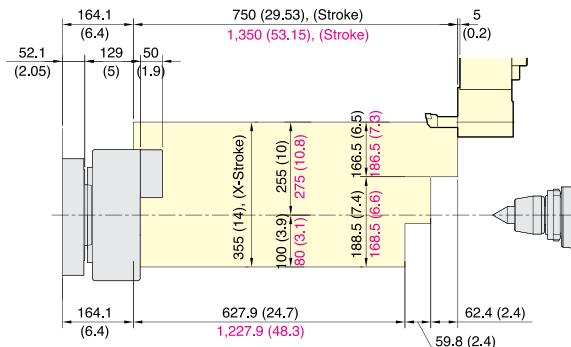


L300C L300LC

OD TOOL HOLDER



ID TOOL HOLDER



SPECIFICATIONS

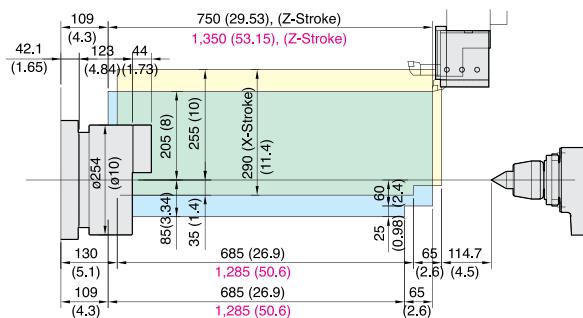
Tooling Travel Range

unit : mm(in)

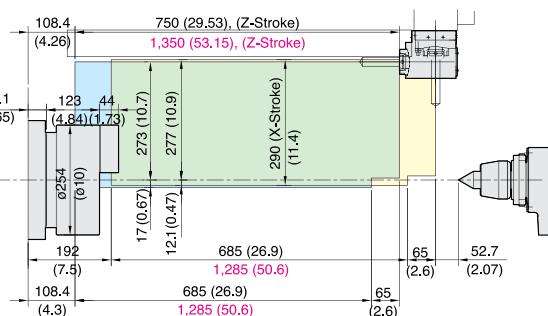
L300MA

L300LMA

OD/ID TOOL HOLDER



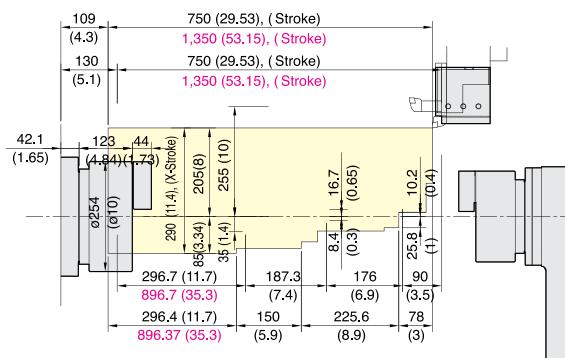
DRILL/END MILL TOOL HOLDER



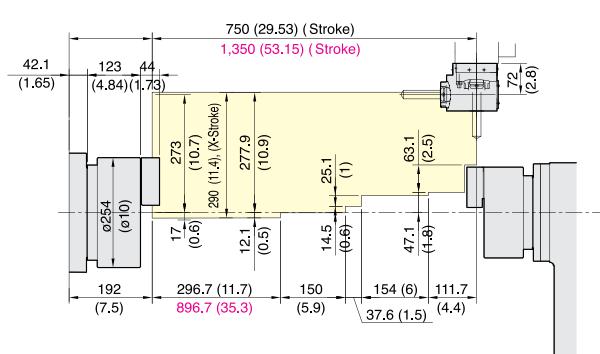
L300MSA

L300LMSA

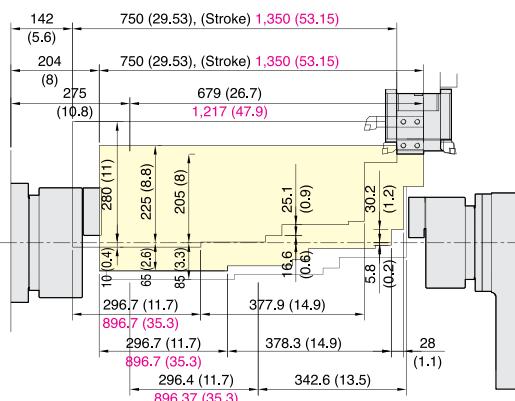
OD/ID TOOL HOLDER



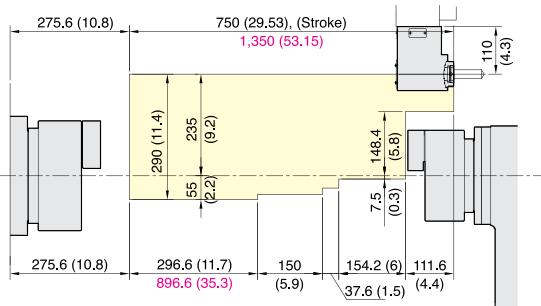
DRILL/END MILL TOOL HOLDER



DOUBLE OD/ID TOOL HOLDER



SUB MILL TOOL HOLDER



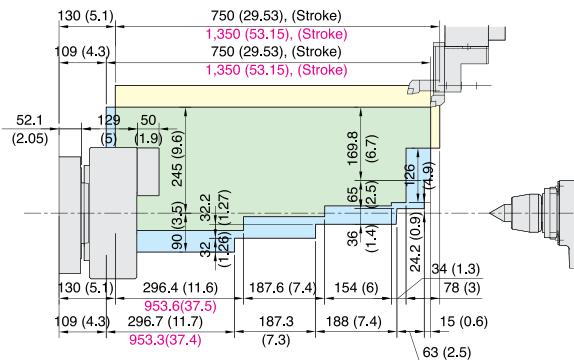
SPECIFICATIONS

Tooling Travel Range

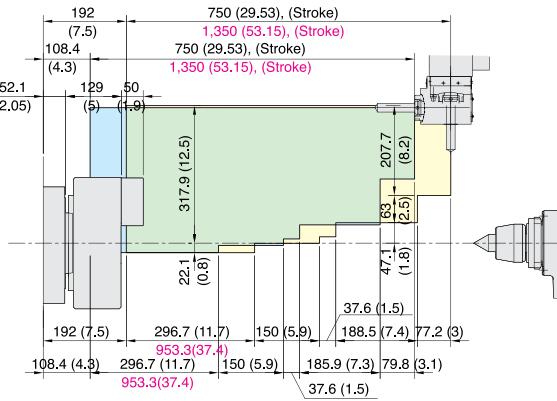
unit : mm(in)

L300MC L300LMC

OD/ID TOOL HOLDER

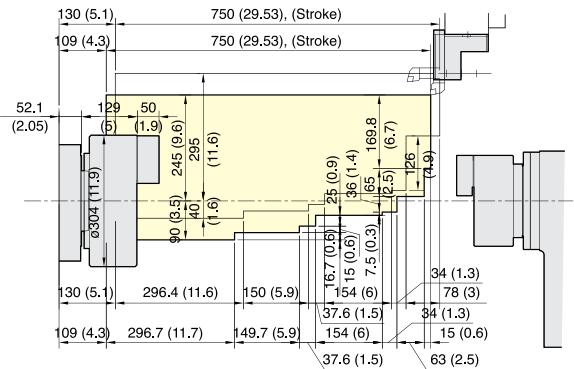


DRILL/END MILL TOOL HOLDER

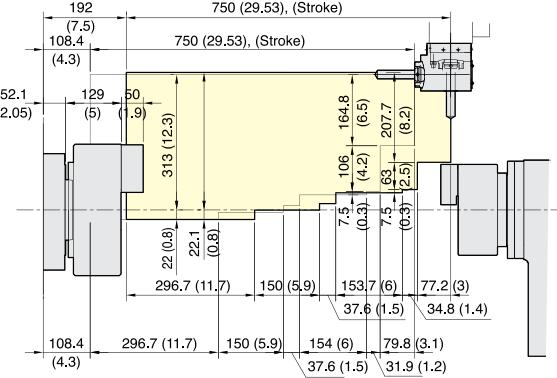


L300MSC

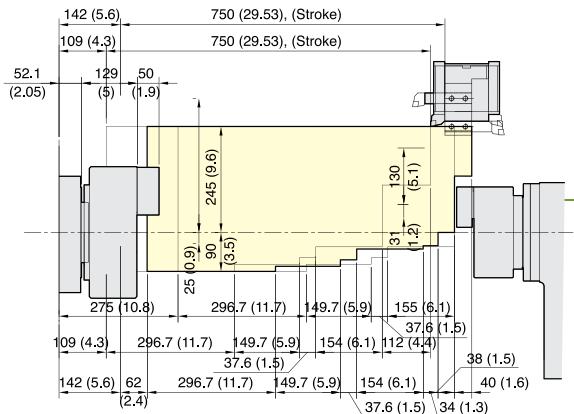
OD/ID TOOL HOLDER



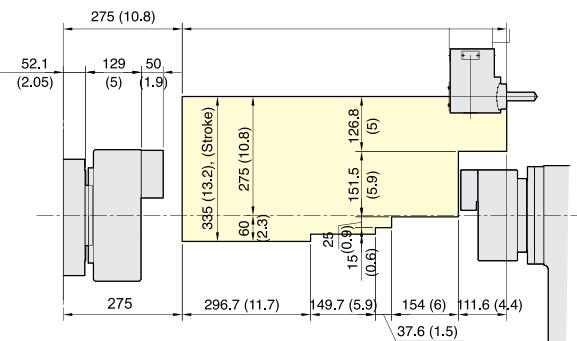
DRILL/END MILL TOOL HOLDER



DOUBLE OD/ID TOOL HOLDER



SUB MILL TOOL HOLDER



SPECIFICATIONS

Specifications

[] : Option

ITEM		L300A	L300MA	L300MSA
CAPACITY	Swing Over the Bed	mm(in)	Ø750 (29.5")	
	Swing Over the Carriage	mm(in)	Ø480 (18.9")	
	Max. Turning Dia.	mm(in)	Ø500 (19.7")	Ø410 (16.1")
	Max. Turning Length	mm(in)	720 (28.3")	680 (26.8")
	Bar Capacity	Main mm(in)	Ø76 (3")	
SPINDLE	Sub mm(in)	-	Ø65 (2.6")	
	Chuck Size	Main inch	10"	
	Sub inch	-	8"	
	Spindle Bore	Main mm(in)	Ø90 (3.5")	Ø95(3.7")
	Sub mm(in)	-	-	Ø78 (3.1")
	Spindle Speed (rpm)	Main r/min	3,600 [3,500]	3,500
	Sub r/min	-	-	4,000
	Motor (Max/Cont.)	Main kW(HP)	22/18.5 (30/25) [22/18.5 (30/25)]	22/18.5 (30/25)
	Sub kW(HP)	-	-	11/7.5 (15/10)
	Torque (Max/Cont.)	Main N·m(lbf·ft)	739/622 (545/458.8) [783.2/652.7 (577.7/481.4)]	493.4/414.9 (363.9/306)
FEED	Sub N·m(lbf·ft)	-	-	140.1/95.5
	Spindle Type	Main -	Belt+2Step Gear	Belt
	Sub -	-	-	Belt
	Spindle Nose	Main -	A2-8	
	Sub -	-	-	A2-6
C-axis Indexing		deg	-	0.001°
TURRET	Travel (X/Z/ZB)	mm(in)	290/750 (11.4"/29.5")	290/750/700 (11.4"/29.5"/27.5")
	Rapid Traverse Rate (X/Z/ZB)	m/min	20/24	20/24/20
	Slide Type	-	BOX GUIDE	
LIVE TOOL	No. of Tools	EA	12	
	Tool Size	OD mm(in)	Ø25 (1")	
		ID mm(in)	Ø50 (2")	
	Indexing Time	sec/step	0.3	
TAIL STOCK	Motor (Max/Cont.)	kW(HP)	-	5.5/3.7 (7.4/4.7)
	Milling Tool Speed (rpm)	r/min	-	4,000
	Torque (Max/Cont.)	N·m(lbf·ft)	-	35/23.5 (25.8/17.3)
	Collet Size	mm(in)	-	Ø20 (0.8") - ER32
	Type	-	-	BMT65P
TANK CAPACITY	Taper	-	MT5	-
	Quill Dia.	mm(in)	Ø100 (3.9")	-
	Quill Travel	mm(in)	120 (4.72)	-
	Travel	mm(in)	750 (29.5)	-
POWER SUPPLY	Coolant Tank	l (gal)	220 (58.1)	
	Lubricating Tank	l (gal)	1.8 (0.5)	
MACHINE	Electric Power Supply	kVA	25	27
	Thickness of Power Cable	Sq	Over 25	Over 35
	Voltage	V/Hz	220/60 (200/50*)	
NC	Floor Space (L×W)	mm(in)	3,200×2,002(126"×78.8")	3,360×2,002(132.3"×78.8")
	Height	mm(in)	1,997 (78.6")	
	Weight	kg(lb)	6,300 (13,889)	6,500 (14,330)
NC	Controller	-	HW F i Series [iTROL]	HW F i Series [F 32i-B]
				F 32i-B

*) Using 50Hz voltage instead of 60Hz may lower the output of motors. (excluding servo motors and inverter motors)

Prior consultation is required when applying spindle contouring control for gear driven spindle.

Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Specifications

[] : Option

ITEM		L300LA	L300LMA	L300LMSA
CAPACITY	Swing Over the Bed	mm(in)		Ø750 (29.5")
	Swing Over the Carriage	mm(in)		Ø480 (18.9")
	Max. Turning Dia.	mm(in)	Ø500 (19.7")	Ø410 (16.1")
	Max. Turning Length	mm(in)	1,320 (52")	1,280 (50.4")
	Bar Capacity	Main Sub	mm(in) mm(in)	Ø76 (3") Ø65 (2.6")
SPINDLE	Chuck Size	Main Sub	inch inch	10" 8"
	Spindle Bore	Main Sub	mm(in) mm(in)	Ø90 (3.5") Ø95(3.7") Ø78 (3.1")
	Spindle Speed (rpm)	Main Sub	r/min r/min	3,600 [3,500] 3,500 4,000
	Motor (Max/Cont.)	Main Sub	kW(hp) kW(hp)	22/18.5 (30/25) [22/18.5 (30/25)] 22/18.5 (30/25) 11/7.5 (15/10)
	Torque (Max/Cont.)	Main Sub	N·m(lbf·ft) N·m(lbf·ft)	739/622 (545/458.8) [783.2/652.7 (577.7/481.4)] 493.4/414.9 (363.9/306) 140.1/95.5
	Spindle Type	Main Sub	- -	Belt+2Step Gear Belt
	Spindle Nose	Main Sub	- -	A2-8 A2-6
	C-axis Indexing	deg	-	0.001°
	Travel (X/Z/ZB)	mm(in)	290/1,350(11.4"/53.1")	
	Rapid Traverse Rate (X/Z/ZB)	m/min	20/24	
FEED	Slide Type	-	BOX GUIDE	
TURRET	No. of Tools	EA	12	
	Tool Size	OD ID	mm(in) mm(in)	Ø25 (1") Ø50 (2")
	Indexing Time	sec/step	0.3	
LIVE TOOL	Motor (Max/Cont.)	kW(hp)	-	5.5/3.7 (7.4/4.7)
	Milling Tool Speed (rpm)	r/min	-	4,000
	Torque (Max/Cont.)	N·m(lbf·ft)	-	35/23.5 (25.8/17.3)
	Collet Size	mm(in)	-	Ø20 (0.8") -ER32
	Type	-	-	BMT65P
TAIL STOCK	Taper	-	MT5	-
	Quill Dia.	mm(in)	Ø100 (3.9")	-
	Quill Travel	mm(in)	120 (4.72)	-
	Travel	mm(in)	1,350 (53.1)	-
TANK CAPACITY	Coolant Tank	l (gal)	270 (71.3)	
	Lubricating Tank	l (gal)	1.8 (0.5)	
POWER SUPPLY	Electric Power Supply	kVA	25	27
	Thickness of Power Cable	Sq	Over 25	Over 35
	Voltage	V/Hz	220/60 (200/50*)	
MACHINE	Floor Space (L×W)	mm(in)	4,171×2,002 (164.2"×78.8")	
	Height	mm(in)	1,997 (78.6")	
	Weight	kg(lb)	7,500 (16,535)	7,700 (16,976)
NC	Controller	-	HW F i Series [iTROL]	F 32i-B [HW F i Series]
				F 32i-B

*) Using 50Hz voltage instead of 60Hz may lower the output of motors. (excluding servo motors and inverter motors)

Prior consultation is required when applying spindle contouring control for gear driven spindle.

Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Specifications

[] : Option

ITEM			L300C	L300LC
CAPACITY	Swing Over the Bed	mm(in)	Ø750 (29.5")	
	Swing Over the Carriage	mm(in)	Ø480 (18.9")	
	Max. Turning Dia.	mm(in)	Ø560 (22")	
	Max. Turning Length	mm(in)	720 (28.3")	1,320 (52")
	Bar Capacity	Main Sub	mm(in) mm(in)	Ø90 (3.5") [Big Bore : Ø102 (4")] -
SPINDLE	Chuck Size	Main Sub	inch inch	12" [15"] [Big Bore : 12", 15"] -
	Spindle Bore	Main Sub	mm(in) mm(in)	Ø102 (4") [Big Bore : Ø115 (4.5")] -
	Spindle Speed (rpm)	Main Sub	r/min r/min	3,000 [2,800] [3,300] -
	Motor (Max/Cont.)	Main Sub	kW(HP) kW(HP)	26/22 (35/30) [26/22 (35/30)] [26.4/22 (35.4/30)] -
	Torque (Max/Cont.)	Main Sub	N·m(lbf·ft) N·m(lbf·ft)	1,131/957(834.2/705.8) [1,325/1,121(977.3/826.8)] [1,137.1/947.6(838.7/698.9)] -
	Spindle Type	Main Sub	- -	BELT+2STEP GEAR -
	Spindle Nose	Main Sub	- -	A2-8 [A2-11] -
	C-axis Indexing		deg	-
	Travel (X/Z/ZB)	mm(in)	355/750(14"/29.5")	355/1,350(14"/53.1")
	Rapid Traverse Rate (X/Z/ZB)	m/min		20/24
FEED	Slide Type	-		BOX GUIDE
	No. of Tools	EA		12
	Tool Size	OD ID	mm(in) mm(in)	Ø25 (1") Ø50 (2")
LIVE TOOL	Indexing Time	sec/step		0.3
	Motor (Max/Cont.)	kW(HP)		-
	Milling Tool Speed (rpm)	r/min		-
	Torque (Max/Cont.)	N·m(lbf·ft)		-
	Collet Size	mm(in)		-
TAIL STOCK	Type	-		-
	Taper	-		MT5
	Quill Dia.	mm(in)		Ø100 (3.9")
	Quill Travel	mm(in)		120 (4.7")
TANK CAPACITY	Travel	mm(in)	750 (29.5")	1,350 (53.1")
	Coolant Tank	l (gal)	220 (58.1)	270 (71.3)
	Lubricating Tank	l (gal)		1.8 (0.5)
POWER SUPPLY	Electric Power Supply	kVA		30
	Thickness of Power Cable	Sq		Over 35
	Voltage	V/Hz		220/60 (200/50*)
MACHINE	Floor Space (L×W)	mm(in)	3,506×2,002 (138"×78.8")	4,170×2,002 (164.2"×78.8")
	Height	mm(in)		1,997 (78.6")
	Weight	kg(lb)	6,400 (14,110)	7,600 (16,755)
NC	Controller	-	HW FANUC i Series [FANUC 32i-B] [HYUNDAI-TROL]	

*) Using 50Hz voltage instead of 60Hz may lower the output of motors. (excluding servo motors and inverter motors)

Prior consultation is required when applying spindle contouring control for gear driven spindle.

Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Specifications

[] : Option

ITEM		L300MC	L300LMC	L300MSC
CAPACITY	Swing Over the Bed	mm(in)		Ø750 (29.5")
	Swing Over the Carriage	mm(in)		Ø480 (18.9")
	Max. Turning Dia.	mm(in)		Ø500 (19.7")
	Max. Turning Length	mm(in)	600 (23.6")	1,260 (49.6")
	Bar Capacity	Main	mm(in)	Ø90 (3.5") [Big Bore : Ø102 (4")]
		Sub	mm(in)	-
SPINDLE	Chuck Size	Main	inch	12" [15"] [Big Bore : 12", 15"]
		Sub	inch	-
	Spindle Bore	Main	mm(in)	Ø102 (4") [Big Bore : Ø115 (4.5")]
		Sub	mm(in)	-
	Spindle Speed (rpm)	Main	r/min	3,000 [Big Bore : 2,800] [3,500]
		Sub	r/min	-
	Motor (Max/Cont.)	Main	kW(HP)	22/18.5 (30/25) [Big Bore : 22/18.5 (30/25)] [33.6/28 (45.1/37.5)]
		Sub	kW(HP)	-
	Torque (Max/Cont.)	Main	N·m(lbf·ft)	787.3/465 (580.7/343) [Big Bore : 787.3/465 (580.7/343)] [481.1/400.9 (354.8/295.7)]
		Sub	N·m(lbf·ft)	-
	Spindle Type	Main	-	Belt
		Sub	-	-
	Spindle Nose	Main	-	A2-8 [A2-11]
		Sub	-	A2-6
FEED	C-axis Indexing	deg	0.001°	
	Travel (X/Z/ZB)	mm(in)	355/750 (14"/29.5")	355/1,350 (14"/53.1")
	Rapid Traverse Rate (X/Z/ZB)	m/min(ipm)	20/24 (787/945)	
	Slide Type	-	BOX GUIDE	
TURRET	No. of Tools	EA	12	
	Tool Size	OD	mm(in)	Ø 25 (1")
		ID	mm(in)	Ø50 (2")
	Indexing Time	sec/step	0.3	
LIVE TOOL	Motor (Max/Cont.)	kW(HP)	5.5/3.7 (7.4/4.7)	
	Milling Tool Speed (rpm)	r/min	4,000	
	Torque (Max/Cont.)	N·m(lbf·ft)	35/23.5 (25.8/17.3)	
	Collet Size	mm(in)	Ø20 (0.8") - ER32	
	Type	-	BMT65P	
TAIL STOCK	Taper	-	MT5	-
	Quill Dia.	mm(in)	Ø100 (3.9")	-
	Quill Travel	mm(in)	120 (4.72)	-
TANK CAPACITY	Travel	mm(in)	750 (29.5)	1,350 (53.1)
	Coolant Tank	l(gal)	220 (58.1)	270 (71.3)
	Lubricating Tank	l(gal)	1.8 (0.5)	
POWER SUPPLY	Electric Power Supply	kVA	30	38
	Thickness of Power Cable	Sq	Over 35	
	Voltage	V/Hz	220/60 (200/50*)	
MACHINE	Floor Space (L×W)	mm(in)	3,480×2,002 (137"×78.8")	4,170×2,002 (164.2"×78.8")
	Height	mm(in)	1,997 (78.6")	
	Weight	kg(lb)	6,600 (14,550)	7,800 (17,196)
NC	Controller	-	FANUC 32i-B [HW FANUC i Series] [HYUNDAI-iTROL]	FANUC 32i-B

*) Using 50Hz voltage instead of 60Hz may lower the output of motors. (excluding servo motors and inverter motors)

Prior consultation is required when applying spindle contouring control for gear driven spindle.

Specifications are subject to change without notice for improvement.

CONTROLLER

HYUNDAI WIA FANUC i Series (L300A/LA/MA/LMA/C/LC | L300MC/LMC)

[] : Option

Controlled axis / Display / Accuracy Compensation		Program input
Control axes	2 axes (X, Z) / 3 axes (X, Z, C) / X, Z, B) / 4 axes (X, Z, Y, C)	Multiple repetitive cycles I, II
	5 axes (X, Z, B, C, A) / 6 axes (X, Z, Y, B, C, A)	Canned cycle for turning
Simultaneously controlled axes		Auxiliary function / Spindle speed function
Designation of spindle axes	2 axes [Max. 4 axes]	Auxiliary function M 4 digit
Least setting Unit	X, Z, Y, B axes : 0.001 mm (0.0001 inch)	Level-up M Code High speed / Multi / Bypass M code
	C, A axes : 0.001 deg	Spindle speed function S 4 digit, Binary output
Least input increment	X, Z, Y, B axes : 0.001 mm (0.0001 inch)	Spindle override 0% ~ 150% (10% Unit)
Inch / Metric conversion	C, A axes : 0.001 deg	Multi position spindle orientation M19 (S_ _ _)
High response vector control	G20 / G21	Rigid tapping
Interlock	All axes / Each axis	Constant surface speed control G96, G97
Machine lock	All axes	Tool function / Tool compensation
Backlash compensation	± 0 ~ 9999 pulses (Rapid traverse / Cutting feed)	Tool function T 2 digit + Offset 2 digit
Position switch		Tool life management
LCD / MDI	10.4 inch color LCD	Tool offset pairs 128 pairs
Feedback	Absolute motor feedback	Tool nose radius compensation G40, G41, G42
Stored stroke check 1	Over travel	Geometry / Wear compensation
Stored stroke check 2, 3		Direct input of offset measured B
PMC axis control		Editing function
Operation		Part program storage size 1280m (512KB)
Automatic operation (Memory)		No. of registerable programs 1000 ea
MDI operation		Program protect
DNC operation	Needed DNC software / CF card	Background editing
Program restart		Extended part program editing Copy, move and change of NC program
Wrong operation prevention		Memory card program edit
Program check function	Dry run	Data input / Output & Interface
Single block		I/O interface RS 232C serial port, CF card, USB memory
Search function	Program Number / Sequence Number	Screen hard copy Embedded Ethernet interface
Interpolation functions		External message
Nano interpolation		External key input
Positioning	G00	External workpiece number search
Linear interpolation	G01	Automatic data backup
Circular interpolation	G02, G03	Setting, display and diagnosis
Exact stop mode	Single : G09, Continuous : G61	Self-diagnosis function
Dwell	G04, 0 ~ 9999.9999 sec	History display & Operation Alarm & Operator message & Operation
Skip	G31	Run hour / Parts count display
	1st reference : G28	Maintenance information
Reference position return	2nd reference : G30	Actual cutting feedrate display
	Ref. position check : G27	Display of spindle speed / T code
Thread synchronous cutting		Graphic display
Thread cutting retract		Operating monitor screen Spindle / Servo load etc.
Variable lead thread cutting		Power consumption monitoring Spindle & Servo
Multi / Continuous threading		Spindle / Servo setting screen
Feed function / Acc. & Dec. control		Multi language display Support 20 languages
	Rapid traverse	Display language switching Selection of 5 optional Languages
Manual feed	Jog : 0~2.000 mm/min (79 ipm)	LCD Screen Saver Screen saver
	Manual handle : x1, x10, x100 pulses	Unexpected disturbance torque BST (Back spin torque limit)
Cutting Feed command	Direct input F code	Function for machine type
Feedrate override	0 ~ 200% (10% Unit)	Cs contour control (C & A axes) Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Rapid traverse override	1%, F25%, 50%, 100%	Polar coordinate interpolation Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Override cancel		Cylindrical interpolation Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Feed per minute	G98	Canned cycle for drilling Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Feed per revolution	G99	Spindle orientation expansion MS, SY TTS, TTMS, TTSY
Look-ahead block	1 block	Spindle synchronous control MS, SY TTS, TTMS, TTSY
Program input		Torque control MS, SY TTS, TTMS, TTSY
Tape Code	EIA / ISO	Y axis offset Y, SY, TTSY
Optional block skip	1 ea	Arbitrary angular control Y, SY, TTSY
Absolute / Incremental program	G90 / G91	Composite / Superimposed control MS, SY TTS, TTMS, TTSY
Program stop / end	M00, M01 / M02, M30	Balance cutting MS, SY TTS, TTMS, TTSY
Maximum command unit	± 999,999.999 mm (± 99,999.999 inch)	Option
Plane selection	X-Y : G17 / Z-X : G18 / Y-Z : G19	Fast ethernet Needed option board
Workpiece coordinate system	G52, G53, 6 pairs (G54 ~ G59)	Data server Needed option board
Manual absolute	Fixed ON	Protection of data at 8 levels
Programmable data input	G10	Tool offset pairs 200 pairs
Sub program call	10 folds nested	Part program storage size 5120m (2MB)
Custom macro	#100 ~ #199, #500 ~ #999	Polygon turning (2 Spindles) Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
G code system	A	Helical interpolation
Programmable mirror image	G51.1, G50.1	Manual Guide i Conversational auto program
G code preventing buffering	G4.1	Dynamic graphic display
Direct drawing dimension program	Including Chamfering / Corner R	

Figures in inch are converted from metric values.

The FANUC controller specifications are subject to change based on the policy of company CNC supplying.

CONTROLLER

FANUC 32i-B (L300MA/LMA/MSA/LMSA | L300C/LC/MC/LMC/MSC)

[] : Option

Controlled axis / Display / Accuracy Compensation		Program input
Control axes	2 axes (X, Z) / 3 axes (X, Z, C) / 4 axes (X, Y, C)	Canned cycle for turning
	5 axes (X, Z, B, C, A) / 6 axes (X, Z, Y, B, C, A)	Manual Guide i
Simultaneously controlled axes	2 axes [Max. 4 axes]	Conversational auto program
Designation of spindle axes	4 axes (1 path), 6 axes (2 path Total)	Auxiliary function
	X, Z, Y, B axes : 0.001 mm (0.0001 inch)	Level-up M Code
Least setting Unit	C, A axes : 0.001 deg	Spindle speed function
	X, Z, Y, B axes : 0.001 mm (0.0001 inch)	Spindle override
Least input increment	C, A axes : 0.001 deg	Multi position spindle orientation
Inch / Metric conversion	G20 / G21	Rigid tapping
High response vector control		Constant surface speed control
Interlock	All axes / Each axis	Tool function
Machine lock	All axes	Tool life management
Backlash compensation	± 0 ~ 9999 pulses (Rapid traverse / Cutting feed)	Tool offset pairs
Position switch		Tool nose radius compensation
LCD / MDI	10.4 inch color LCD	Geometry / Wear compensation
Feedback	Absolute motor feedback	Direct input of offset measured B
Stored stroke check 1	Over travel	Editing function
Stored stroke check 2, 3		Part program storage size
PMC axis control		No. of registerable programs
Operation		Program protect
Automatic operation (Memory)		Background editing
MDI operation		Extended part program editing
DNC operation	Needed DNC software / CF card	Memory card program edit
Program restart		Data input / output & Interface
Wrong operation prevention		I/O interface
Program check function	Dry run, Program check	Screen hard copy
Single block		External message
Search function	Program Number / Sequence Number	External key input
Interpolation functions		External workpiece number search
Nano interpolation		Automatic data backup
Positioning	G00	Setting, display and diagnosis
Linear interpolation	G01	Self-diagnosis function
Circular interpolation	G02, G03	History display & Operation
Exact stop mode	Single : G09, Continuous : G61	Run hour / Parts count display
Dwell	G04, 0 ~ 9999.9999 sec	Maintenance information
Skip	G31	Actual cutting feedrate display
	1st reference : G28	Display of spindle speed / T code
Reference position return	2nd reference : G30	Graphic display
	Ref. position check : G27	Operating monitor screen
Thread synchronous cutting		Spindle / Servo load etc.
Thread cutting retract		Power consumption monitoring
Variable lead thread cutting		Spindle / Servo setting screen
Multi / Continuous threading		Multi language display
Feed function / Acc. & Dec. control		Display language switching
	Rapid traverse	LCD Screen Saver
Manual feed	Jog : 0~2,000 mm/min (79 ipm)	Screen saver
	Manual handle : x1, x10, x100 pulses	Unexpected disturbance torque
	Reference position return	Function for machine type
Cutting Feed command	Direct input F code	Cs contour control (C & A axes)
Feedrate override	0 ~ 200% (10% Unit)	Polar coordinate interpolation
Rapid traverse override	F1%, F25%, 50%, F100%	Cylindrical interpolation
Override cancel		Canned cycle for drilling
Feed per minute	G98	Spindle orientation expansion
Feed per revolution	G99	Spindle synchronous control
Look-ahead block	1 block	Torque control
Program input		Y axis offset
Tape Code	EIA / ISO	Arbitrary angular control
Optional block skip	1 ea	Composite / Superimposed control
Absolute / Incremental program	G90 / G91	Balance cutting
Program stop / end	M00, M01 / M02, M30	
Maximum command unit	± 999,999.999 mm (± 99,999.9999 inch)	Option
Plane selection	X-Y : G17 / Z-X : G18 / Y-Z : G19	Additional optional block skip
Workpiece coordinate system	G52, G53, 6 pairs (G54 ~ G59)	9 ea
Manual absolute	Fixed ON	Fast ethernet
Programmable data input	G10	Needed option board
Sub program call	10 folds nested	Data server
Custom macro	#100 ~ #149, #500 ~ #549	Protection of data at 8 levels
G code system	A	Tool offset pairs
Programmable mirror image	G51.1, G50.1	Part program storage size
G code preventing buffering	G4.1	Polygon turning (2 Spindles)
Multiple repetitive cycles I, II		Helical interpolation
		Dynamic graphic display
		Direct drawing dimension program

Figures in inch are converted from metric values.

The FANUC controller specifications are subject to change based on the policy of company CNC supplying.

CONTROLLER

HYUNDAI-iTROL (L300A/LA/C/LC/MC/LMC)

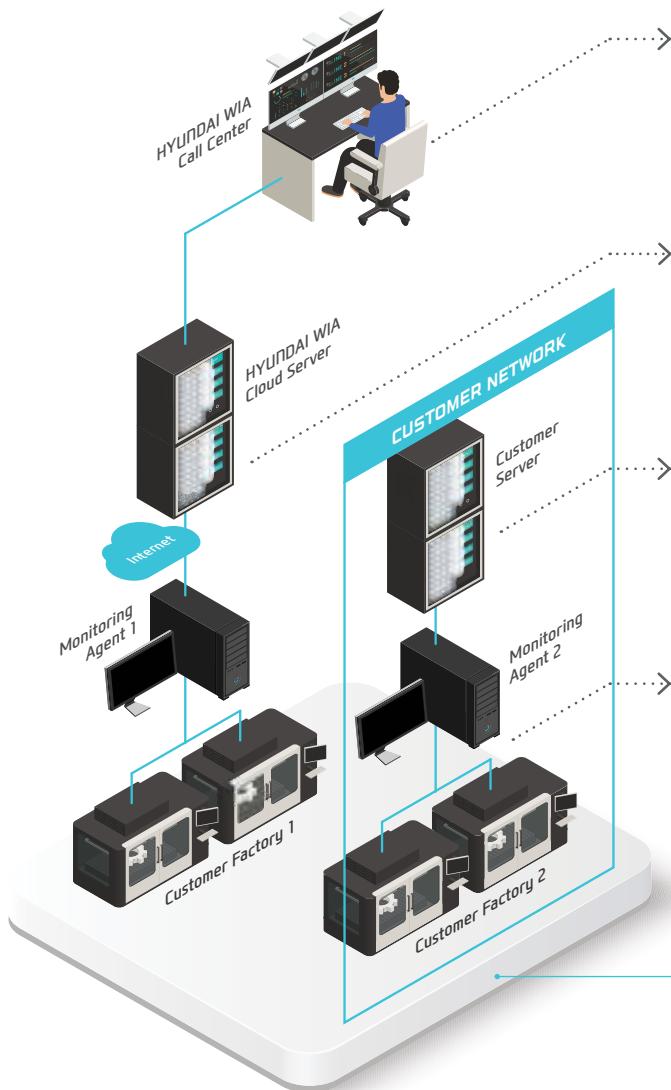
Control & Composition		Compensation
Number of axis/Spindles	2 axes (X, Z) / 3 axes (X, Z, C)	Backlash compensation
Number of axis/Spindles, max.	8 axes (Axis + Spindle)	Leadscrew error compensation
Color display	TFT 10.4" Color (800 x 600)	Measuring system error compensation
Keyboard	QWERTY Full Keyboard	Feedforward control (Speed control)
Part program storage	1MB, 3MB, 5MB	Safety Function
Addition of part program on CF card		Safe torque off (STO) Safe brake control (SBC) Safe stop 1 (SS1)
Transfer Function		Diagnostic Function
Feedrate override	0% ~ 200%	Alarm/Message , Alarm log
Transfer value input range	± 999999999	PLC status/LAD online display
Unlimited rotation of rotation axis		PLC remote connection (Ethernet)
Acc./Dec. with jerk limitation		Automation Support Function
Measuring systems 1 and 2, selectable		Actual velocity display
Travel to fixed stop		Tool life management As time / As amount
Auto servo drive tuning		Work counter/Cycle time Embedded
Spindle Function		2D simulation
Spindle override	0% ~ 150%	Manual Operation
Spindle speed, max. programmable value range	1000000 ~ 0.0001	Manual handle/Jog transfer
Automatic gear stage selection		Manual measurement of workpiece / tool offset
Spindle orientation		Automatic tool/Workpiece measurement
Spindle speed limitation		Automatic/Program reference approach
Rigid tapping		Automatic Operation
Spindle control with PLC		Program run as using CF card/USB
Interpolation		Program control/modification
Linear interpolation axis, max.	4 axis	Block search
Circle via center point and end point		Reposition
Circle via interpolation point		Preset (Set actual value)
Helical interpolation		Data Transmission
Non-uniform rational B splines		Ethernet network
Continuous - path mode with programmable rounding clearance		USB memory stick & CF card
Program Function		Convenience Function
Subroutine levels, max.	7	Processing setting Coordinate system setting, Auto tool length measurement
Interrupt routines, max.	2	Processing support Tool Monitoring, Spindle overload monitoring
Number of levels for skip blocks	2	Maintenance Turret Guidance, I/O monitoring, Manual
Polar Coordinates		Management Soft MCP, M/G code List
Dimensions inch/metric, changeover manually or via program		SMART machining
Dynamic preprocessing memory FIFO		Energy saving function (ECO)
Look ahead	1	Machine Monitoring System (MMS Lite)
Absolute/Incremental command	G90 / G91	Language
Scaling/Rotation		Standard support language Chinese Simplified, English, Korean
Read/Write system variables		Option
Block search		Maximum skip block number 10
Edit background		DRF offset
Processing program number, max.	750	MDI program save/load
Using of CF Card, USB		Teach-In mode
Basic coordinate number, max.	1	3D simulation Except for working area/Collision check
Work coordinate number, max.	100	Real time simulation
Basic/Work coordinate programming change		Shop Turn Conversational Program
Scratching function		Spline interpolation
Global and Local user data (GUD/LUD)		Program remote control in network
Global program user data		Language Chinese Traditional, French, German, Italian, Portuguese, Spanish
Conversational Cycle Program		
Tool Function		
Tool radius compensations		
Tool offset selection via T/D numbers		
Tools / Cutting edges in tool list	128 / 256, 256 / 512	
Monitoring Function		
Working area limit		
Software and Hardware limit		
Zero-speed/Clamping monitoring		
2D/3D protection zones		
Contour monitoring		

HW-MMS

HYUNDAI WIA Machine Monitoring System

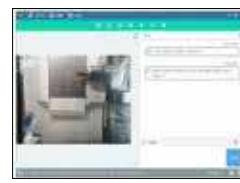


A brand new manufacturing machine by Hyundai Wia, HW-MMS is a unique software capable of monitoring the operation status of manufacturing machines in factories, a smart solution to improve manufacturing conditions of customers.



HW-MMS Remote

Hyundai Wia Call Center's remote diagnosis service provides a HMI/video diagnostic function.



HW-MMS Cloud

A cloud server-based equipment monitoring system for collecting and analyzing facility operation data.



HW-MMS Edge

A client server-based tool monitoring system for collection/analysis of facility operation data. (Compatible with client MES / ERP interface)



HW-MMS PT

This is a facility big data-based smart factory solution that collects and analyzes changes in spindle/feed data and NC processing files



HYUNDAI WIA
Smart Factory Solution



EXPERIENCE THE NEW TECHNOLOGY

With its top-quality HYUNDAI WIA machine tool creates a new and better world.

You Tube HYUNDAI WIA MT
www.youtube.com/HYUNDAIWIAWT



<http://machine.hyundai-wia.com>
HYUNDAI WIA Machine Tools
Global Links

HEADQUARTER

Changwon Technical Center/R&D Center/Factory 153, Jeongdong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Korea TEL : +82 55 280 9114 FAX : +82 55 282 9114

Overseas Sales Team /R&D Center 37, Cheoldobangmulgwan-ro,Uiwang-si, Gyeonggi-do, Korea TEL : +82 31 8090 2539

OVERSEAS OFFICES

HYUNDAI WIA Machine America corp. 450 Commerce Blvd, Carlstadt, NJ 07072, USA TEL : +1-201-987-7298

HYUNDAI WIA Europe GmbH Alexander-Fleming-Ring 57, 65428 Rüsselsheim Germany TEL : +49-0-6142-9256-0

HYUNDAI WIA Machine Tools China 2-3F, Bldg6, No.1535 Hongmei Road, Xuhui District, Shanghai, China TEL : +86-21-6427-9885

India Branch Office #4/169, 1st Floor, LOTTE BLDG, Rajiv Gandhi Salai, (OMR), Kandanchavadi, Chennai - 600096, Tamilnadu, India TEL : +91-76-0490-3348

Vietnam Branch Office Flat number 05, Service and Trade Center of Viet Huong Industrial Zone, Highway 13, Thuan Giao, Thuan An, Binh Duong, Vietnam TEL : +84-3-5399-5099