

600/700/800 Series

L600 Series | L700 Series | L800 Series | L800D Series

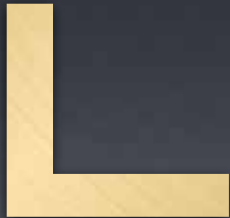
HYUNDAI WIA Heavy Duty CNC Turning Center

Technical Leader

The CNC Turning Center L600,700,800 Series designed by Hyundai WIA with years of expertise and the latest technology, is a Turning Center that maximizes productivity and performance.

ITEM	Chuck					Bed		Turret	
	18"	21"	24"	32"	34"	Standard	Long	Std. Turret	Mill Turret
L600A	○	○				●		●	
L600LA	○	○					●	●	
L600MA	○	○				●			●
L600LMA	○	○					●		●
L700A			○			●		●	
L700LA			○				●	●	
L700MA			○			●			●
L700LMA			○				●		●
L800A				○		●		●	
L800LA				○			●	●	
L800MA				○		●			●
L800LMA				○			●		●
L800D				○	○	●		●	
L800LD				○	○		●	●	
L800MD				○	○	●			●
L800LMD				○	○		●		●

●: Standard ○: Option



600/700/800 Series

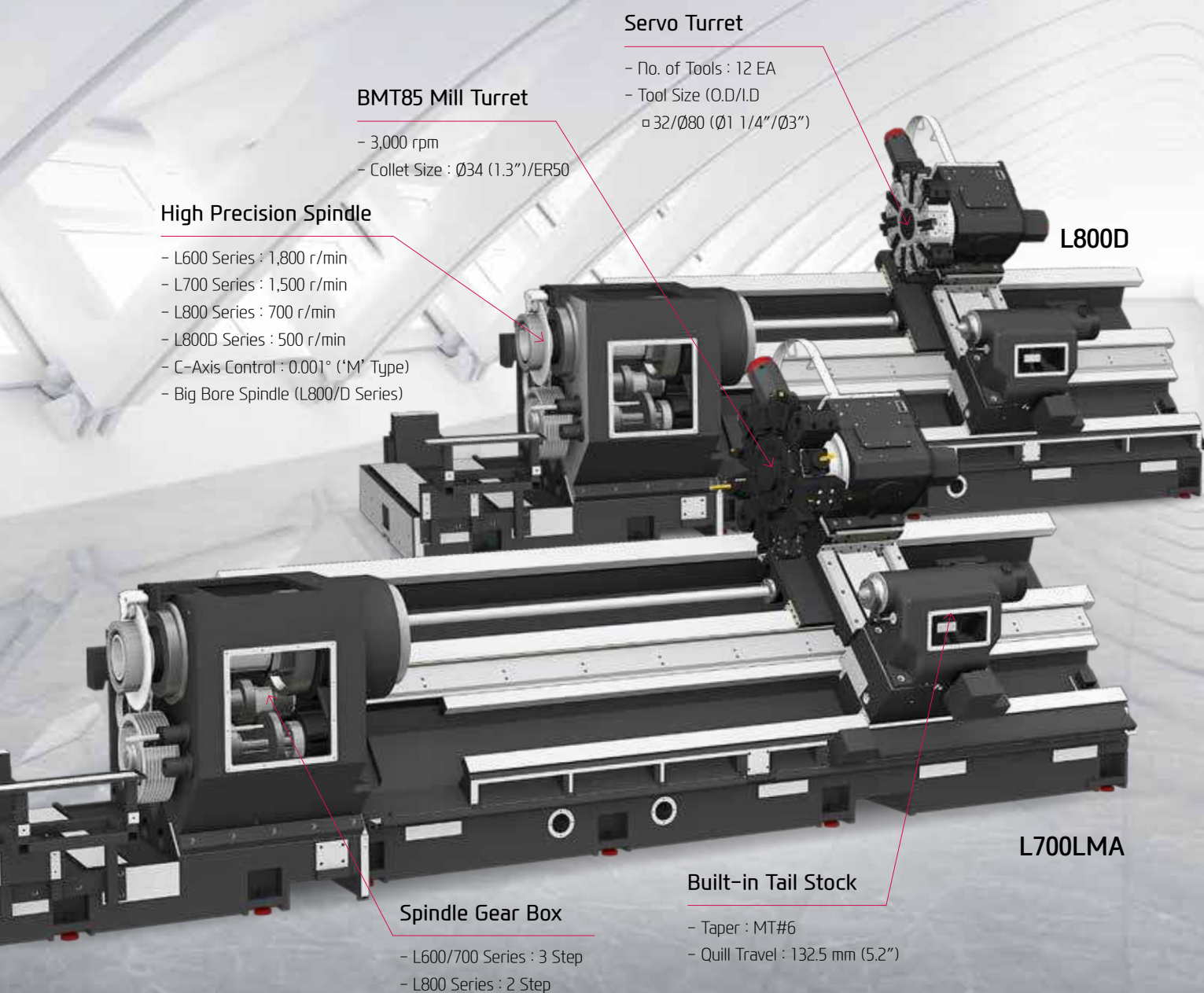
Heavy-Duty Cutting, Large Work Capacity, CNC Turning Center

- Sturdiness secured through box guideways on all axes
- One piece structure for high accuracy and rigidity
- Pretensioned double anchored method provides high precision
- Gear box type main spindle (L600/700 Series : 3 step / L800 Series : 2 step)
- Big Bore Spindle with a maximum spindle bore of $\varnothing 375$ ($\varnothing 14.8"$) (L800D Series)
- Structure designed for machining long shafts and pipes with maximum turning length of 3,250mm (128") (Long Bed Type)



01 BASIC STRUCTURE

High Rigid Bed & Structure for Heavy Duty Cutting CNC Turning Center



BMT85 Mill Turret

- 3,000 rpm
- Collet Size : $\varnothing 34$ (1.3")/ER50

High Precision Spindle

- L600 Series : 1,800 r/min
- L700 Series : 1,500 r/min
- L800 Series : 700 r/min
- L800D Series : 500 r/min
- C-Axis Control : 0.001° ('M' Type)
- Big Bore Spindle (L800/D Series)

Servo Turret

- No. of Tools : 12 EA
- Tool Size (O.D/I.D)
□ 32/ $\varnothing 80$ ($\varnothing 1 \frac{1}{4}$ "/ $\varnothing 3$ ")

L800D

L700LMA

Spindle Gear Box

- L600/700 Series : 3 Step
- L800 Series : 2 Step

Built-in Tail Stock

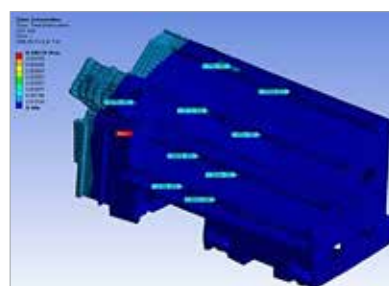
- Taper : MT#6
- Quill Travel : 132.5 mm (5.2")

POWERFUL CUTTING CAPABILITY & WIDE CUTTING AREA

ALL-IN-ONE TYPE OF BED

High Precision & Rigidity, One-Piece Structure

The L600/700/800 series features a 45° slant bed design which is developed through finite element analysis (FEA) to effectively absorb vibration and minimize heat generation. The structure ensures stability which enables powerful and precise cutting.



Floor Space (L×W)

Standard Bed

7,077×3,075 mm (278.6"×121.1")

Long Type Bed

8,715×3,075 mm (343.1"×121.1")

GUIDEWAY

Box Guideway

The L600/700/800 Series, specialized in machining large products, features box guideways in all axes and gear driven main spindle. The series demonstrates unsurpassed performance in heavy duty cutting.

Ball Screw

Travel is stabilized by fixing both ends of the ball screw with double anchored method. In particular, a large diameter ball screw with proper preload reinforces sturdiness and resistance to thermal displacement.



Travel (X/Z)

Standard Bed

500/1,680 mm (19.7"/66.1")

Long Type Bed

500/3,280 mm (19.7"/129.1")

02 HIGH PRECISION SPINDLE

Long Lasting, High Accuracy & Excellent Performance CNC Turning Center

Spindle Specifications

MODEL	Spindle Speed	Motor (Max./Cont.)	Torque (Max./Cont.)	Driving Method
L600 Series	1,800 rpm	45/37 kW (60/50 HP)	5,610/4,621 N·m (4,137.7/3,408.3 lbft·ft)	Belt + 3 Step Gear
L700 Series	1,500 rpm	45/37 kW (60/50 HP)	6,928/5,700 N·m (5,109.8/4,204.1 lbft·ft)	
L800 Series	700 rpm	45/37 kW (60/50 HP)	7,045/5,795 N·m (5,196.1/4,274.2 lbft·ft)	Belt + 2 Step Gear
L800D Series	500 rpm	45/37 kW (60/50 HP)	7,288/5,992 N·m (5,375.4/4,419.5 lbft·ft)	

HEAVY DUTY CUTTING & HIGH ACCURACY

MAIN SPINDLE

Spindle Ideal for Heavy Cutting

To accomplish advanced stability during heavy duty cutting, a combination of P4 double cylindrical roller bearings and angular bearings are adopted. The double locking device separates the spindle bearing and pulley to prevent a decrease in spindle bearing pretension during interrupted cutting, heavy duty cutting, chuck cylinder operations, and by belt pulley tension.

Spindle Gear Box

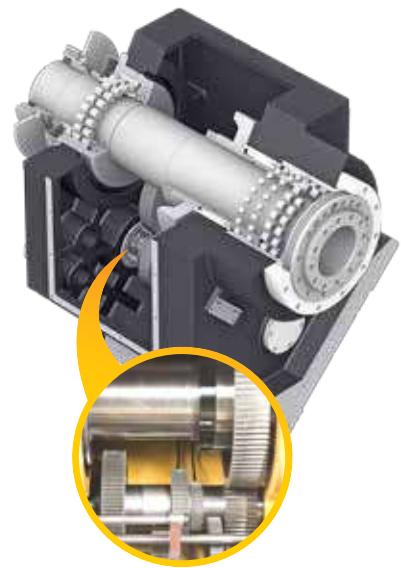
Gear shift of spindle provide stability and high torque during low speed.

L600/700 Series

3 Step Gear

L800 Series

2 Step Gear



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.

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

L600/700/800 Series
CNC Turning Center

06
+
07

EXPERIENCE
THE NEW TECHNOLOGY

BIG BORE SPINDLE (L800/D Series)

Max. Spindle Bore L800LMA : $\varnothing 320$ ($\varnothing 12.6''$), L800D : $\varnothing 375$ ($\varnothing 14.8''$) show excellent performance in machining large cylindrical parts for oil and gas industry.

Air Chucking System **OPTION**

A dual chuck design – one on each end of the spindle – offers superior support of the workpiece such as long shafts or pipe.



03 SERVO TURRET

High speed, High Accuracy, Highly Reliable Servo Turret

Servo Turret

No. of Tools

12_{EA}

Tool Size (O.D/i.D)

□ 32/Ø80 mm (Ø1 1/4"/Ø3")

Indexing Time

0.4_{sec}

Mill Turret

ITEM	Speed	Motor (Max./Cont)	Torque (Max./Cont)	Collet Size
BMT85	3,000 rpm (FANUC)	11/7.5 kW (15/10HP)	140/95.4 N·m (103.3/70.4 lbf·ft)	ER50 / Ø34 (1.3")

VARIOUS DRIVEN PRECISION BMT TOOL HOLDERS

SERVO TURRET



Standard Turret

The L600/700/800 Series apply an AC Servo Motor to enhance machining reliability. Also, split accuracy is improved by using 3-piece couplings. Powerful hydraulic tool clamping system minimizes tool tip displacement caused by workload.

20 bar 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.

BMT85 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.

STRAIGHT MILLING HEAD

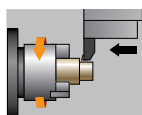


ANGULAR MILLING HEAD



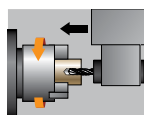
Mill Tool Holder

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



Heavy-duty cutting (O.D)
(Material : S45C)

Spindle rpm	96 r/min
Cutting speed	150 m/min
Cutting depth	12 mm
Forwarding	0.65 mm/rev
Chip discharge	1,170 cc/min



U-Drilling
(Material : S45C)

Tool diameter	Ø180
Cutting speed	130 m/min
Cutting depth	50 mm
Forwarding	0.14 mm/rev
Chip discharge	814 cc/min

❖ The above result might be different by types of processing circumstance.

04 USER CONVENIENCE

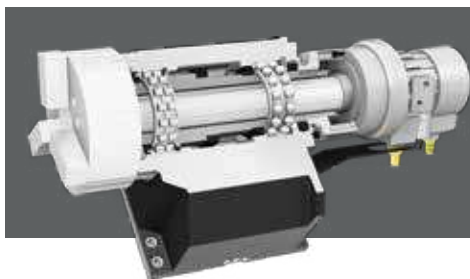
Various Devices for User Friendly

TAIL STOCK

Built-In Tail Stock

The built-in tail stock ensures high accuracy even during heavy duty cutting and can be controlled automatically or manually.

Taper	Quill Dia.	Quill Travel
MT#6	Ø160 mm (6.3")	132.5 mm (5.2")



Chuck Type Tail Stock **OPTION**

When machining material like pipe stable product-machining is possible with the use of chuck type tail stock.

Chuck Size : 12"	Sp. Speed : 3,000 rpm	Quill Dia. : Ø95 mm (Ø3.7 ")
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MACHINING SUPPORT 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.



Steady Rest **OPTION**

For long parts, such as shafts, the steady rest increases rigidity and minimizes vibration. (Manual/Programmable hydraulic steady rest)



Rear Chuck **OPTION**

The rear chuck option enables long products such as long shaft or pipes to be processed in a stable condition.

※ (L800/D Series : Manual Q-Setter)

Optional

CHIP DISPOSAL SOLUTION

Chip Conveyor

Timely and effective disposal of chips will enhance productivity as well as the working environment.



Hinge	Chip Type : Roughing Chip, Long Chip, Chip complex	Material : SS41, 45C, Cast Steel	Front Right Direction
	Highly efficient when disposing a lot of chips. Capable of handling stringy chips..		
Scraper	Chip Type : Finely broken chip blown out	Material : cast Iron, Nonferrous	
	Convenient for shortly cut chips.		
❖ Screw	Chip Type : The lower portion of micro-chips	Material : Steel, Casting	
	Compresses and ejects chips to reduce chip Trouble.		
❖ Drum Filter	Chip Type : Powder, Micro Chip	Material : AL	
	Advantageous in precision, as the chips do not flow in to the coolant nozzle.		

❖ When ordering a screw or drum filter chip conveyor, prior consult with hyundai wia's sales person.

COOLANT UNIT & ECO SYSTEM



Standard Coolant (Nozzle)



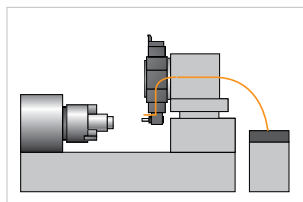
Chuck Coolant (Upper Chuck)



Chuck Air Blow (Upper Chuck)



Air Gun



MQL : Minimal Quantity Lubrication



Oil Skimmer



Mist Collector



Oil Lubrication Device

SPECIFICATIONS

Standard & Optional

Spindle		L600A(LA)	L600MA(LMA)
Main Spindle Hollow Chuck 3 Jaw	18"	○	○
	21"	○	○
	24"	-	-
Main Spindle Solid Chuck 3 Jaw	18"	-	-
	21"	-	-
	24"	-	-
Standard Soft Jaw (1set)		○	○
Chuck Clamp Foot Switch		●	●
2 Steps Hyd. Pressure Device		○	○
Spindle Inside Stopper		☆	☆
5" Index		☆	☆
Cs-Axis (0.001")		-	●
Chuck Open/Close Confirmation Device		○	○
2 Steps Chuck Foot Switch		○	○
Turret			
Tool Holder		●	●
Mill Turret	BMT	-	●
Straight Milling Head (Radial)	Adaptor Type	-	●
Angular Milling Head (Axial)	Adaptor Type	-	●
Boring Sleeve		●	●
Drill Socket		○	○
U-Drill Cap		●	●
Long Boring Bar I.D Holder		LA ☆	LMA ☆
Angle Head		-	☆
Tail Stock & Steady Rest			
Built-In Tail Stock		●	●
Programmable Tail Stock		●	●
Manual Type Steady Rest		☆	☆
Manual Type Hyd. Steady Rest	1Set	-	-
	2Sets	-	-
Programmable Hyd. Steady Rest	1Set	○	○
	2Sets	LA ○	LMA ○
Fixed center		●	●
2 Steps Tail Stock Pressure System		☆	☆
Quill Forward/Reverse Confirmation Device		○ (CE: ●)	○ (CE: ●)
Tail Stock Foot Switch (Standard when selecting the tailstock / Excluding the motor tailstock)		●	●
Coolant & Air Blow			
Standard Coolant (Nozzle)		●	●
Bed Flushing Coolant		●	●
Chuck Coolant (Upper Chuck)		○	○
Gun Coolant		○	○
Spindle Thru Coolant (Only for Special Chuck)		☆	☆
Thru Coolant for Live Tool		-	-
Chuck Air Blow (Upper Chuck)		○	○
Tail Stock Air Blow (Upper Tail Stock)		☆	☆
Turret Air Blow		☆	☆
Air Gun		○	○
Spindle Thru Air Blow (Only for Special Chuck)		☆	☆
High Pressure Coolant	6Bar (87psi)	●	●
	20Bar (290psi)	○	○
	70Bar (1,015psi)	○	○
Power Coolant System (For Automation)		☆	☆
Coolant Chiller		☆	☆
Chip Disposal			
Coolant Tank	570 ℓ (150.6 gal)	●	●
	770 ℓ (203.4 gal)	LA ●	LMA ●
Chip Conveyor (Hinge/Scraper)	Front (Right)	○	○
	Front (Rear)	-	-
Special Chip Conveyor (Drum Filter)		☆	☆
Chip Wagon	Standard (180 ℓ [47.5 gal])	○	○
	Swing (200 ℓ [52.8 gal])	○	○
	Large Swing (290 ℓ [76.6 gal])	○	○
	Large Size (330 ℓ [87.2 gal])	○	○
	Customized	☆	☆

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

Safety Device		L600A(LA)	L600MA(LMA)
Total Splash Guard		●	●
Chuck hydraulic pressure maintenance interlock		○ (CE: ●)	○ (CE: ●)
Electric Device			
Call Light	1Color : ●	●	●
Call Light & Buzzer	3Color : ● ■ ■ B	○	○
Electric Cabinet Light		○	○
Remote MPG		○	○
Work Counter	Digital	○	○
Total Counter	Digital	○	○
Tool Counter	Digital	○	○
Multi Tool Counter	Digital	○	○
Electric Circuit Breaker		○	○
AVR (Auto Voltage Regulator)		☆	☆
Transformer	70kVA	○	○
Auto Power Off		○	○
Measurement			
Q-Setter		-	-
Automatic Q-Setter		●	●
Work Close Confirmation Device (Only for Special Chuck)	TACO	☆	☆
	SMC	☆	☆
Work Setter		○	○
Linear Scale	X Axis	○	○
	Z Axis	○	○
Coolant Level Sensor (Only for Chip Conveyor)		☆	☆
Environment			
Air Conditioner		○	○
Oil Mist Collector		☆	☆
Oil Skimmer		○	○
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.	-	-
Turret Work Pusher (For Automation)		☆	☆
Hyd. Device			
Standard Hyd. Cylinder	Hollow	●	●
Standard Hyd. Unit	58bar(841.2psi) / 63 ℓ (16.6 gal)	●	●
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 Munsel 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

Standard & Optional

Spindle		L700A(LA)	L700MA(LMA)
Main Spindle	18"	-	-
Hollow Chuck 3 Jaw	21"	-	-
	24"	○	○
Main Spindle	18"	-	-
Solid Chuck 3 Jaw	21"	-	-
	24"	-	-
Standard Soft Jaw (1set)		○	○
Chuck Clamp Foot Switch		●	●
2 Steps Hyd. Pressure Device		○	○
Spindle Inside Stopper		☆	☆
5" Index		☆	☆
Cs-Axis (0.001")		-	●
Chuck Open/Close Confirmation Device		○	○
2 Steps Chuck Foot Switch		○	○
Turret			
Tool Holder		●	●
Mill Turret	BMT	-	●
Straight Milling Head (Radial)	Adaptor Type	-	●
Angular Milling Head (Axial)	Adaptor Type	-	●
Boring Sleeve		●	●
Drill Socket		○	○
U-Drill Cap		●	●
Long Boring Bar I.D Holder		LA ☆	LMA ☆
Angle Head		-	☆
Tail Stock & Steady Rest			
Built-In Tail Stock		●	●
Programmable Tail Stock		●	●
Manual Type Steady Rest		☆	☆
Manual Type	1Set	-	-
Hyd. Steady Rest	2Sets	-	-
Programmable	1Set	○	○
Hyd. Steady Rest	2Sets	LA ○	LMA ○
Fixed center		●	●
2 Steps Tail Stock Pressure System		☆	☆
Quill Forward/Reverse Confirmation Device		○(CE:●)	○(CE:●)
Tail Stock Foot Switch (Standard when selecting the tailstock / Excluding the motor tailstock)		●	●
Coolant & Air Blow			
Standard Coolant (Nozzle)		●	●
Bed Flushing Coolant		●	●
Chuck Coolant (Upper Chuck)		○	○
Gun Coolant		○	○
Spindle Thru Coolant (Only for Special Chuck)		☆	☆
Thru Coolant for Live Tool		-	-
Chuck Air Blow (Upper Chuck)		○	○
Tail Stock Air Blow (Upper Tail Stock)		☆	☆
Turret Air Blow		☆	☆
Air Gun		○	○
Spindle Thru Air Blow (Only for Special Chuck)		☆	☆
High Pressure Coolant	6Bar (87psi)	●	●
	20Bar (290psi)	○	○
	70Bar (1,015psi)	○	○
Power Coolant System (For Automation)		☆	☆
Coolant Chiller		☆	☆
Chip Disposal			
Coolant Tank	570 ℓ (150.6 gal)	●	●
	770 ℓ (203.4 gal)	LA ●	LMA ●
Chip Conveyor (Hinge/Scraper)	Front (Right)	○	○
	Front (Rear)	-	-
Special Chip Conveyor (Drum Filter)		☆	☆
Chip Wagon	Standard (180 ℓ [47.5 gal])	○	○
	Swing (200 ℓ [52.8 gal])	○	○
	Large Swing (290 ℓ [76.6 gal])	○	○
	Large Size (330 ℓ [87.2 gal])	○	○
	Customized	☆	☆

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

Safety Device		L700A(LA)	L700MA(LMA)
Total Splash Guard		●	●
Chuck hydraulic pressure maintenance interlock		○(CE:●)	○(CE:●)
Electric Device			
Call Light	1Color : ■	●	●
Call Light & Buzzer	3Color : ■ ■ ■ B	○	○
Electric Cabinet Light		○	○
Remote MPG		○	○
Work Counter	Digital	○	○
Total Counter	Digital	○	○
Tool Counter	Digital	○	○
Multi Tool Counter	Digital	○	○
Electric Circuit Breaker		○	○
AVR (Auto Voltage Regulator)		☆	☆
Transformer	70kVA	○	○
Auto Power Off		○	○
Measurement			
Q-Setter		-	-
Automatic Q-Setter		●	●
Work Close Confirmation Device	TACO	☆	☆
(Only for Special Chuck)	SMC	☆	☆
Work Setter		○	○
Linear Scale	X Axis	○	○
	Z Axis	○	○
Coolant Level Sensor (Only for Chip Conveyor)		☆	☆
Environment			
Air Conditioner		○	○
Oil Mist Collector		☆	☆
Oil Skimmer		○	○
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	-	-
Turret Work Pusher (For Automation)		☆	☆
Hyd. Device			
Standard Hyd. Cylinder	Hollow	●	●
Standard Hyd. Unit	58bar(841.2psi) / 63 ℓ (16.6 gal)	●	●
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

Standard & Optional

Spindle		L800A(LA)	L800MA(LMA)
Main Spindle Hollow Chuck 3 Jaw	18"	-	-
	21"	-	-
	24"	-	-
Main Spindle Solid Chuck 3 Jaw	32"	○	○
	18"	-	-
	21"	-	-
Big Bore Air Chuck Standard Soft Jaw (1set)	24"	-	-
	32"	○	○
	27"	○	○
Chuck Clamp Foot Switch		●	●
2 Steps Hyd. Pressure Device		○	○
Spindle Inside Stopper		☆	☆
5" Index		☆	☆
Cs-Axis (0.001")		-	●
Chuck Open/Close Confirmation Device		○	○
2 Steps Chuck Foot Switch		○	○
Turret			
Tool Holder		●	●
Mill Turret	BMT	-	●
	Adaptor Type	-	●
Straight Milling Head (Radial)	Adaptor Type	-	●
	Adaptor Type	-	●
Boring Sleeve		●	●
Drill Socket		○	○
U-Drill Cap		●	●
Long Boring Bar I.D Holder		LA ☆	LMA ☆
Angle Head		-	☆
Tail Stock & Steady Rest			
Built-In Tail Stock		●	●
Programmable Tail Stock		●	●
Manual Type Steady Rest		☆	☆
Manual Type Hyd. Steady Rest	1Set	-	-
	2Sets	-	-
Programmable Hyd. Steady Rest	1Set	○	○
	2Sets	LA ○	LMA ○
Fixed center		●	●
2 Steps Tail Stock Pressure System		☆	☆
Quill Forward/Reverse Confirmation Device		○ (CE:●)	○ (CE:●)
Tail Stock Foot Switch (Standard when selecting the tailstock / Excluding the motor tailstock)		●	●
Coolant & Air Blow			
Standard Coolant (Nozzle)		●	●
Bed Flushing Coolant		●	●
Chuck Coolant (Upper Chuck)		○	○
Gun Coolant		○	○
Spindle Thru Coolant (Only for Special Chuck)		☆	☆
Thru Coolant for Live Tool		-	-
Chuck Air Blow (Upper Chuck)		○	○
Tail Stock Air Blow (Upper Tail Stock)		☆	☆
Turret Air Blow		☆	☆
Air Gun		○	○
Spindle Thru Air Blow (Only for Special Chuck)		☆	☆
High Pressure Coolant	6Bar (87psi)	●	●
	20Bar (290psi)	○	○
	70Bar (1,015psi)	○	○
Power Coolant System (For Automation)		☆	☆
Coolant Chiller		☆	☆
Chip Disposal			
Coolant Tank	570 ℓ (150.6 gal)	●	●
	770 ℓ (203.4 gal)	LA ●	LMA ●
	Front (Right)	○	○
Chip Conveyor (Hinge/Scraper)	Front (Rear)	-	-
	Special Chip Conveyor (Drum Filter)	☆	☆
Chip Wagon	Standard (180 ℓ [47.5 gal])	○	○
	Swing (200 ℓ [52.8 gal])	○	○

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

Chip Disposal		L800A(LA)	L800MA(LMA)
Chip Wagon	Large Swing (290 ℓ [76.6 gal])	○	○
	Large Size (330 ℓ [87.2 gal])	○	○
	Customized	☆	☆
Safety Device			
Total Splash Guard		●	●
Chuck hydraulic pressure maintenance interlock		○ (CE:●)	○ (CE:●)
Electric Device			
Call Light	1Color : ■	●	●
	3Color : ■ ■ ■ B	○	○
Call Light & Buzzer		○	○
Electric Cabinet Light		○	○
Remote MPG		○	○
Work Counter	Digital	○	○
	Digital	○	○
Total Counter	Digital	○	○
	Digital	○	○
Tool Counter	Digital	○	○
	Digital	○	○
Multi Tool Counter		○	○
Electric Circuit Breaker		○	○
AVR (Auto Voltage Regulator)		☆	☆
Transformer	70kVA	○	○
	Auto Power Off	○	○
Measurement			
Q-Setter		○	○
Automatic Q-Setter		-	-
Work Close Confirmation Device (Only for Special Chuck)	TACO	☆	☆
	SMC	☆	☆
Work Setter		○	○
Linear Scale	X Axis	○	○
	Z Axis	○	○
Coolant Level Sensor (Only for Chip Conveyor)		☆	☆
Environment			
Air Conditioner		○	○
Oil Mist Collector		☆	☆
Oil Skimmer		○	○
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 (IIN & OUT)	16 Contact	○	○
	32 Contact	○	○
Parts Catcher		-	-
Turret Work Pusher (For Automation)		☆	☆
Hyd. Device			
Standard Hyd. Cylinder		○	○
Standard Hyd. Unit	Hollow	○	○
	58bar(841.2psi) / 63 ℓ (16.6 gal)	●	●
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 Munsel 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

Standard & Optional

Spindle		L800D(LD)	L800MD(LMD)
Main Spindle Hollow Chuck 3 Jaw	18"	-	-
	21"	-	-
	24"	-	-
	32"	-	-
Main Spindle Solid Chuck 3 Jaw	18"	-	-
	21"	-	-
	24"	-	-
	32"	-	-
Big Bore Air Chuck	34"	o	o
Big Bore Independent Chuck	32"	o	o
Standard Soft Jaw (1set)		o	o
Chuck Clamp Foot Switch		●	●
2 Steps Hyd. Pressure Device		o	o
Spindle Inside Stopper		☆	☆
Main Spindle 5° Index		☆	☆
C-Axis (0.001")		-	●
Chuck Open/Close Confirmation Device		o	o
2 Steps Chuck Foot Switch		o	o
Turret			
Tool Holder		●	●
Mill Turret	BMT	-	●
Straight Milling Head (Radial)	Collet Type	-	●
Angular Milling Head (Axial)	Collet Type	-	●
Boring Sleeve		●	●
Drill Socket		o	o
U-Drill Cap		●	●
Long Boring Bar I.D Holder		LD ☆	LMD ☆
Angle Head		-	☆
Tail Stock & Steady Rest			
Built-In Tail Stock		o	o
Programmable Tail Stock		o	o
Manual Type Steady Rest		☆	☆
Programmable Hyd. Steady Rest	1Set	o	o
	2Sets	LD o	LMD o
Fixed center		Selecting Tail Stock (●)	Selecting Tail Stock (●)
2 Steps Tail Stock Pressure System		Selecting Tail Stock (☆)	Selecting Tail Stock (☆)
Quill Forward/Reverse Confirmation Device		Selecting Tail Stock (●)	Selecting Tail Stock (●)
Tail Stock Foot Switch		Selecting Tail Stock (●)	Selecting Tail Stock (●)
Coolant & Air Blow			
Standard Coolant (Nozzle)		●	●
Bed Flushing Coolant		●	●
Chuck Coolant (Upper Chuck)		o	o
Gun Coolant		o	o
Spindle Thru Coolant (Only for Special Chuck)		☆	☆
Thru Coolant for Live Tool		-	-
Chuck Air Blow (Upper Chuck)		o	o
Tail Stock Air Blow (Upper Tail Stock)		☆	☆
Turret Air Blow		☆	☆
Air Gun		o	o
Spindle Thru Air Blow (Only for Special Chuck)		☆	☆
High Pressure Coolant	6Bar (87psi)	●	●
	20Bar (290psi)	o	o
	70Bar (1,015psi)	o	o
Power Coolant System (For Automation)		☆	☆
Coolant Chiller		☆	☆
Chip Disposal			
Coolant Tank	570 ℓ (150.6 gal)	●	●
	770 ℓ (203.4 gal)	LD ●	LMD ●
Chip Conveyor (Hinge/Scraper)	Front (Right)	o	o
	Front (Rear)	-	-
Special Chip Conveyor (Drum Filter)		☆	☆
Chip Wagon	Standard (180 ℓ [47.5 gal])	o	o
	Swing (200 ℓ [52.8 gal])	o	o

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

Chip Disposal		L800D(LD)	L800MD(LMD)
Chip Wagon	Large Swing (290 ℓ [76.6 gal])	o	o
	Large Size (330 ℓ [87.2 gal])	o	o
	Customized	☆	☆
Safety Device			
Total Splash Guard		●	●
Chuck hydraulic pressure maintenance interlock		o (CE:●)	o (CE:●)
Electric Device			
Call Light	1Color : ■	●	●
Call Light & Buzzer	3Color : ■ ■ ■ B	o	o
Electric Cabinet Light		o	o
Remote MPG		o	o
Work Counter	Digital	o	o
Total Counter	Digital	o	o
Tool Counter	Digital	o	o
Multi Tool Counter	Digital	o	o
Electric Circuit Breaker		o	o
AVR (Auto Voltage Regulator)		☆	☆
Transformer	70kVA	o	o
Auto Power Off		o	o
Measurement			
Q-Setter		o	o
Automatic Q-Setter		-	-
Work Close Confirmation Device (Only for Special Chuck)	TACO	☆	☆
	SMC	☆	☆
Work Setter		o	o
Linear Scale	X Axis	o	o
	Z Axis	o	o
Coolant Level Sensor (Only for Chip Conveyor)		☆	☆
Environment			
Air Conditioner		o	o
Oil Mist Collector		☆	☆
Oil Skinner		o	o
MQL (Minimal Quantity Lubrication)		☆	☆
Fixture & Automation			
Auto Door	Standard	o	o
	High Speed	☆	☆
Auto Shutter (Only for Automatic System)		-	-
Sub Operation Pannel		☆	☆
Bar Feeder Interface		-	-
Bar Feeder (FEDEK)		-	-
Extra M-Code 4ea		o	o
Automation Interface		☆	☆
I/O Extension (IN & OUT)	16 Contact	o	o
	32 Contact	o	o
Parts Catcher	Main SP.	-	-
Turret Work Pusher (For Automation)		☆	☆
Hyd. Device			
Standard Hyd. Cylinder	Hollow	-	-
Standard Hyd. Unit	58bar(841.2psi) / 63 ℓ (16.6 gal)	●	●
S/W			
Machine Guidance (HW-MCG)		●	●
Energy Saving System (HW-ESS)		●	●
Tool Monitoring (HW-TM)		o	o
Spindle Heat Distortion Compensation(HW-TDC)		o	o
DNC software (HW-eDNC)		o	o
Machine Monitoring System (HW-MMS)		o	o
Conversational program (HW-DPRO)		o	o
ETC			
Tool Box		●	●
Customized Color	Need Munsel No.	☆	☆
CAD & CAM		☆	☆

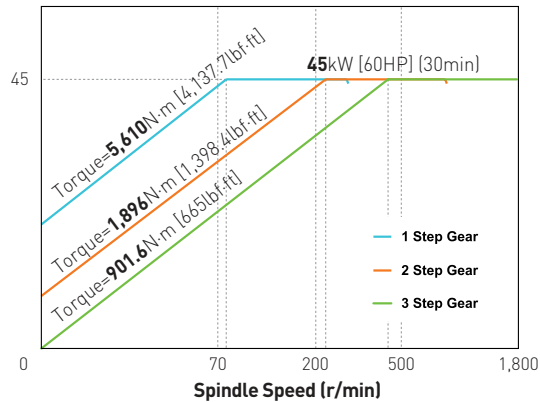
❖ 4 channel of TDC(Thermal Displacement Compensation) device is recommended, when more than 6 bar of high pressure coolant is applied, for the high quality machining.
Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Spindle Output/Torque Diagram

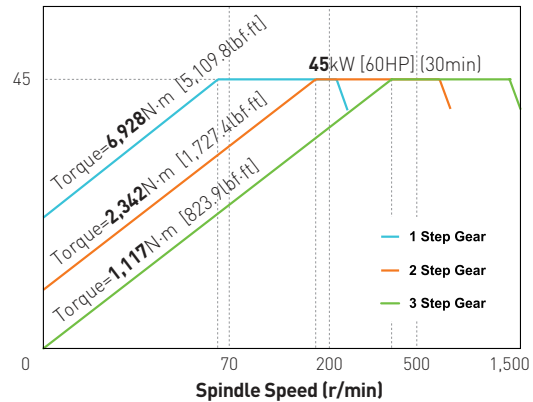
L600 Series 1,500 rpm

Power(kW [HP])



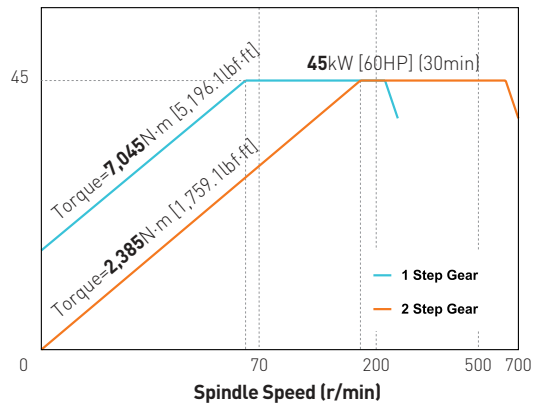
L700 Series 1,500 rpm

Power(kW [HP])



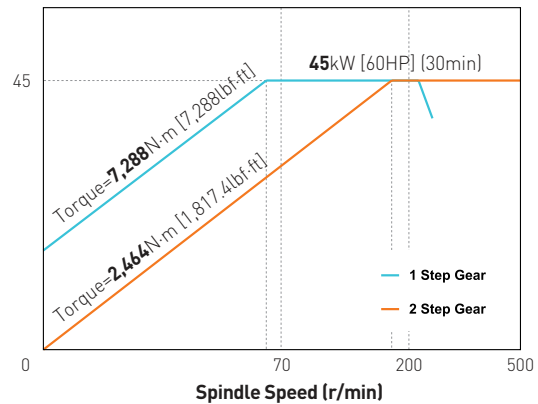
L800 Series 1,500 rpm

Power(kW [HP])



L800D Series 1,500 rpm

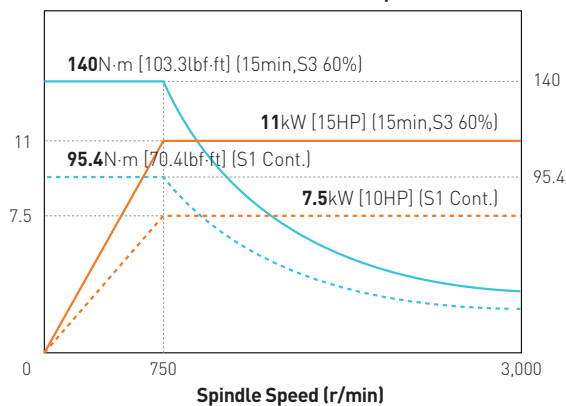
Power(kW [HP])



Mill Turret 3,000 rpm

Power(kW [HP])

Torque (N·m [lbf·ft])

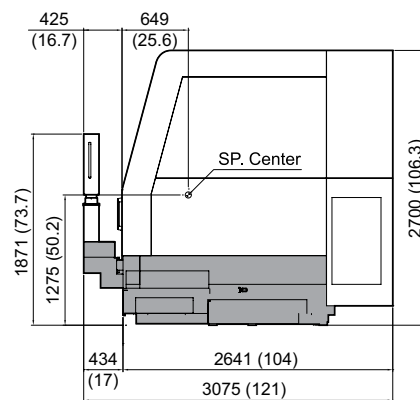
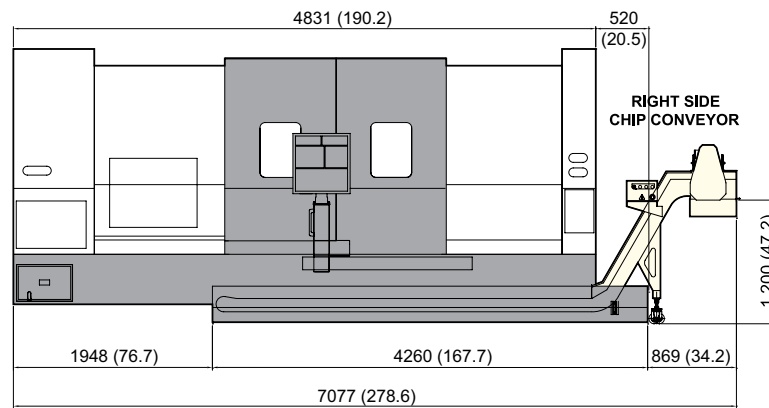
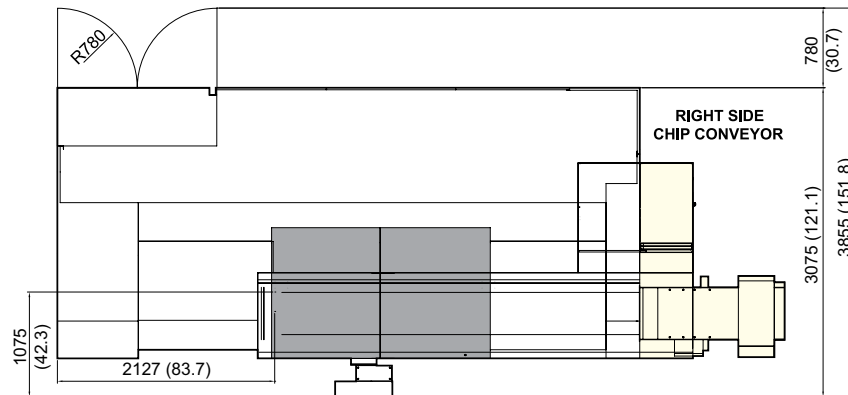


SPECIFICATIONS

External Dimensions

unit : mm(in)

L600A/600MA/700A/700MA/800A/800MA/800D/800MD

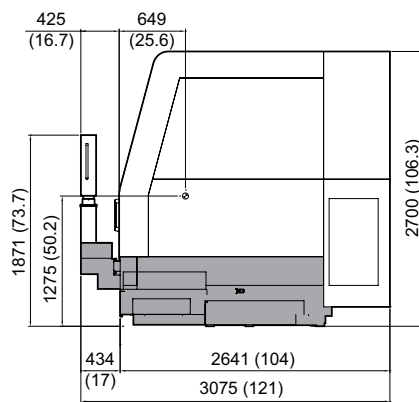
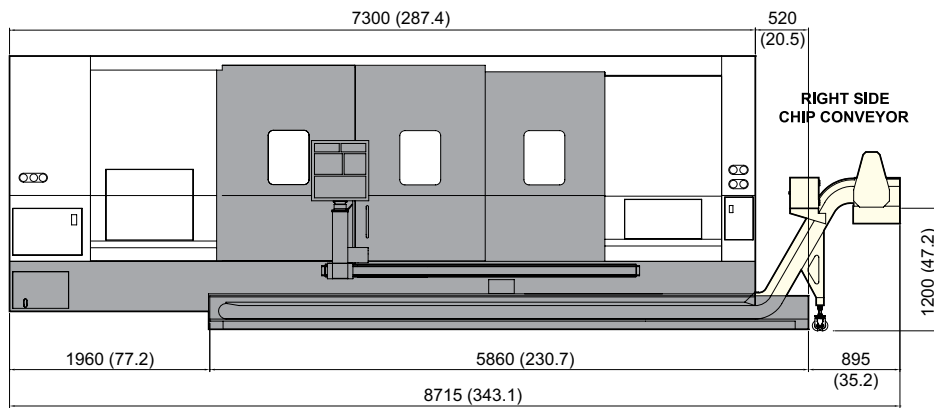
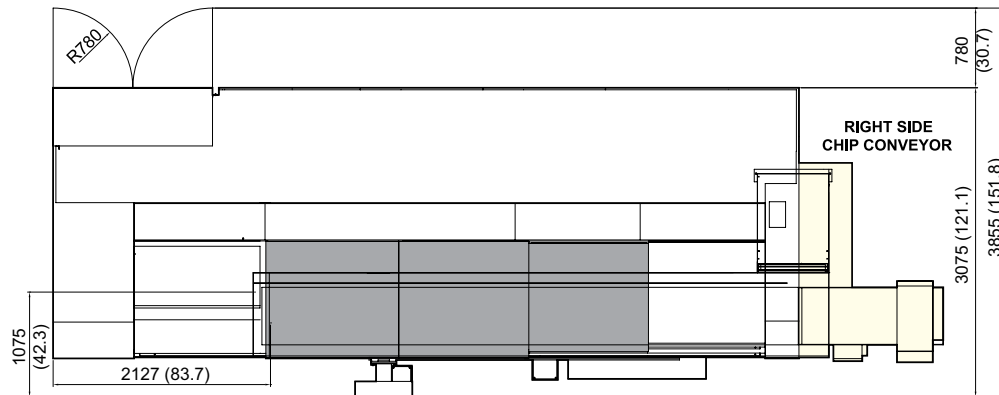


SPECIFICATIONS

External Dimensions

unit : mm(in)

L600LA/600LMA/700LA/700LMA/800LA/800LMA/800LD/800LMD

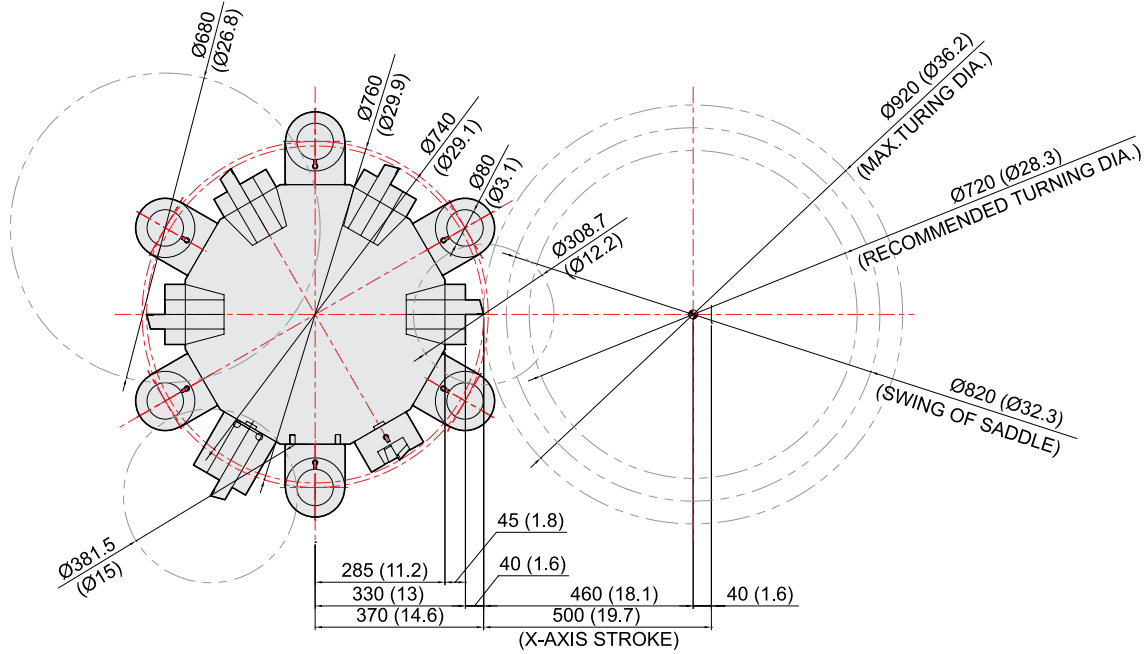


SPECIFICATIONS

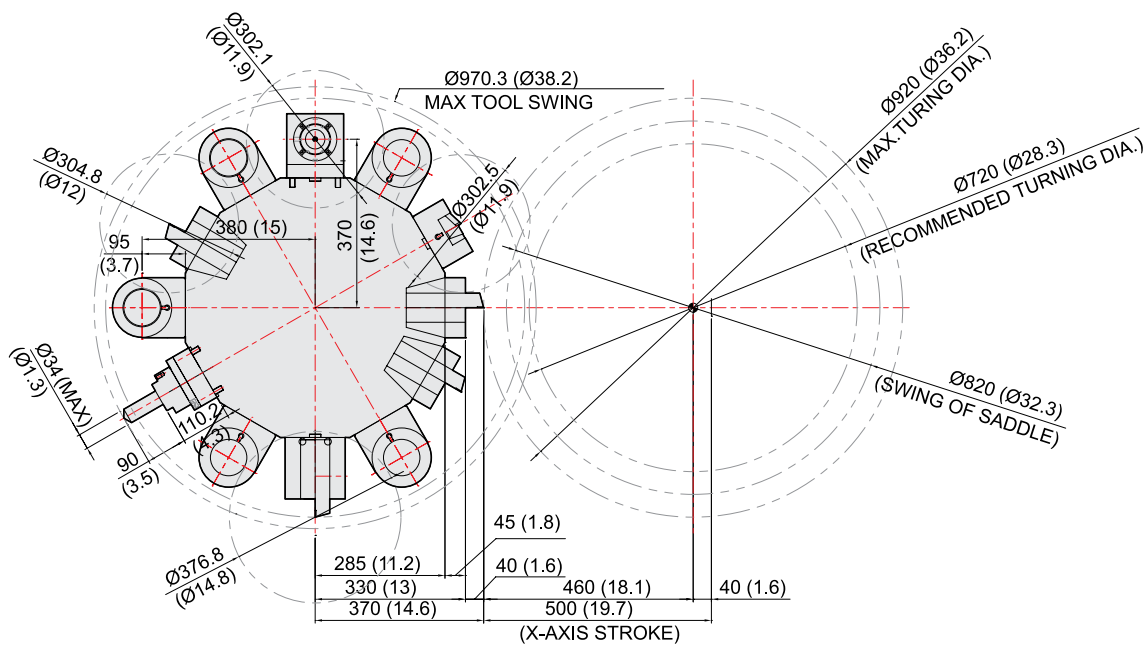
Interference

unit : mm(in)

L600A/600LA/700A/700LA/800A/800LA/800D/800LD



L600MA/600LMA/700MA/700LMA/800MA/800LMA

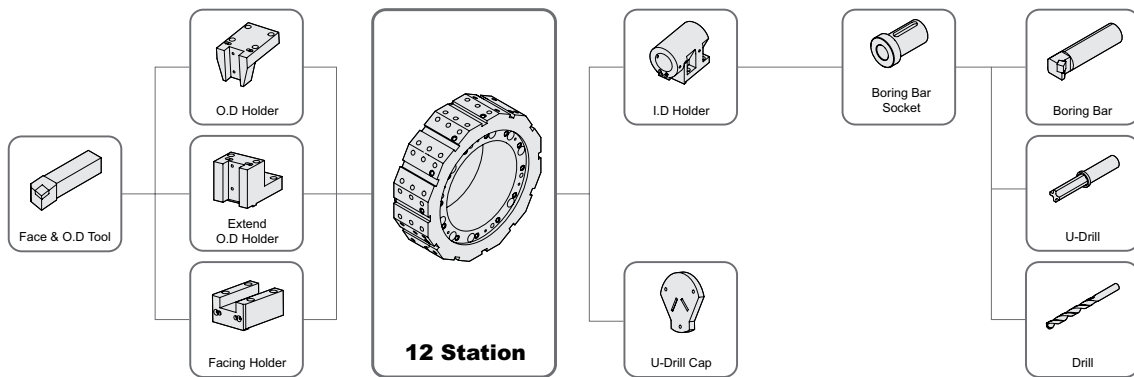


SPECIFICATIONS

Tooling System

unit : mm(in)

L600A/600LA/700A/700LA/800A/800LA/800D/800LD



L600/700/800 Series Tooling Parts Detail

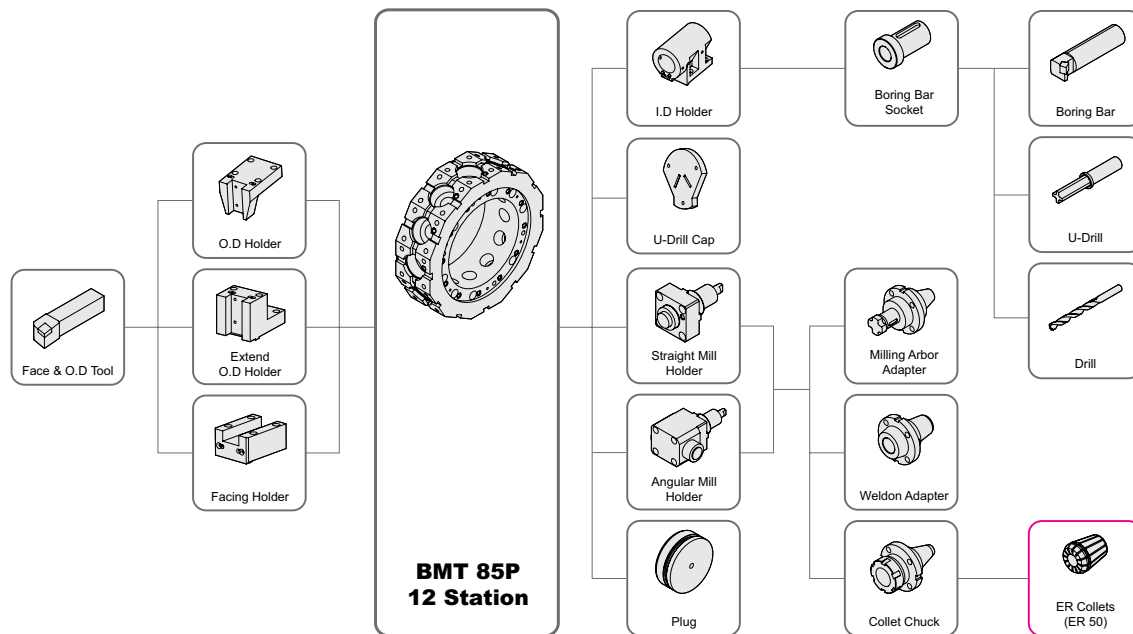
ITEM			A/D		LA/LD	
			mm Unit	inch Unit	mm Unit	inch Unit
Turning Holder	O.D Holder	Right/Left	4	4	4	4
		Extended	1	1	1	1
	Facing Holder		1	1	1	1
Boring Holder	I.D Holder	Single	6	6	6	6
		Long (SET)	-	-	Opt	-
Driven Holder	Straight Mill Holder	Standard	-	-	-	-
	Angular Mill Holder	Standard	-	-	-	-
Socket	Boring	Ø20 (Ø3/4")	1	1	1	1
		Ø25 (Ø1")	1	1	1	1
		Ø32 (Ø1 1/4")	1	1	1	1
		Ø40 (Ø1 1/2")	1	1	1	1
		Ø50 (Ø2")	1	1	1	1
		Ø60 (Ø2 1/4")	1	1	1	1
	Drill	MT 3	Opt	Opt	Opt	Opt
		MT 4	Opt	Opt	Opt	Opt
		MT 5	Opt	Opt	Opt	Opt
	Adapter Set		-	-	-	-

SPECIFICATIONS

Tooling System

unit : mm(in)

L600MA/600LMA/700MA/700LMA/800MA/800LMA/800MD/800LMD



L600/700/800 Series Tooling Parts Detail

ITEM			MA/MD		LMA/LMD	
			mm Unit	inch Unit	mm Unit	inch Unit
Turning Holder	O.D Holder	Right/Left	3	3	3	3
		Extended	1	1	1	1
	Facing Holder		1	1	1	1
Boring Holder	I.D Holder	Single	5	5	5	5
		Long (SET)	-	-	Opt	-
Driven Holder	Straight Mill Holder	Standard	1	1	1	1
	Angular Mill Holder	Standard	1	1	1	1
Socket	Boring	Ø20 (Ø3/4")	1	1	1	1
		Ø25 (Ø1")	1	1	1	1
		Ø32 (Ø1 1/4")	1	1	1	1
		Ø40 (Ø1 1/2")	1	1	1	1
		Ø50 (Ø2")	1	1	1	1
		Ø60 (Ø2 1/4")	1	1	1	1
	Drill	MT 3	Opt	Opt	Opt	Opt
		MT 4	Opt	Opt	Opt	Opt
		MT 5	Opt	Opt	Opt	Opt
	Adapter Set		1 Set	1 Set	1 Set	1 Set

Specifications are subject to change without notice for improvement. (Driven Holder - EWS : Standard, Eppinger : Option)

unit : mm(in)

Technical drawing of the 3D printer's internal structure, showing dimensions for the Z-axis stroke and X-axis stroke.

Z-AXIS STROKE

- 1680 (66.1)
- 165 (6.5)
- 142 (5.6)
- 17 (0.7)
- 62 (2.4)
- 130 (5.1)
- 370 (14.5)
- 500 (19.6)
- 165 (6.5)
- 140 (5.5)

X-AXIS STROKE

- 274.5 (10.8)
- 1580 (62.2)
- 132.5 (5.2)

Dimensions (mm / inches):

- Ø850 (34)
- Ø800 (32)
- Ø685 (27)
- Ø610 (24)
- Ø530 (21)

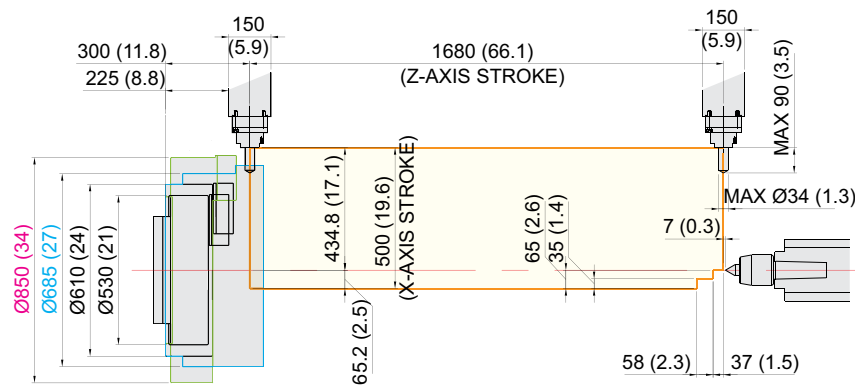
SPECIFICATIONS

Tooling Travel Range

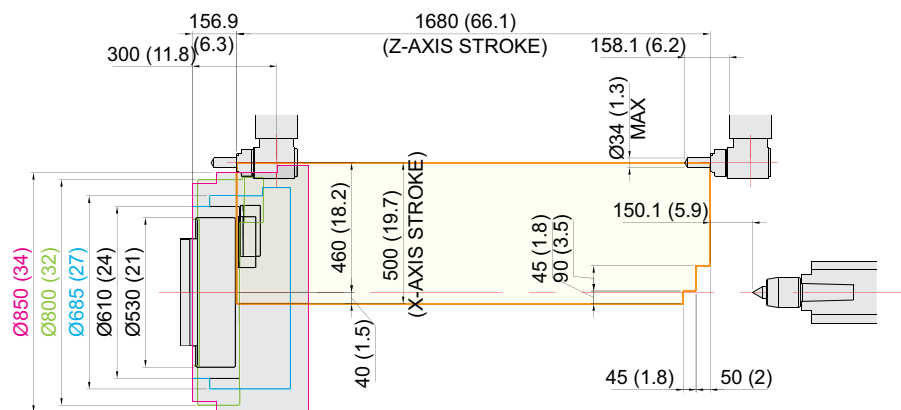
unit : mm(in)

L600MA/700MA/800MA/800MD

STRAIGHT MILLING HEAD



ANGULAR MILLING HEAD



unit : mm(in)

Technical drawing of a 3D printed part showing dimensions in inches and millimeters. The part is a long, cylindrical component with a central hole. Dimensions include overall length (3180 mm), diameter (Ø500 mm), and various internal features and tolerances.

Dimensions (mm):

- Overall Length: 3180 (125.2")
- Overall Diameter: Ø500 (Ø34")
- Internal Diameter: Ø480 (Ø31.5")
- Internal Diameter: Ø468.5 (Ø26.5")
- Internal Diameter: Ø453.0 (Ø20.8")
- Internal Diameter: Ø410 (Ø24")
- Internal Diameter: Ø370 (Ø14.5")
- Internal Diameter: Ø330 (Ø13")
- Internal Diameter: Ø274.5 (Ø10.8")
- Internal Diameter: Ø210 (Ø8.25")
- Internal Diameter: Ø170 (Ø6.69")
- Internal Diameter: Ø140 (Ø5.5")
- Internal Diameter: Ø120 (Ø4.72")
- Internal Diameter: Ø100 (Ø3.94")
- Internal Diameter: Ø80 (Ø3.15")
- Internal Diameter: Ø60 (Ø2.36")
- Internal Diameter: Ø40 (Ø1.57")
- Internal Diameter: Ø20 (Ø0.787")
- Internal Diameter: Ø10 (Ø0.394")
- Internal Diameter: Ø5 (Ø0.197")
- Internal Diameter: Ø2.5 (Ø0.0984")
- Internal Diameter: Ø1.25 (Ø0.0492")
- Internal Diameter: Ø0.625 (Ø0.0246")
- Internal Diameter: Ø0.3125 (Ø0.0123")
- Internal Diameter: Ø0.15625 (Ø0.00615")
- Internal Diameter: Ø0.078125 (Ø0.00308")
- Internal Diameter: Ø0.0390625 (Ø0.00154")
- Internal Diameter: Ø0.01953125 (Ø0.00077")
- Internal Diameter: Ø0.009765625 (Ø0.000385")
- Internal Diameter: Ø0.0048828125 (Ø0.000192")
- Internal Diameter: Ø0.00244140625 (Ø0.000096")
- Internal Diameter: Ø0.001220703125 (Ø0.000048")
- Internal Diameter: Ø0.0006103515625 (Ø0.000024")
- Internal Diameter: Ø0.00030517578125 (Ø0.000012")
- Internal Diameter: Ø0.000152587890625 (Ø0.000006")
- Internal Diameter: Ø0.0000762939453125 (Ø0.000003")
- Internal Diameter: Ø0.00003814697265625 (Ø0.0000015")
- Internal Diameter: Ø0.000019073486328125 (Ø0.00000075")
- Internal Diameter: Ø0.0000095367431640625 (Ø0.000000375")
- Internal Diameter: Ø0.00000476837158203125 (Ø0.0000001875")
- Internal Diameter: Ø0.000002384185791015625 (Ø0.00000009375")
- Internal Diameter: Ø0.0000011920928955078125 (Ø0.000000046875")
- Internal Diameter: Ø0.00000059604644775390625 (Ø0.0000000234375")
- Internal Diameter: Ø0.000000298023223876953125 (Ø0.00000001171875")
- Internal Diameter: Ø0.0000001490116119384765625 (Ø0.000000005859375")
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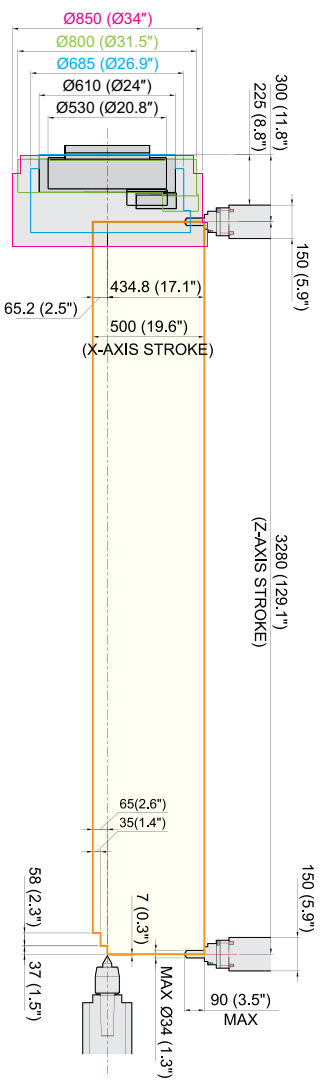
SPECIFICATIONS

Tooling Travel Range

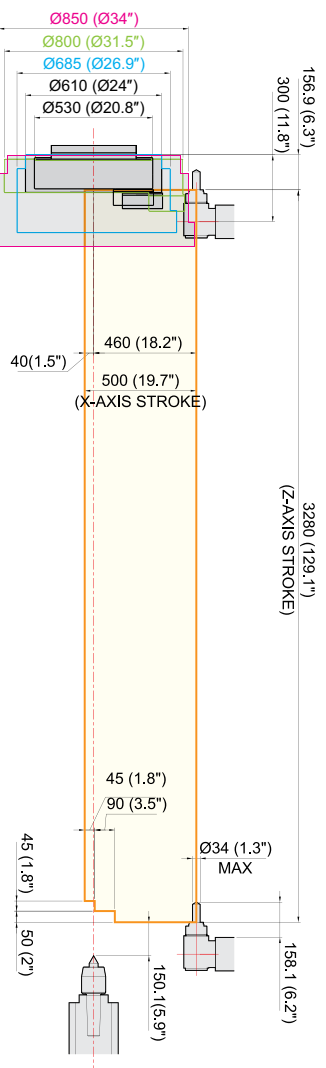
Unit : mm(In)

L600LMA/700LMA/800LMA/800LMD

STRAIGHT MILLING HEAD



ANGULAR MILLING HEAD



SPECIFICATIONS

Specifications

[] : Option

ITEM			L600A	L600MA	L600LA	L600LMA	
CAPACITY	Swing Over the Bed		mm(in)	Ø1,050 (41.3")			
	Swing Over the Carriage		mm(in)	Ø820 (32.3")			
	Max. Turning Dia.		mm(in)	Ø920 (36.2")			
	Max. Turning Length		mm(in)	1,650 (65")		3,250 (128")	
	Bar Capacity		mm(in)	{18": Ø117 (Ø4.6")} {21": Ø139 (Ø5.5')}			
SPINDLE	Chuck Size		inch	Opt. [18"/21"]			
	Spindle Bore		mm(in)	Ø152 (6")			
	Spindle Speed (rpm)		r/min	1,800			
	Motor (30min./Cont.)		kW(HP)	45/37 (60/50)			
	Torque (30min/Cont.)		N·m(lbf·ft)	5,610/4,621 (4,137.7/3,408.3)			
	Spindle Type		-	BELT + 3 STEP GEAR			
	Spindle Nose		-	A2-15			
	C-axis Indexing		deg	-	0.001°	-	0.001°
	FEED	Travel (X/Z)		mm(in)	500/1,680 (19.7"/66.1")		500/3,280 (19.7"/129.1")
Rapid Traverse Rate (X/Z)		m/min	12/16		12/12		
Slide Type		-	BOX GUIDE				
TURRET	No. of Tools		EA	12			
	Tool Size	OD	mm(in)	□ 32 (1.3")			
		ID	mm(in)	Ø80 (3.1")			
	Indexing Time		sec/step	0.4			
LIVE TOOL	Motor (Max/Cont.)		kW(HP)	-	11/7.5 (14.8/10)	-	11/7.5 (14.8/10)
	Milling Tool Speed (rpm)		r/min	-	3,000	-	3,000
	Torque (Max/Cont.)		N·m(lbf·ft)	-	140/95.4 (103.3/70.4)	-	140/95.4 (103.3/70.4)
	Collet Size		mm(in)	-	Ø34 (1.3") - ER50	-	Ø34 (1.3") - ER50
	Type		-	-	BMT85P	-	BMT85P
TAIL STOCK	Taper		-	MT6 (Built-in)			
	Quill Dia.		mm(in)	Ø160 (6.3")			
	Quill Travel		mm(in)	132.5 (5.2")			
	Travel		mm(in)	1,580 (62.2")		3,180 (125.2")	
TANK CAPACITY	Coolant Tank		ℓ (gal)	570 (150.6)		770 (203.4)	
	Lubricating Tank		ℓ (gal)	4 (1.1)			
POWER SUPPLY	Electric Power Supply		kVA	50			
	Thickness of Power Cable		Sq	Over 50			
	Voltage		V/Hz	220/60 (200/50*)			
MACHINE	Floor Space (L×W)		mm(in)	7,077×3,075 (278.6"×121.1")		8,715×3,075 (343.1"×121.1")	
	Height		mm(in)	2,700 (106.3")			
	Weight		kg(lb)	18,000 (3,968)		23,500 (51,809)	
NC	Controller		-	FANUC 32i-B, HYUNDAI WIA FANUC i Series, HYUNDAI-ITROL			

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

*) Using 50Hz voltage instead of 60Hz may lower the output of motors. (excluding servo motors and inverter motors)
Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Specifications

[] : Option

ITEM			L700A	L700MA	L700LA	L700LMA
CAPACITY	Swing Over the Bed	mm(in)	Ø1,050 (41.3")			
	Swing Over the Carriage	mm(in)	Ø820 (32.3")			
	Max. Turning Dia.	mm(in)	Ø920 (36.2")			
	Max. Turning Length	mm(in)	1,650 (65")		3,250 (128")	
	Bar Capacity	mm(in)	Ø165 (6.5")			
SPINDLE	Chuck Size	inch	Opt. [24"]			
	Spindle Bore	mm(in)	Ø181 (7.1")			
	Spindle Speed (rpm)	r/min	1,500			
	Motor (30min./Cont.)	kW(HP)	45/37 (60/50)			
	Torque (30min/Cont.)	N·m(lbf·ft)	6,928/5,700 (5,109.8/4,204.1)			
	Spindle Type	-	BELT+3STEP GEAR			
	Spindle Nose	-	A1-15			
	C-axis Indexing	deg	-	0.001°	-	0.001°
	FEED	Travel (X/Z)	mm(in)	500/1,680 (19.7"/66.1")		500/3,280 (19.7"/129.1")
Rapid Traverse Rate (X/Z)		m/min	12/16		12/12	
Slide Type		-	BOX GUIDE			
TURRET	No. of Tools	EA	12			
	Tool Size	OD	mm(in)	□ 32 (1.3")		
		ID	mm(in)	Ø80 (3.1")		
	Indexing Time	sec/step	0.4			
LIVE TOOL	Motor (Max/Cont.)	kW(HP)	-	11/7.5 (14.8/10)	-	11/7.5 (14.8/10)
	Milling Tool Speed (rpm)	r/min	-	3,000	-	3,000
	Torque (Max/Cont.)	N·m(lbf·ft)	-	140/95.4 (103.3/70.4)	-	140/95.4 (103.3/70.4)
	Collet Size	mm(in)	-	Ø34 (1.3") - ER50	-	Ø34 (1.3") - ER50
	Type	-	-	BMT85P	-	BMT85P
TAIL STOCK	Taper	-	MT6 (Built-in)			
	Quill Dia.	mm(in)	Ø160 (6.3")			
	Quill Travel	mm(in)	132.5 (5.2")			
	Travel	mm(in)	1,580 (62.2")		3,180 (125.2")	
TANK CAPACITY	Coolant Tank	ℓ (gal)	570 (150.6)		770 (203.4)	
	Lubricating Tank	ℓ (gal)	4 (1.1)			
POWER SUPPLY	Electric Power Supply	kVA	51			
	Thickness of Power Cable	Sq	Over 50			
	Voltage	V/Hz	220/60 (200/50*)			
MACHINE	Floor Space (L×W)	mm(in)	7,077×3,075 (278.6"×121.1")		8,715×3,075 (343.1"×121.1")	
	Height	mm(in)	2,700 (106.3")			
	Weight	kg(lb)	18,000 (3,968)		23,500 (51,809)	
NC	Controller	-	FANUC 32i-B, HYUNDAI WIA FANUC i Series, HYUNDAI-iTROL			

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

*) Using 50Hz voltage instead of 60Hz may lower the output of motors. (excluding servo motors and inverter motors)
Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Specifications

[] : Option

ITEM			L800A	L800MA	L800LA	L800LMA	
CAPACITY	Swing Over the Bed		mm(in)	Ø1,050 (41.3")			
	Swing Over the Carriage		mm(in)	Ø820 (32.3")			
	Max. Turning Dia.		mm(in)	Ø920 (36.2")			
	Max. Turning Length		mm(in)	1,650 (65")		3,250 (128")	
	Bar Capacity		mm(in)	Hydraulic : Ø239 (9.4"), Air/Independent : Ø319 (12.6")			
SPINDLE	Chuck Size		inch	Opt. [32"]			
	Spindle Bore		mm(in)	Ø320 (12.6")			
	Spindle Speed (rpm)		r/min	700			
	Motor (30min./Cont.)		kW(HP)	45/37 (60/50)			
	Torque (30min/Cont.)		N·m(lbf·ft)	7,045/5,795 (5,196.1/4,274.2)			
	Spindle Type		-	BELT+2STEP GEAR			
	Spindle Nose		-	A1-20			
	C-axis Indexing		deg	-	0.001°	-	0.001°
	FEED	Travel (X/Z)		mm(in)	500/1,680 (19.7"/66.1")		500/3,280 (19.7"/129.1")
Rapid Traverse Rate (X/Z)		m/min	12/16		12/12		
Slide Type		-	BOX GUIDE				
TURRET	No. of Tools		EA	12			
	Tool Size	OD	mm(in)	□ 32 (1.3")			
		ID	mm(in)	Ø80 (3.1")			
	Indexing Time		sec/step	0.4			
LIVE TOOL	Motor (Max/Cont.)		kW(HP)	-	11/7.5 (14.8/10)	-	11/7.5 (14.8/10)
	Milling Tool Speed (rpm)		r/min	-	3,000	-	3,000
	Torque (Max/Cont.)		N·m(lbf·ft)	-	140/95.4 (103.3/70.4)	-	140/95.4 (103.3/70.4)
	Collet Size		mm(in)	-	Ø34 (1.3") - ER50	-	Ø34 (1.3") - ER50
	Type		-	-	BMT85P	-	BMT85P
TAIL STOCK	Taper		-	MT6 (Built-in)			
	Quill Dia.		mm(in)	Ø160 (6.3")			
	Quill Travel		mm(in)	132.5 (5.2")			
	Travel		mm(in)	1,580 (62.2")		3,180 (125.2")	
TANK CAPACITY	Coolant Tank		ℓ (gal)	570 (150.6)		770 (203.4)	
	Lubricating Tank		ℓ (gal)	4 (1.1)			
POWER SUPPLY	Electric Power Supply		kVA	54			
	Thickness of Power Cable		Sq	Over 50			
	Voltage		V/Hz	220/60 (200/50*)			
MACHINE	Floor Space (L×W)		mm(in)	7,077×3,075 (278.6"×121.1")		8,715×3,075 (343.1"×121.1")	
	Height		mm(in)	2,700 (106.3")			
	Weight		kg(lb)	18,000 (3,968)		23,500 (51,809)	
NC	Controller		-	FANUC 32i-B, HYUNDAI WIA FANUC i Series, HYUNDAI-ITROL			

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SPECIFICATIONS

Specifications

[] : Option

ITEM			L800D	L800MD	L800LD	L800LMD	
CAPACITY	Swing Over the Bed		mm(in)	Ø1,050 (41.3")			
	Swing Over the Carriage		mm(in)	Ø820 (32.3")			
	Max. Turning Dia.		mm(in)	Ø920 (36.2")			
	Max. Turning Length		mm(in)	1,650 (65")		3,250 (128")	
	Bar Capacity		mm(in)	Ø374 (14.7")			
SPINDLE	Chuck Size		inch	Opt. [34" Air Chuck] [32" Independent Chucks]			
	Spindle Bore		mm(in)	Ø375 (14.8")			
	Spindle Speed (rpm)		r/min	500			
	Motor (30min./Cont.)		kW(HP)	45/37 (60/50)			
	Torque (30min/Cont.)		N·m(lbf·ft)	7,288/5,992 (5,375.4/4,419.5)			
	Spindle Type		-	BELT+2STEP GEAR			
	Spindle Nose		-	A2-20			
	C-axis Indexing		deg	-	0.001°	-	0.001°
FEED	Travel (X/Z)		mm(in)	500/1,680 (19.7"/66.1")		500/3,280 (19.7"/129.1")	
	Rapid Traverse Rate (X/Z)		m/min	12/16		12/12	
	Slide Type		-	BOX GUIDE			
TURRET	No. of Tools		EA	12			
	Tool Size	OD	mm(in)	□ 32 (1.3")			
		ID	mm(in)	Ø80 (3.1")			
	Indexing Time		sec/step	0.4			
LIVE TOOL	Motor (Max/Cont.)		kW(HP)	-	11/7.5 (14.8/10)	-	11/7.5 (14.8/10)
	Milling Tool Speed (rpm)		r/min	-	3,000	-	3,000
	Torque (Max/Cont.)		N·m(lbf·ft)	-	140/95.4 (103.3/70.4)	-	140/95.4 (103.3/70.4)
	Collet Size		mm(in)	-	Ø34 (1.3") – ER50	-	Ø34 (1.3") – ER50
	Type		-	-	BMT85P	-	BMT85P
TAIL STOCK (OPTION)	Taper		-	MT6 (Built-in)			
	Quill Dia.		mm(in)	Ø160 (6.3")			
	Quill Travel		mm(in)	132.5 (5.2")			
	Travel		mm(in)	1,580 (62.2")		3,180 (125.2")	
TANK CAPACITY	Coolant Tank		ℓ (gal)	570 (150.6)		770 (203.4)	
	Lubricating Tank		ℓ (gal)	4 (1.1)			
POWER SUPPLY	Electric Power Supply		kVA	54			
	Thickness of Power Cable		Sq	Over 50			
	Voltage		V/Hz	220/60 (200/50*)			
MACHINE	Floor Space (L×W)		mm(in)	7,077×3,075 (278.6"×121.1")		8,715×3,075 (343.1"×121.1")	
	Height		mm(in)	2,700 (106.3")			
	Weight		kg(lb)	18,000 (3,968)		23,500 (51,809)	
NC	Controller		-	FANUC 32i-B, HYUNDAI WIA FANUC i Series, HYUNDAI-iTROL			

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Specifications are subject to change without notice for improvement.

CONTROLLER

FANUC 32i-B

[] : Option

Controlled axis / Display / Accuracy Compensation	
Control axes	2 axes (X, Z) / 3 axes (X, Z, C) / 4 axes (X, Z, Y, C) 5 axes (X, Z, B, C, A) / 6 axes (X, Z, Y, B, C, A)
Simultaneously controlled axes	2 axes [Max. 4 axes]
Designation of spindle axes	4 axes (1 path), 6 axes (2 path Total)
Least setting Unit	X, Z, Y, B axes : 0.001 mm (0.0001 inch) C, A axes : 0.001 deg
Least input increment	X, Z, Y, B axes : 0.001 mm (0.0001 inch) C, A axes : 0.001 deg
Inch / Metric conversion	G20 / G21
High response vector control	
Interlock	All axes / Each axis
Machine lock	All axes
Backlash compensation	± 0 ~ 9999 pulses (Rapid traverse / Cutting feed)
Position switch	
LCD / MDI	10.4 inch color LCD
Feedback	Absolute motor feedback
Stored stroke check 1	Over travel
Stored stroke check 2, 3	
PMC axis control	
Operation	
Automatic operation (Memory)	
MDI operation	
DNC operation	Needed DNC software / CF card
Program restart	
Wrong operation prevention	
Program check function	Dry run, Program check
Single block	
Search function	Program Number / Sequence Number
Interpolation functions	
Nano interpolation	
Positioning	G00
Linear interpolation	G01
Circular interpolation	G02, G03
Exact stop mode	Single : G09, Continuous : G61
Dwell	G04, 0 ~ 9999.9999 sec
Skip	G31
Reference position return	1st reference : G28 2nd reference : G30 Ref. position check : G27
Thread synchronous cutting	
Thread cutting retract	
Variable lead thread cutting	
Multi / Continuous threading	
Feed function / Acc. & Dec. control	
Manual feed	Rapid traverse Jog : 0~2,000 mm/min (79 ipm) Manual handle : x1, x10, x100 pulses Reference position return
Cutting Feed command	Direct input F code
Feedrate override	0 ~ 200% (10% Unit)
Rapid traverse override	F1%, F25%, 50%, F100%
Override cancel	
Feed per minute	G98
Feed per revolution	G99
Look-ahead block	1 block
Program input	
Tape Code	EIA / ISO
Optional block skip	1 ea
Absolute / Incremental program	G90 / G91
Program stop / end	M00, M01 / M02, M30
Maximum command unit	± 999,999.999 mm (± 99,999.9999 inch)
Plane selection	X-Y : G17 / Z-X : G18 / Y-Z : G19
Workpiece coordinate system	G52, G53, 6 pairs (G54 ~ G59)
Manual absolute	Fixed ON
Programmable data input	G10
Sub program call	10 folds nested
Custom macro	#100 ~ #149, #500 ~ #549
G code system	A
Programmable mirror image	G51.1, G50.1
G code preventing buffering	G4.1
Multiple repetitive cycles I, II	

Program input	
Canned cycle for turning	
Manual Guide i	Conversational auto program
Auxiliary function / Spindle speed function	
Auxiliary function	M 4 digit
Level-up M Code	High speed / Multi / Bypass M code
Spindle speed function	S 4 digit, Binary output
Spindle override	0% ~ 150% (10% Unit)
Multi position spindle orientation	M19
Rigid tapping	
Constant surface speed control	G96, G97
Tool function / Tool compensation	
Tool function	T 2 digit + Offset 2 digit
Tool life management	
Tool offset pairs	32 pairs
Tool nose radius compensation	G40, G41, G42
Geometry / Wear compensation	
Direct input of offset measured B	
Editing function	
Part program storage size	640m (256KB)
No. of registerable programs	500 ea
Program protect	
Background editing	
Extended part program editing	Copy, move and change of NC program
Memory card program edit	
Data input / output & Interface	
I/O interface	RS 232C serial port, CF card, USB memory Embedded Ethernet interface
Screen hard copy	
External message	
External key input	
External workpiece number search	
Automatic data backup	
Setting, display and diagnosis	
Self-diagnosis function	
History display & Operation	Alarm & Operator message & Operation
Run hour / Parts count display	
Maintenance information	
Actual cutting feedrate display	
Display of spindle speed / T code	
Graphic display	
Operating monitor screen	Spindle / Servo load etc.
Power consumption monitoring	Spindle & Servo
Spindle / Servo setting screen	
Multi language display	Support 20 languages
Display language switching	Selection of 5 optional Languages
LCD Screen Saver	Screen saver
Unexpected disturbance torque	BST (Back spin torque limit)
Function for machine type	
Cs contour control (C & A axes)	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Polar coordinate interpolation	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Cylindrical interpolation	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Canned cycle for drilling	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Spindle orientation expansion	MS, SY TTS, TTMS, TTSY
Spindle synchronous control	MS, SY TTS, TTMS, TTSY
Torque control	MS, SY TTS, TTMS, TTSY
Y axis offset	Y, SY, TTSY
Arbitrary angular control	Y, SY, TTSY
Composite / Superimposed control	MS, SY TTS, TTMS, TTSY
Balance cutting	MS, SY TTS, TTMS, TTSY
Option	
Additional optional block skip	9 ea
Fast ethernet	Needed option board
Data server	Needed option board
Protection of data at 8 levels	
Tool offset pairs	64 pairs / 99 pairs / 200 pairs
Part program storage size	1280 m (512KB) / 2560m (1MB)
Polygon turning (2 Spindles)	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Helical interpolation	
Dynamic graphic display	
Direct drawing dimension program	Including Chamfering / Corner R

Figures in inch are converted from metric values.

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HYUNDAI WIA FANUC i Series

[] : Option

Controlled axis / Display / Accuracy Compensation	
Control axes	2 axes (X, Z) / 3 axes (X, Z, C / X, Z, B) / 4 axes (X, Z, Y, C) 5 axes (X, Z, B, C, A) / 6 axes (X, Z, Y, B, C, A)
Simultaneously controlled axes	2 axes [Max. 4 axes]
Designation of spindle axes	3 axes (1 path)
Least setting Unit	X, Z, Y, B axes : 0.001 mm (0.0001 inch) C, A axes : 0.001 deg
Least input increment	X, Z, Y, B axes : 0.001 mm (0.0001 inch) C, A axes : 0.001 deg
Inch / Metric conversion	G20 / G21
High response vector control	
Interlock	All axes / Each axis
Machine lock	All axes
Backlash compensation	± 0 ~ 9999 pulses (Rapid traverse / Cutting feed)
Position switch	
LCD / MDI	10.4 inch color LCD
Feedback	Absolute motor feedback
Stored stroke check 1	Over travel
Stored stroke check 2, 3	
PMC axis control	
Operation	
Automatic operation (Memory)	
MDI operation	
DNC operation	Needed DNC software / CF card
Program restart	
Wrong operation prevention	
Program check function	Dry run
Single block	
Search function	Program Number / Sequence Number
Interpolation functions	
Nano interpolation	
Positioning	G00
Linear interpolation	G01
Circular interpolation	G02, G03
Exact stop mode	Single : G09, Continuous : G61
Dwell	G04, 0 ~ 9999.9999 sec
Skip	G31
Reference position return	1st reference : G28 2nd reference : G30 Ref. position check : G27
Thread synchronous cutting	
Thread cutting retract	
Variable lead thread cutting	
Multi / Continuous threading	
Feed function / Acc. & Dec. control	
Manual feed	Rapid traverse Jog : 0~2,000 mm/min (79 ipm) Manual handle : x1, x10, x100 pulses Reference position return
Cutting Feed command	Direct input F code
Feedrate override	0 ~ 200% (10% Unit)
Rapid traverse override	1%, F25%, 50%, 100%
Override cancel	
Feed per minute	G98
Feed per revolution	G99
Look-ahead block	1 block
Program input	
Tape Code	EIA / ISO
Optional block skip	1 ea
Absolute / Incremental program	G90 / G91
Program stop / end	M00, M01 / M02, M30
Maximum command unit	± 999,999.999 mm (± 99,999.9999 inch)
Plane selection	X-Y : G17 / Z-X : G18 / Y-Z : G19
Workpiece coordinate system	G52, G53, 6 pairs (G54 ~ G59)
Manual absolute	Fixed ON
Programmable data input	G10
Sub program call	10 folds nested
Custom macro	#100 ~ #199, #500 ~ #999
G code system	A
Programmable mirror image	G51.1, G50.1
G code preventing buffering	G4.1
Direct drawing dimension program	Including Chamfering / Corner R

Program input	
Multiple repetitive cycles	I, II
Canned cycle for turning	
Auxiliary function / Spindle speed function	
Auxiliary function	M 4 digit
Level-up M Code	High speed / Multi / Bypass M code
Spindle speed function	S 4 digit, Binary output
Spindle override	0% ~ 150% (10% Unit)
Multi position spindle orientation	M19 (S, _ _)
Rigid tapping	
Constant surface speed control	G96, G97
Tool function / Tool compensation	
Tool function	T 2 digit + Offset 2 digit
Tool life management	
Tool offset pairs	128 pairs
Tool nose radius compensation	G40, G41, G42
Geometry / Wear compensation	
Direct input of offset measured B	
Editing function	
Part program storage size	1280m (512KB)
No. of registerable programs	1000 ea
Program protect	
Background editing	
Extended part program editing	Copy, move and change of NC program
Memory card program edit	
Data input / output & Interface	
I/O interface	RS 232C serial port, CF card, USB memory Embedded Ethernet interface
Screen hard copy	
External message	
External key input	
External workpiece number search	
Automatic data backup	
Setting, display and diagnosis	
Self-diagnosis function	
History display & Operation	Alarm & Operator message & Operation
Run hour / Parts count display	
Maintenance information	
Actual cutting feedrate display	
Display of spindle speed / T code	
Graphic display	
Operating monitor screen	Spindle / Servo load etc.
Power consumption monitoring	Spindle & Servo
Spindle / Servo setting screen	
Multi language display	Support 20 languages
Display language switching	Selection of 5 optional Languages
LCD Screen Saver	Screen saver
Unexpected disturbance torque	BST (Back spin torque limit)
Function for machine type	
Cs contour control (C & A axes)	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Polar coordinate interpolation	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Cylindrical interpolation	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Canned cycle for drilling	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Spindle orientation expansion	MS, SY TTS, TTMS, TTSY
Spindle synchronous control	MS, SY TTS, TTMS, TTSY
Torque control	MS, SY TTS, TTMS, TTSY
Y axis offset	Y, SY, TTSY
Arbitrary angular control	Y, SY, TTSY
Composite / Superimposed control	MS, SY TTS, TTMS, TTSY
Balance cutting	MS, SY TTS, TTMS, TTSY
Option	
Fast ethernet	Needed option board
Data server	Needed option board
Protection of data at 8 levels	
Tool offset pairs	200 pairs
Part program storage size	5120m (2MB)
Polygon turning (2 Spindles)	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Helical interpolation	
Manual Guide i	Conversational auto program
Dynamic graphic display	

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CONTROLLER

HYUNDAI-iTROL

Control & Composition	
Number of axis/Spindles	2 axes (X, Z) / 3 axes (X, Z, C)
Number of axis/Spindles, max.	8 axes (Axis + Spindle)
Color display	TFT 10.4" Color (800 x 600)
Keyboard	QWERTY Full Keyboard
Part program storage	1MB, 3MB, 5MB
Addition of part program on CF card	
Transfer Function	
Feedrate override	0% ~ 200%
Transfer value input range	± 999999999
Unlimited rotation of rotation axis	
Acc./Dec. with jerk limitation	
Measuring systems 1 and 2, selectable	
Travel to fixed stop	
Auto servo drive tuning	
Spindle Function	
Spindle override	0% ~ 150%
Spindle speed, max. programmable value range	1000000 ~ 0.0001
Automatic gear stage selection	
Spindle orientation	
Spindle speed limitation	
Rigid tapping	
Spindle control with PLC	
Interpolation	
Linear interpolation axis, max.	4 axis
Circle via center point and end point	
Circle via interpolation point	
Helical interpolation	
Non-uniform rational B splines	
Continuous – path mode with programmable rounding clearance	
Program Function	
Subroutine levels, max.	7
Interrupt routines, max.	2
Number of levels for skip blocks	2
Polar Coordinates	
Dimensions inch/metric, changeover manually or via program	
Dynamic preprocessing memory FIFO	
Look ahead	1
Absolute/Incremental command	G90 / G91
Scaling/Rotation	
Read/Write system variables	
Block search	
Edit background	
Processing program number, max.	750
Using of CF Card, USB	
Basic coordinate number, max.	1
Work coordinate number, max.	100
Basic/Work coordinate programming change	
Scratching function	
Global and Local user data (GUD/LUD)	
Global program user data	
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	

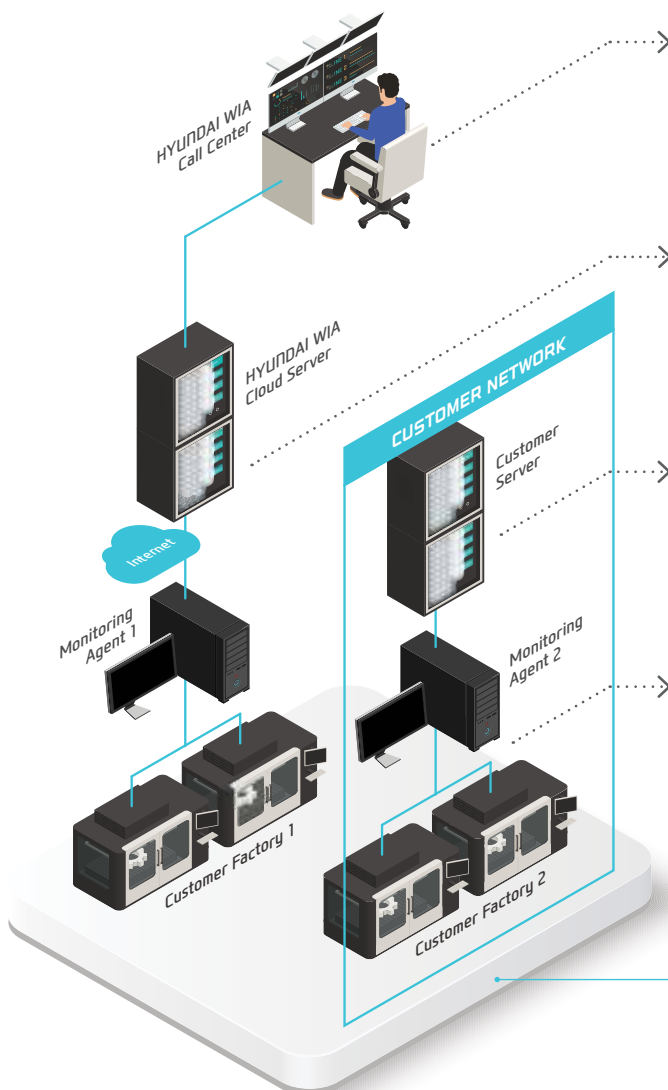
Compensation	
Backlash compensation	
Leadscrew error compensation	
Measuring system error compensation	
Feedforward control (Speed control)	
Safety Function	
Safe torque off (STO)	
Safe brake control (SBC)	
Safe stop 1 (SSI)	
Diagnostic Function	
Alarm/Message , Alarm log	
PLC status/LAD online display	
PLC remote connection (Ethernet)	
Automation Support Function	
Actual velocity display	
Tool life management	As time / As amount
Work counter/Cycle time	Embedded
2D simulation	
Manual Operation	
Manual handle/Jog transfer	
Manual measurement of workpiece / tool offset	
Automatic tool/Workpiece measurement	
Automatic/Program reference approach	
Automatic Operation	
Program run as using CF card/USB	
Program control/modification	
Block search	
Reposition	
Preset (Set actual value)	
Data Transmission	
Ethernet network	
USB memory stick & CF card	
Convenience Function	
Processing setting	Coordinate system setting, Auto tool length measurement
Processing support	Tool Monitoring, Spindle overload monitoring
Maintenance	Turret Guidance, I/O monitoring, Manual
Management	Soft MCP, M/G code List
SMART machining	
Energy saving function (ECO)	
Machine Monitoring System (MMS Lite)	
Language	
Standard support language	Chinese Simplified, English, Korean
Option	
Maximum skip block number	10
DRF offset	
MDI program save/load	
Teach-In mode	
3D simulation	Except for working area/Collision check
Real time simulation	
Shop Turn	Conversational Program
Spline interpolation	
Program remote control in network	
Language	Chinese Traditional, French, German, Italian, Portuguese, Spanish

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



L700A
Movie



L800D
Movie 1



L800D
Movie 2



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

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