

# L280 Series

HYUNDAI WIA CNC Turning Center



# Technical Leader

L280 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"        | Standard | Long | Standard | Turn Mill |
| L280   | ●          | ●        |      | ●        |           |
| L280L  | ●          |          | ●    | ●        |           |
| L280LM | ●          |          | ●    |          | ●         |

New Leader in Middle/Large CNC Turning Center

# L280 Series

- Utilizes roller bearings of Ø140 (Ø5.5") and double angular contact bearings for the main spindle
- Highly sturdy and reliable servo turret
- Main body designed to achieve high rigidity and accuracy
- A powerful tailstock with a thrust of 7,252 N·m (5,348.8 lbf·ft)
- Highly efficient HYUNDAI iTROL (Option) - L280/280L



# 01

## Basic Features

L280 Series

The Best Productivity Popular 10 inch  
CNC Turning Center



01

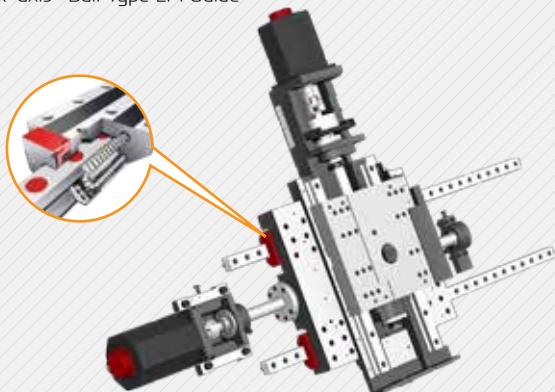
### High Precision, High Rigidity All in One Structure

The L280 features a 60° slant bed design which was developed using finite element analysis (FEA) to effectively absorb vibration for stable and precise machining.

#### Guideway

L280 series applies roller type LM guideway on Z-axis which shows excellent performance in travel. Great repeatability accuracy makes it suitable for precise machining.

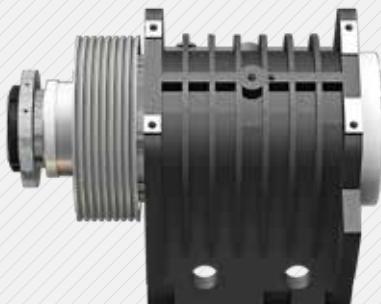
❖ X-axis : Ball Type LM Guide



02

#### Main Spindle

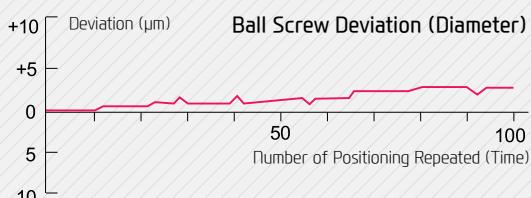
By enlarging the diameter and thickening the width of the spindle, it has become more rigid. Also, highly precise angular ball bearings help maintain rigidity and precision.



03

#### Ball Screw

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

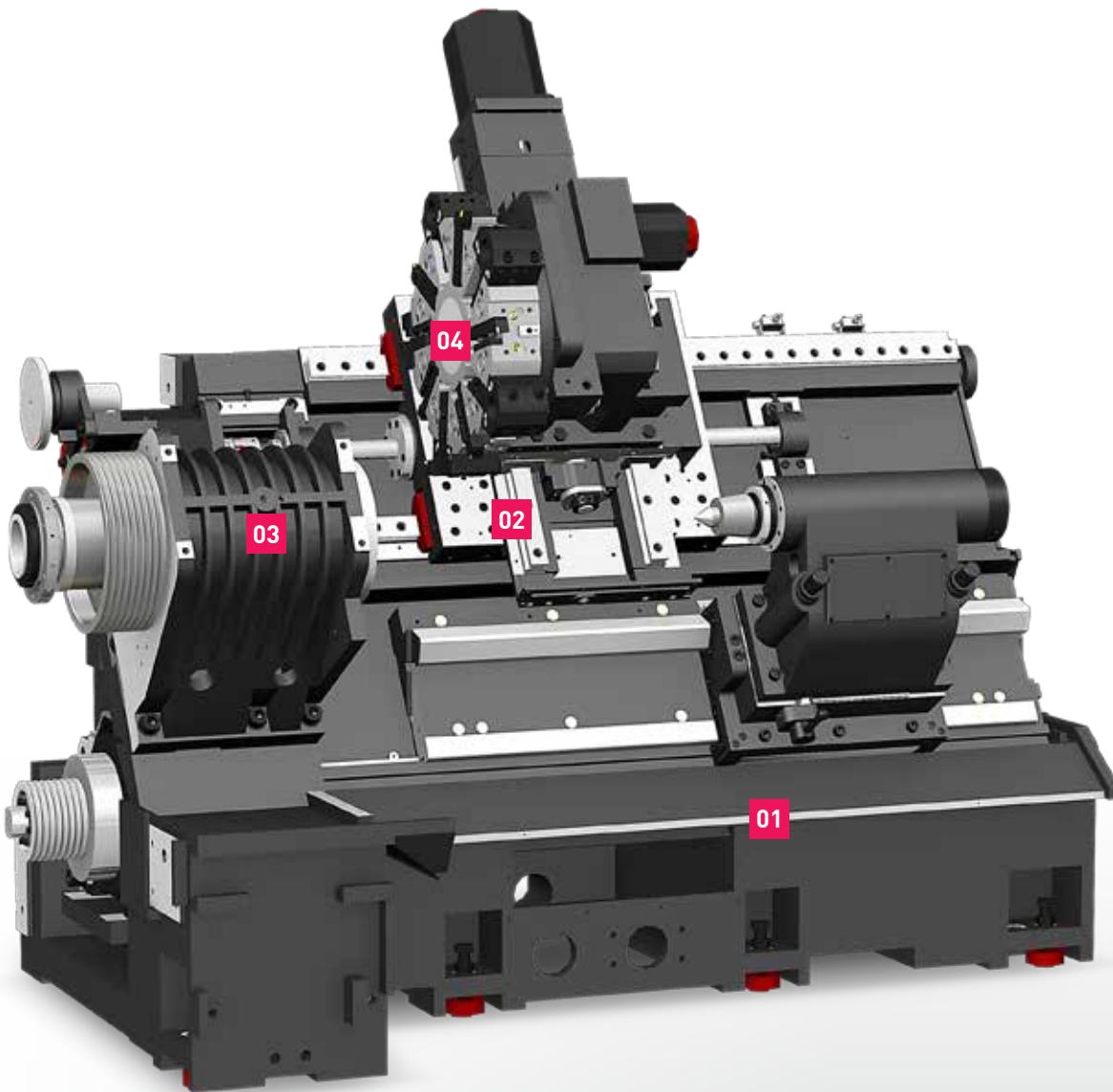


#### Turret

Turret is installed with a 3-piece coupling to ensure high indexing accuracy.

Powerful hydraulic tool clamping enables heavy duty cutting by minimizing the displacement of the tool tip.





### Reduction of non-cutting time by fast rapid speed

- **Rapid Travel** (X/Z axis) : **25/30** m/min (**984/1,181** ipm)

- Compare to Previous Model, rapid travel is improved by X-axis 5m/min (197 ipm), Z-axis 6m/min (236 ipm)

- **Travel** (X/Z axis)

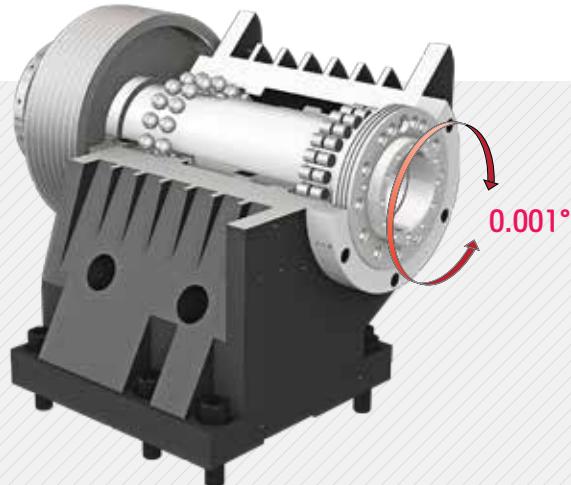
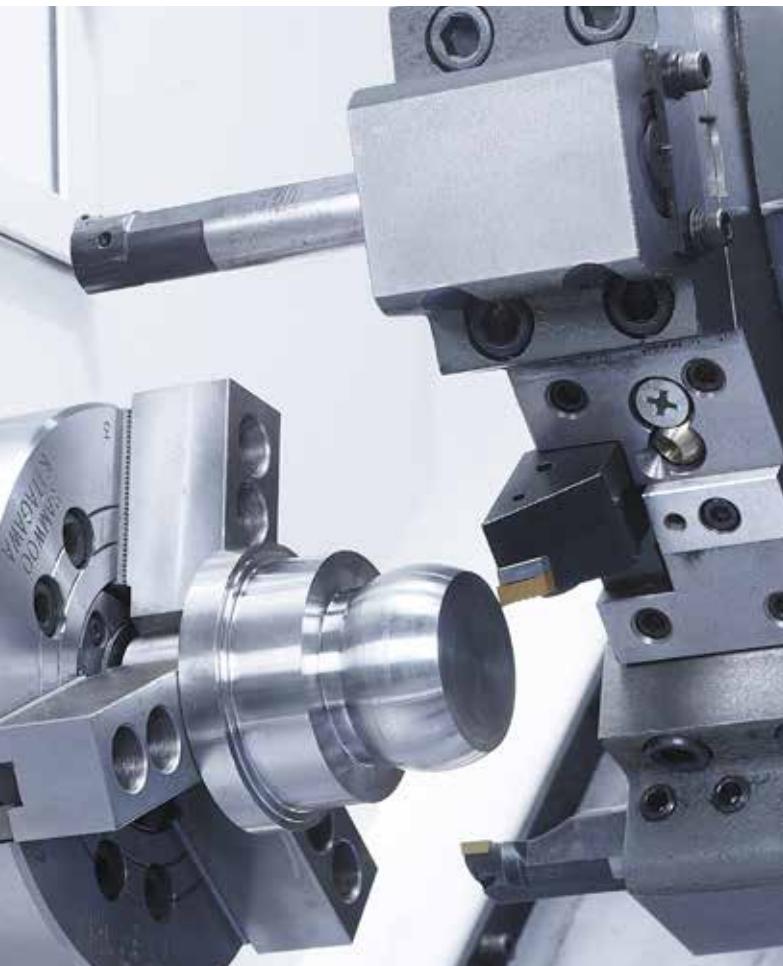
L280 : **220/750** mm (8.7"/29.5")    L280L : **220/1,100** mm (8.7"/43.3")

L280LM : **220/1,020** mm (8.7"/40.2")



# High-Precision Spindle

Long Lasting High Accuracy & Excellent Performance  
CNC Turning Center



## Main Spindle

The main spindle unit is designed with Ø140 (Ø5.5") roller bearings and double angular contact bearings to maintain stability during high speed machining.

The unit is able to maintain precision for a long time where the outer bearing part is assembled to the highest precision standards. Also, stable machining is possible by AC motor which controls spindle at constant speed.

## C-Axis Control

C-axis of L280LM can be controlled to 0.001° which makes it possible to machine various shapes.

## (MT#5) Tail Stock



- The large (MT#5) tail stock ensures high accuracy even during heavy duty cutting.
- The quill travel can be operated by foot pedal, or program.
- The tail stock body can be manually moved by using JOG button or MPG.

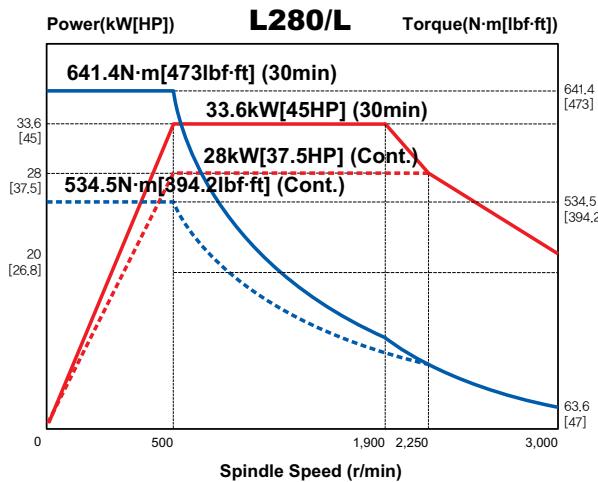


Taper : MT#5 Diameter : Ø100 (Ø3.9") Quill Travel : 120 mm (4.7")

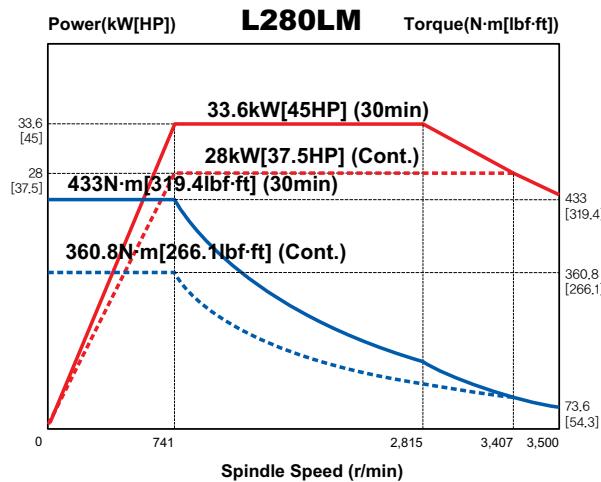
## Spindle Output/Torque Diagram

Continuously variable transmission is possible due to the AC conversion motor. Controlling the spindle at a certain speed is possible which is provided as a standard function.

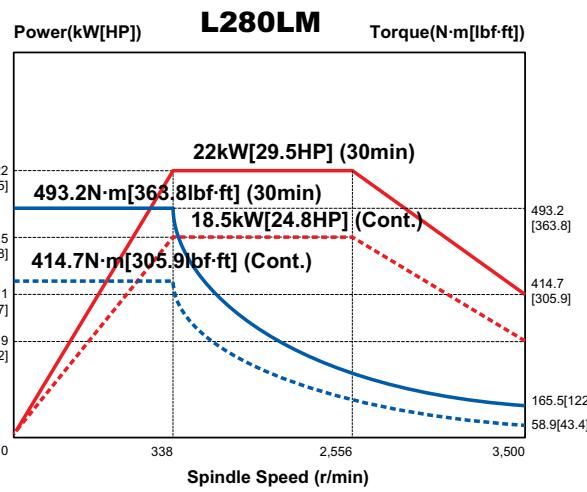
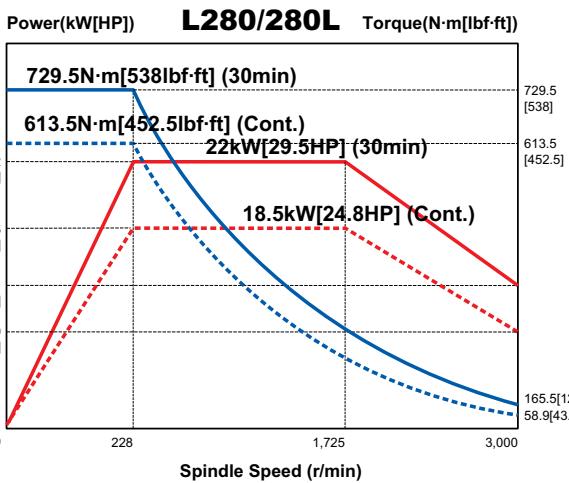
HYUNDAI-iTROL



SIEMENS



FANUC



# n3

L280 Series

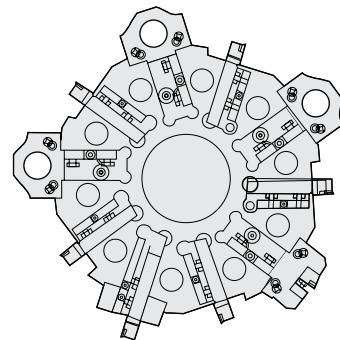
## Servo Turret

High speed, High Accuracy, Highly Reliable  
Servo Turret



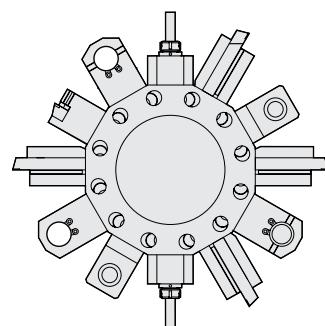
### L280

- ◎ Number of Tools : **10 EA**
- ◎ Tool Size (O.D/I.D)  
**□ 25/Ø50 ( □ 1"/Ø2")**
- ◎ Indexing Time : **0.3 sec/step**



### L280LM

- ◎ Number of Tools : **12 EA**
- ◎ Tool Size (O.D/I.D)  
**□ 25/Ø50 ( □ 1"/Ø2")**
- ◎ Indexing Time : **0.3 sec/step**



### Turret

The L280 series has a high performance AC servo motor and 3-piece coupling attached which enhances its machining reliability. Powerful hydraulic tool clamping minimizes tool tip deviation due to load, which enhances heavy duty cutting ability.

## Mill Turret (VDI)

L280LM applies VDI method which provides a fast and accurate way of affixing tools to the turret.



## Mill Tool Holder

Machining capability is increased with the addition of a straight milling head, which can remove material from the side of the workpiece, and an angular milling head, which can perform I.D. operations.

Also, various types of milling tools such as drill, tap, endmill etc. can be used and this increases machining productivity and efficiency.

**Straight Milling Head**

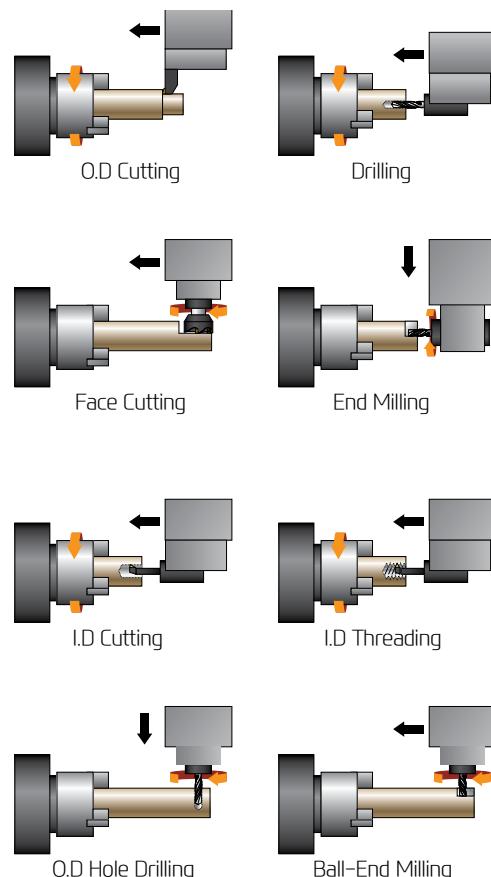


**Angular Milling Head**



- ◎ Output (Max./Cont.) : **5.5/3.7 kW (7.4/5 HP)**
- ◎ Speed : **4,000 rpm**
- ◎ Collet size : **Ø20 (Ø0.8") (ER32)**   ◎ Type : **VDI40**

## Machining Variation



## Sample Workpiece

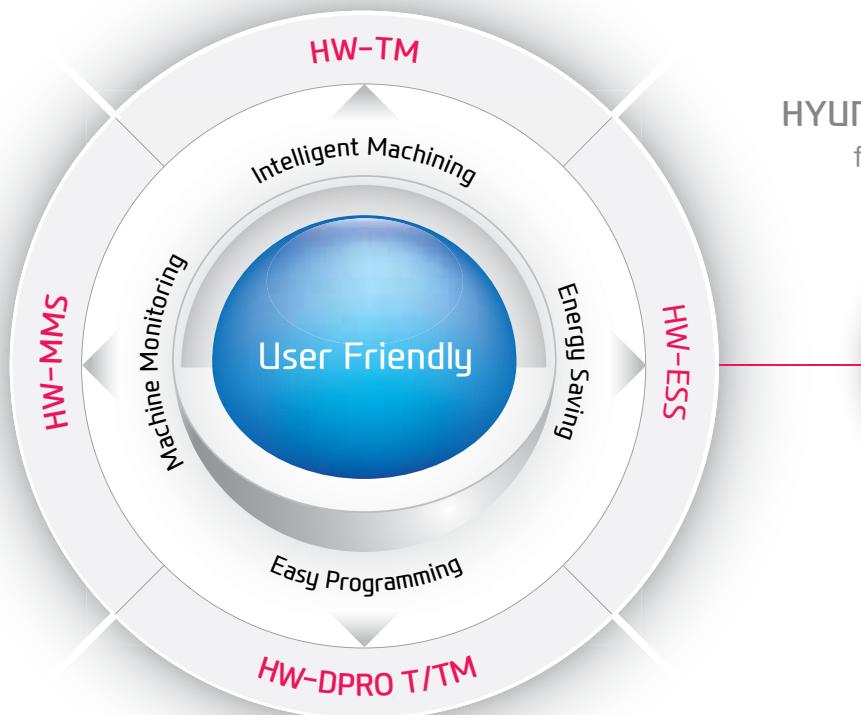




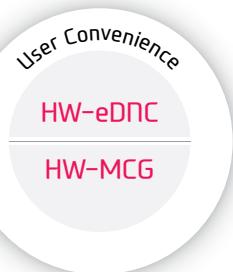
# Smart System



Software for Smart Operating  
and Machining



HYUNDAI WIA Smart System  
for CNC Turning Center



## Smart Factory 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.



- 01 Real-time monitoring of machine operation status (Cloud)
- 02 History and statistics of machine operation (Cloud)
- 03 History and statistics of alarm occurrence (Cloud)
- 04 History and statistics of work count (Cloud)
- 05 Remote diagnosis (Remote)

Faster processing and enhanced accuracy are possible through the **HYUNDAI WIA Smart System**. The user friendly software and equipment monitoring of the Smart System maximizes productivity.



### HW-eDNC

HYUNDAI WIA ethernet  
Direct Numerical Control

This software allows transmission of NC data between PC and a machine's CNC. The processing programs can be managed on the PC through the ethernet or serial communication.



### HW-MCG

HYUNDAI WIA  
Machine Guidance

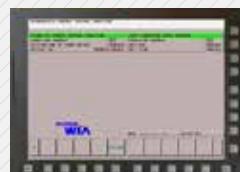
Software that offers operation, maintenance, management monitoring and various user friendly features.



### HW-TM

HYUNDAI WIA  
Tool Monitoring

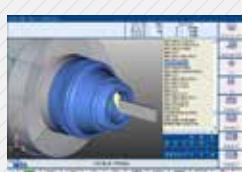
A tool monitoring software which analyzes the load of the spindle motor to determine and monitor possible damage of tools.



### HW-ESS (Standard)

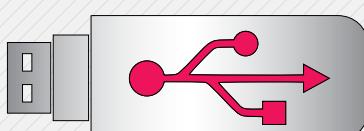
HYUNDAI WIA  
Energy Saving System

An environmental friendly software that reduces the unnecessarily wasted standby power waiting for an operation.



### HW-DPRO T/TM HYUNDAI WIA Dialogue PROgram Turn/TurnMill

Using a dialogue method, this software makes it easy to work out a program for a lathe processing operation. (Can be installed on a PC.)



### USB Port

Convenience is increased when inputting and outputting program. The USB port is available in addition to the former input output methods such as CF memort card and LAN.

# 05

L280 Series

## HYUNDAI-iTROL

The Powerful CNC platform for Machine Tools



## HYUNDAI - iTROL

HYUNDAI Intelligent Control

Convenient and Easy-to-Use Machine Tool...

Hyundai WIA take operator convenience to a higher level with the new controller, HYUNDAI-iTROL.

Experience the new operating environment with HYUNDAI-iTROL.

# Controller



Dynamic servo control, highly efficient Siemens servo drive and Siemens servo motor with durability and quick response have been applied.

## iTROL Convenient Function

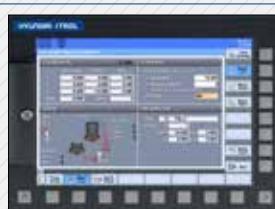
### Smart System operation preparation

When power is on, HYUNDAI-iTROL gives the worker instructions to do warm-up. HYUNDAI-iTROL also informs the worker of machine problems beforehand by showing current machine status.



### Quick & Easy Machining Support

The three essential operations for machining are program check, tool measurement and coordinates system setup. HYUNDAI-iTROL provides three operations in consecutive order to prevent error and to enable quick and easy setup.



### Tool & Spindle Monitoring

Tool and spindle monitoring can be easily done with a simple operation. This helps with tool management, spindle protection and factory automation.



## iTROL Technology

### COMMUNICATION FUNCTION



Easy input/output of programs is possible with the use of USB memory card, CF memory card and LAN.



You can use energy saving function (ECO) and machining optimization function (SMART) with the MCP button.



# User Convenience



Various Devices for User Convenience

## Bar Feeder System

### Bar Feeder

Bar feeder system enables automation which leads to efficiency improvement.

|                  |               |
|------------------|---------------|
| Long Type        | 3 m (118.1")  |
| Max Bar Capacity | Ø42 mm (1.7") |
| Short Type       | 1.5 m (59.1") |
| Max Bar Capacity | Ø65 mm (2.6") |



### Parts Conveyor

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



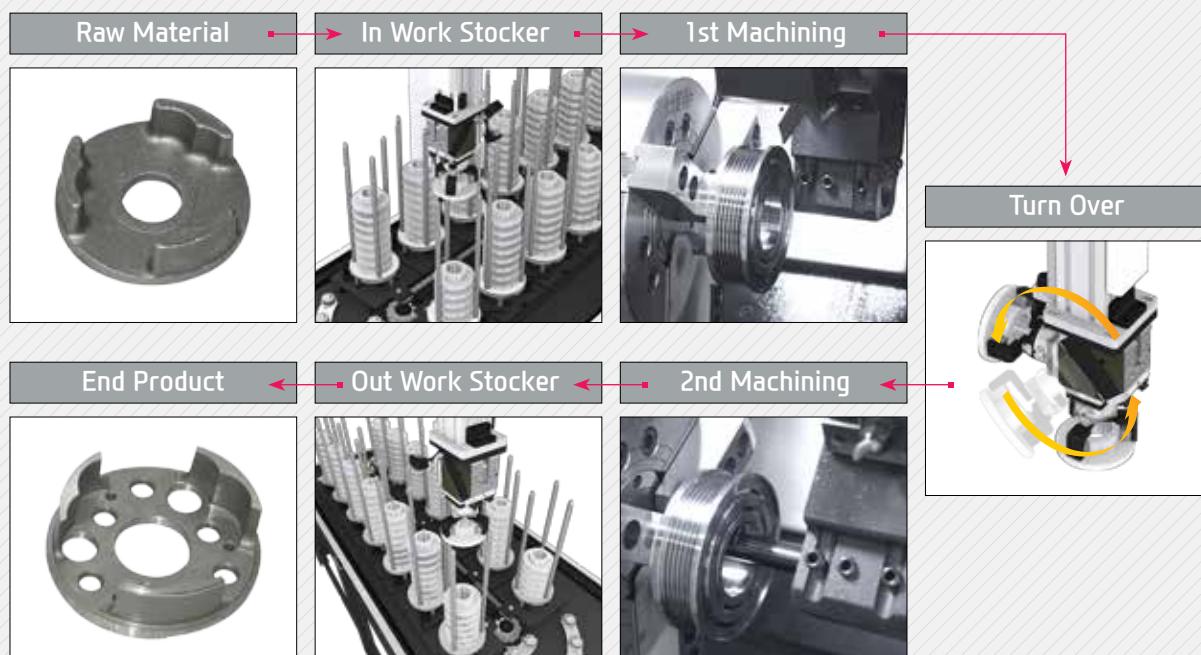
Optional

### 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.



# SPECIFICATIONS

## Standard & Optional

| Spindle   |                                | L280    | L280L   | L280LM  |
|---|--------------------------------|---------|---------|---------|
| Main Spindle                                      | 10"                            | ●       | ●       | ●       |
| Hollow Chuck 3 Jaw                                | 12"                            | ○       | ○       | ○       |
| Main Spindle                                      | 10"                            | ☆       | ☆       | ☆       |
| Solid Chuck 3 Jaw                                 | 12"                            | ☆       | ☆       | ☆       |
| 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              |                                | ○(CE:●) | ○(CE:●) | ○(CE:●) |
| 2 Steps Chuck Foot Switch                         |                                | ○       | ○       | ○       |
| <b>Turret</b>                                     |                                |         |         |         |
| Tool Holder                                       |                                | ●       | ●       | ●       |
| 10 station Turret                                 |                                | ●       | ●       | -       |
| 12 station Turret                                 |                                | ○       | ☆       | ●       |
| Mill Turret                                       | VDI                            | -       | -       | ●       |
| Straight Milling Head (Axial)                     | Collet Type,2ea                | -       | -       | ●       |
| Angular Milling Head (Radial)                     | Collet Type,2ea                | -       | -       | ●       |
| Straight Milling Head (Axial)                     | Adapter Type                   | -       | -       | -       |
| Angular Milling Head (Radial)                     | Adapter Type                   | -       | -       | -       |
| Boring Sleeve                                     |                                | ●       | ●       | ●       |
| Drill Socket                                      |                                | ●       | ●       | ●       |
| U-Drill Holder                                    |                                | ○       | ○       | ○       |
| U-Drill Holder Sleeve                             |                                | ○       | ○       | ○       |
| O.D Extension Holder                              | For Out-Dia                    | ☆       | ☆       | -       |
| Angle Head  |                                | -       | -       | ☆       |
| <b>Tail Stock &amp; Steady Rest</b>               |                                |         |         |         |
| Quill Type Tail Stock                             |                                | ●       | ●       | ●       |
| Built in Tail Stock                               |                                | ○       | ○       | -       |
| Programable Tail Stock                            |                                | ○       | ○       | ○       |
| Manual Type Steady Rest                           |                                | ☆       | ☆       | ☆       |
| Manual Type Hyd. Steady Rest                      |                                | ○       | ○       | ○       |
| Standard Live Center                              |                                | ●       | ●       | ●       |
| 2 Steps Tail Stock Pressure System                |                                | ☆       | ☆       | ☆       |
| Quill Forward/Reverse Confirmation Device         |                                | ○(CE:●) | ○(CE:●) | ○(CE:●) |
| Tail Stock Foot Switch                            |                                | ●       | ●       | ●       |
| <b>Coolant &amp; Air Blow</b>                     |                                |         |         |         |
| Standard Coolant (Nozzle)                         |                                | ●       | ●       | ●       |
| Chuck Coolant (Upper Chuck)                       |                                | ○       | ○       | ○       |
| Gun Coolant                                       |                                | ○       | ○       | ○       |
| Through Spindle Coolant (Only for Special Chuck)  |                                | ☆       | ☆       | ☆       |
| Chuck Air Blow (Upper Chuck)                      |                                | ○       | ○       | ○       |
| Tail Stock Air Blow (Upper Tail Stock)            |                                | ○       | ○       | ○       |
| Turret Air Blow                                   |                                | ☆       | ☆       | ☆       |
| Air Gun   |                                | ○       | ○       | ○       |
| Through Spindle Air Blow (Only for Special Chuck) |                                | ○       | ○       | ○       |
| High Pressure Coolant                             | 0.4Bar (5.8psi)                | ●       | ●       | ●       |
|   | 1.5Bar (21.7psi)               | ○       | ○       | ○       |
|   | 14.5Bar (210.2psi)             | ○       | ○       | ○       |
|   | 20Bar (290psi)                 | ○       | ○       | ○       |
| Power Coolant System (For Automation)             |                                | ☆       | ☆       | ☆       |
| Coolant Chiller                                   |                                | ☆       | ☆       | ☆       |
| <b>Chip Disposal</b>                              |                                |         |         |         |
| Coolant Tank                                      | 180 l (47.6 gal)               | ●       | -       | -       |
|   | 200 l (52.8 gal)               | -       | ●       | ●       |
| 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

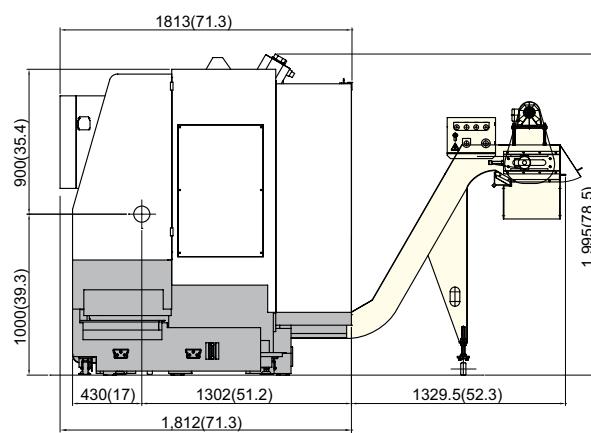
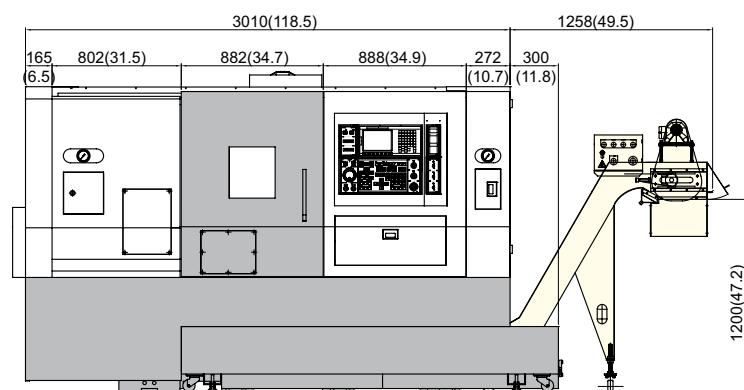
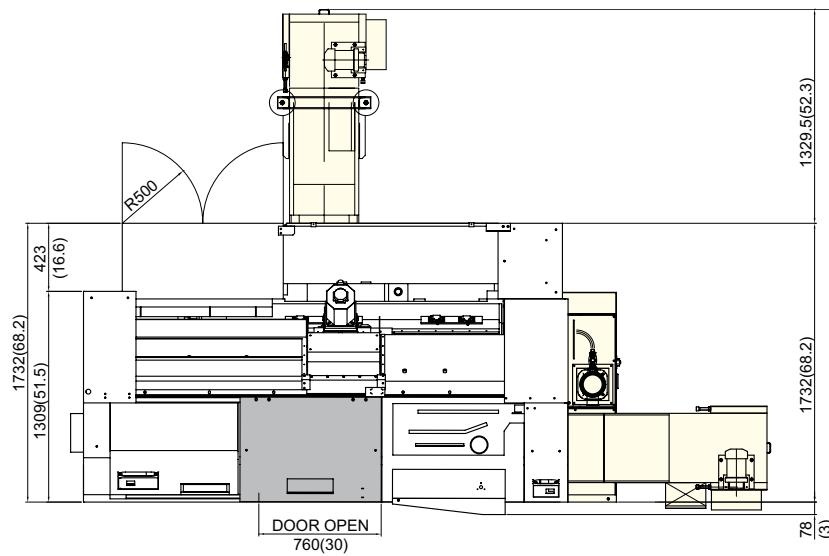
| Safety Device                                  |                                      | L280     | L280L   | L280LM  |
|--|--------------------------------------|----------|---------|---------|
| Total Splash Guard                             |                                      | ●        | ●       | ●       |
| Chuck hydraulic pressure maintenance interlock | ○(CE:●)                              | ○(CE:●)  | ○(CE:●) | ○(CE:●) |
| <b>Electric Device</b>                         |                                      |          |         |         |
| Call Light                                     | 1Color : ■                           | ●        | ●       | ●       |
| Call Light                                     | 2Color : ■■                          | ○        | ○       | ○       |
| Call Light                                     | 3Color : ■■■                         | ○        | ○       | ○       |
| 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                                    | 30kVA                                | ○        | ○       | ○       |
| Auto Power Off                                 |                                      | ○        | ○       | ○       |
| <b>Measurement</b>                             |                                      |          |         |         |
| Q-Setter                                       |                                      | ●        | ●       | ●       |
| Automatic Q-Setter                             |                                      | ○        | ○       | ○       |
| Work Close Confirmation Device                 | TACO<br>(Only for Special Chuck)     | ○<br>SMC | ○<br>○  | ○<br>○  |
| Work Setter (REANISHAW/MARPOSS)                |                                      | ○        | ○       | ☆       |
| Linear Scale                                   | X axis                               | -        | -       | -       |
|  | Z axis                               | ☆        | ☆       | ☆       |
| Coolant Level Sensor (Only for Chip Conveyor)  |                                      | ☆        | ☆       | ☆       |
| <b>Environment</b>                             |                                      |          |         |         |
| Air Conditioner                                | FANUC<br>ITROL/SIEMENS               | ○<br>●   | ○<br>●  | ○<br>●  |
| Oil Mist Collector                             |                                      | ☆        | ☆       | ☆       |
| Oil Skimmer (Only for Chip Conveyor)           |                                      | ○        | ○       | ○       |
| MQL (Minimal Quantity Lubrication)             |                                      | ☆        | ☆       | ☆       |
| <b>Fixture &amp; Automation</b>                |                                      |          |         |         |
| Auto Door                                      |                                      | ○        | ○       | ○       |
| Auto Shutter (Only for Automatic System)       |                                      | ☆        | ☆       | ☆       |
| Sub Operation Pannel                           |                                      | ☆        | ☆       | ☆       |
| Bar Feeder Interface                           |                                      | ○        | ○       | ○       |
| Bar Feeder (FEDEK)                             |                                      | ☆        | ☆       | ☆       |
| workpusher (Spring type)                       |                                      | ○        | ○       | ○       |
| Extra M-Code 4ea                               |                                      | ○        | ○       | ○       |
| Automation Interface                           |                                      | ☆        | ☆       | ☆       |
| I/O Extension (IN & OUT)                       | 16 Contact<br>32 Contact             | ○<br>○   | ○<br>○  | ○<br>○  |
| Parts Catcher                                  | MAIN SP.                             | ○        | ○       | ○       |
| Turret Work Pusher (For Automation)            |                                      | ☆        | ☆       | ☆       |
| Parts Conveyor                                 |                                      | ☆        | ☆       | ☆       |
| <b>Hyd. Device</b>                             |                                      |          |         |         |
| Standard Hyd. Cylinder                         | Hollow                               | ●        | ●       | ●       |
| Standard Hyd. Unit                             | 35bar (507.6 psi)/<br>20 l (5.3 gal) | ●        | ●       | ●       |
| <b>S/W</b>                                     |                                      |          |         |         |
| Machine Guidance (HW-MCG)                      |                                      | ☆        | ☆       | ☆       |
| Energy Saving System (HW-ESS)                  |                                      | ●        | ●       | ●       |
| Tool Monitoring (HW-TM)                        |                                      | ○        | ○       | ○       |
| DNC software (HW-eDNC)                         |                                      | ○        | ○       | ○       |
| Machine Monitoring System (HW-MMS)             |                                      | ☆        | ☆       | ☆       |
| Conversational Program (HW-DPRO)               |                                      | ○        | ○       | ○       |
| <b>ETC</b>                                     |                                      |          |         |         |
| Tool Box                                       |                                      | ●        | ●       | ●       |
| Customized Color                               | Need Mansel No.                      | ☆        | ☆       | ☆       |
| CAD & CAM                                      |                                      | ☆        | ☆       | ☆       |

# SPECIFICATIONS

## External Dimensions

unit : mm(in)

L280

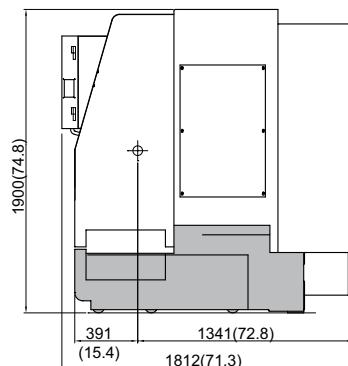
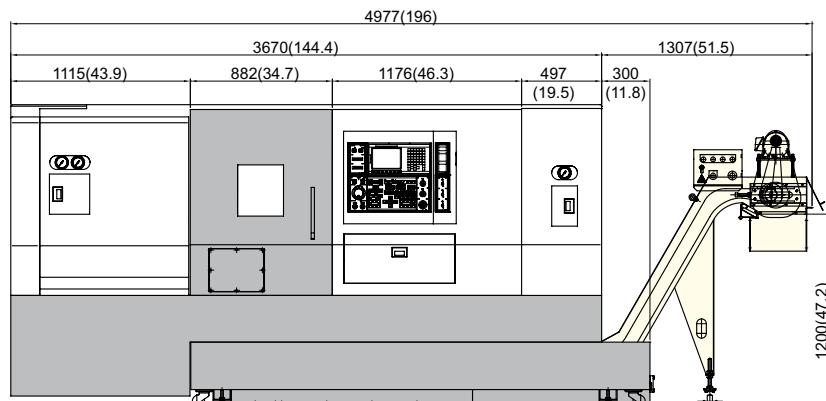
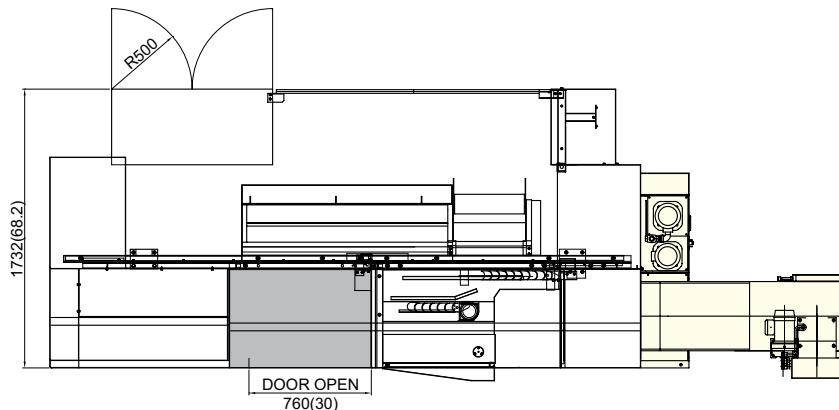


# SPECIFICATIONS

## External Dimensions

unit : mm(in)

L280L/LM

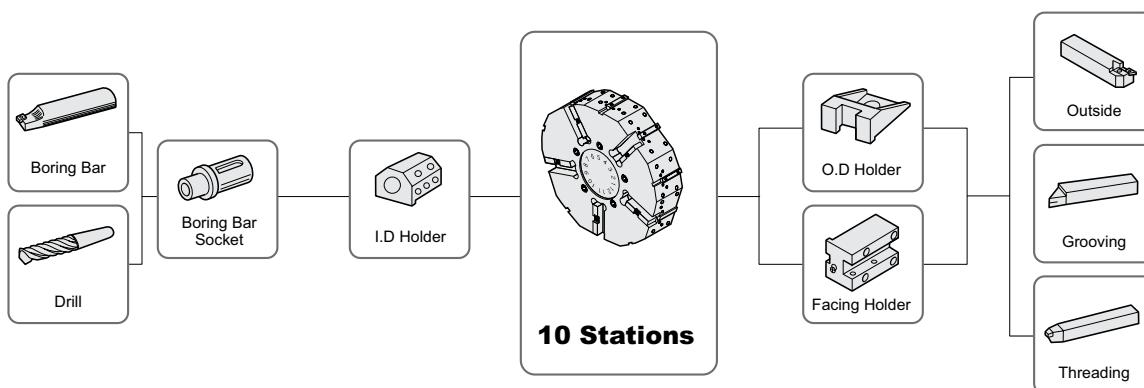


# SPECIFICATIONS

## Tooling System

unit : mm(in)

### L280/L



## Tooling Parts Detail

| ITEM           |                      |               | L280/L  |           |
|----------------|----------------------|---------------|---------|-----------|
|                |                      |               | mm Unit | inch Unit |
| Turning Holder | O.D Holder           | Right/Left    | 1       | 1         |
|                | Facing Holder        |               | 1       | 1         |
| Boring Holder  | I.D Holder           | Single        | 3       | 3         |
| Driven Holder  | Straight Mill Holder | Standard      | -       | -         |
|                | Angular Mill Holder  | Standard      | -       | -         |
| Socket         | Boring               | Ø20 (Ø3/4")   | 1       | 1         |
|                |                      | Ø32 (Ø1 1/4") | 1       | 1         |
|                | Drill                | MT 2          | 1       | 1         |
|                |                      | MT 3          | 1       | 1         |
|                |                      | MT 4          | 1       | 1         |
|                | ER Collet            |               | -       | -         |

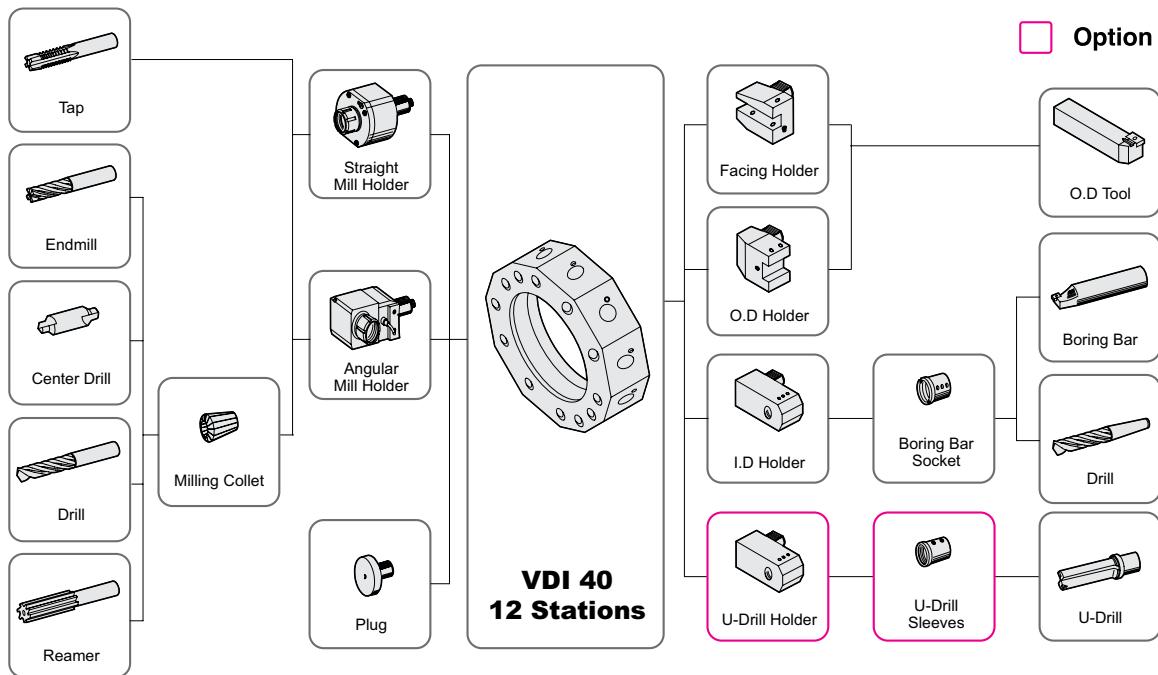
Specifications are subject to change without notice for improvement.

# SPECIFICATIONS

## Tooling System

unit : mm(in)

### L280LM



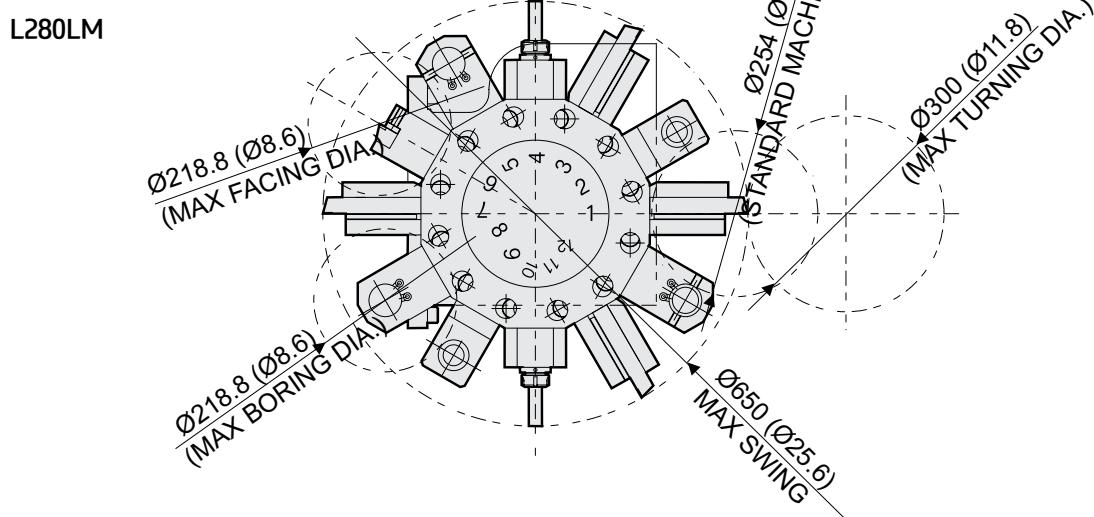
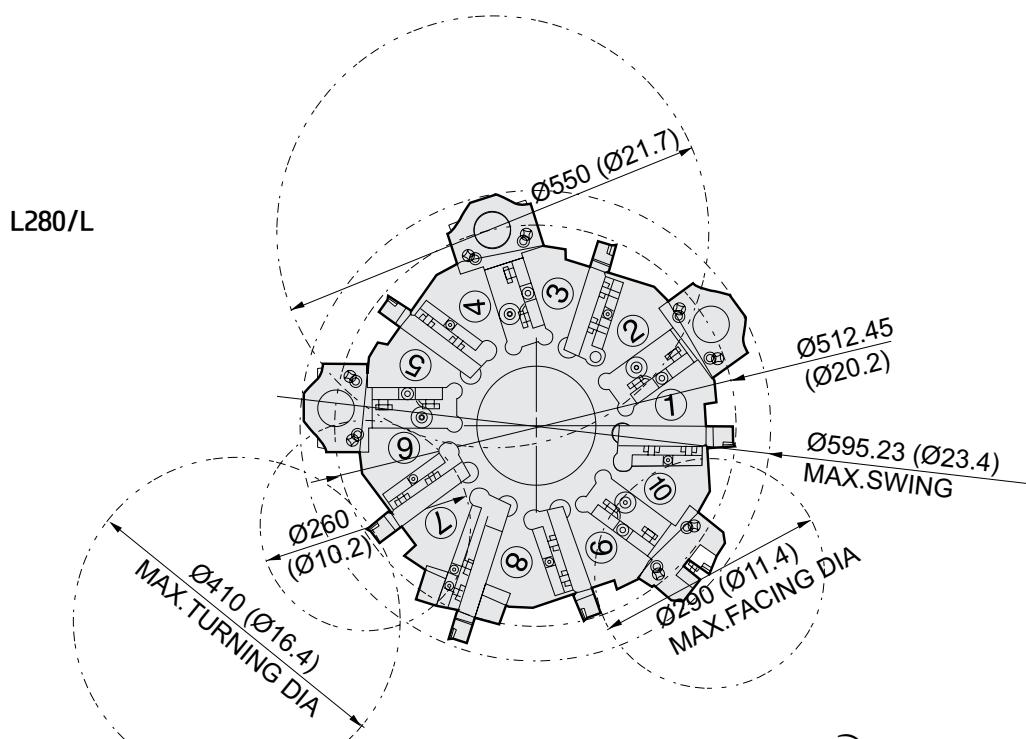
## Tooling Parts Detail

| ITEM           |                      |               | L280LM  |           |
|----------------|----------------------|---------------|---------|-----------|
|                |                      |               | mm Unit | inch Unit |
| Turning Holder | O.D Holder           | Right/Left    | 4       | 4         |
|                | Facing Holder        |               | 1       | 1         |
| Boring Holder  | I.D Holder           | Single        | 3       | 3         |
| Driven Holder  | Straight Mill Holder | Standard      | 2       | 2         |
|                | Angular Mill Holder  | Standard      | 2       | 2         |
| Socket         | Boring               | Ø16 (Ø5/8")   | 1       | -         |
|                |                      | Ø20 (Ø3/4")   | 1       | 1         |
|                |                      | Ø25 (Ø1")     | 1       | 1         |
|                |                      | Ø32 (Ø1 1/4") | 1       | 1         |
|                |                      | Ø40 (Ø1 1/2") | 1       | 1         |
|                |                      | Ø45 (Ø1 3/4") | -       | 1         |
|                | Drill                | MT 1 x MT 2   | 1       | 1         |
|                |                      | MT 2          | 1       | 1         |
|                |                      | MT 3          | 1       | 1         |
|                | ER Collet            |               | 1 Set   | 1 Set     |

# SPECIFICATIONS

Interference

unit : mm(in)

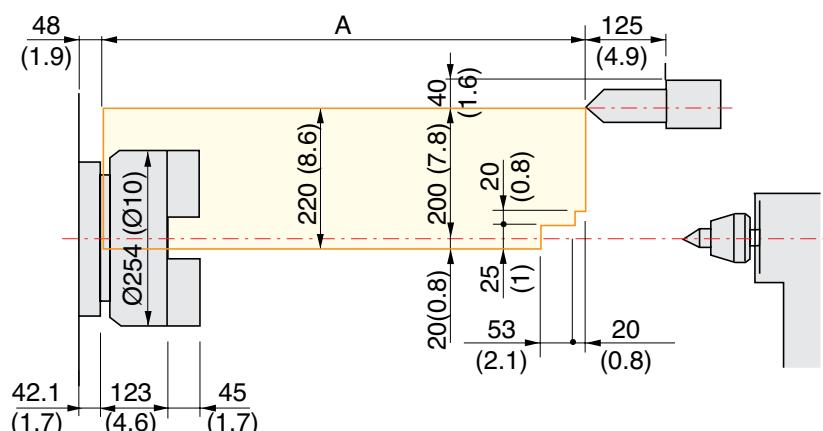
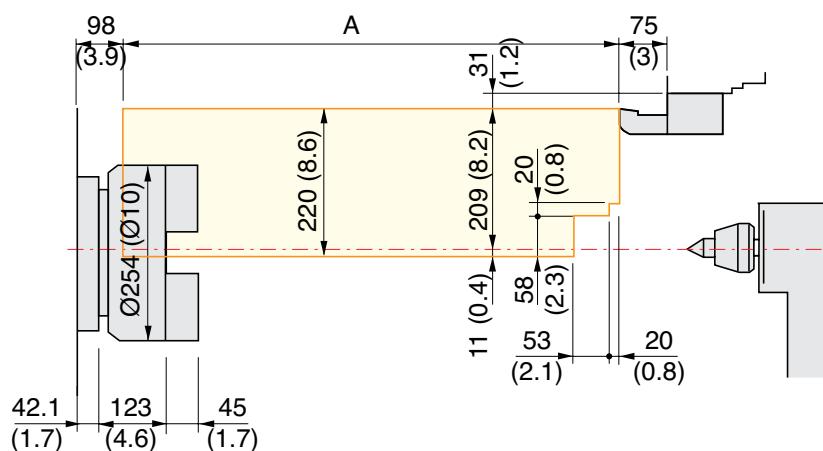
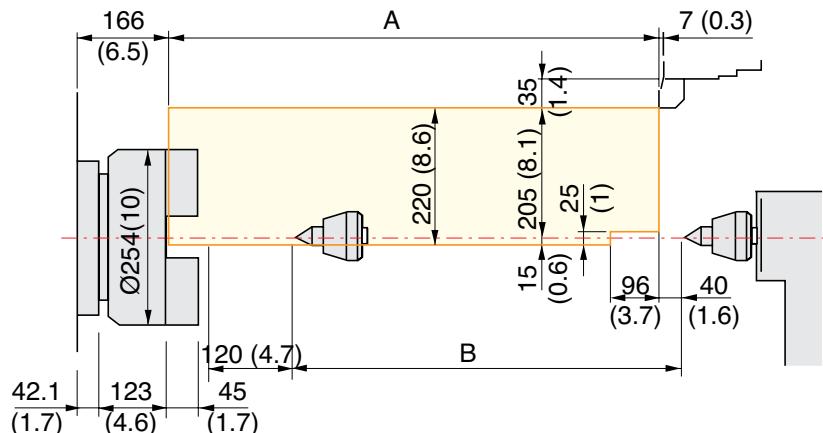


# SPECIFICATIONS

## Tooling Travel Range

unit : mm(in)

L280/L



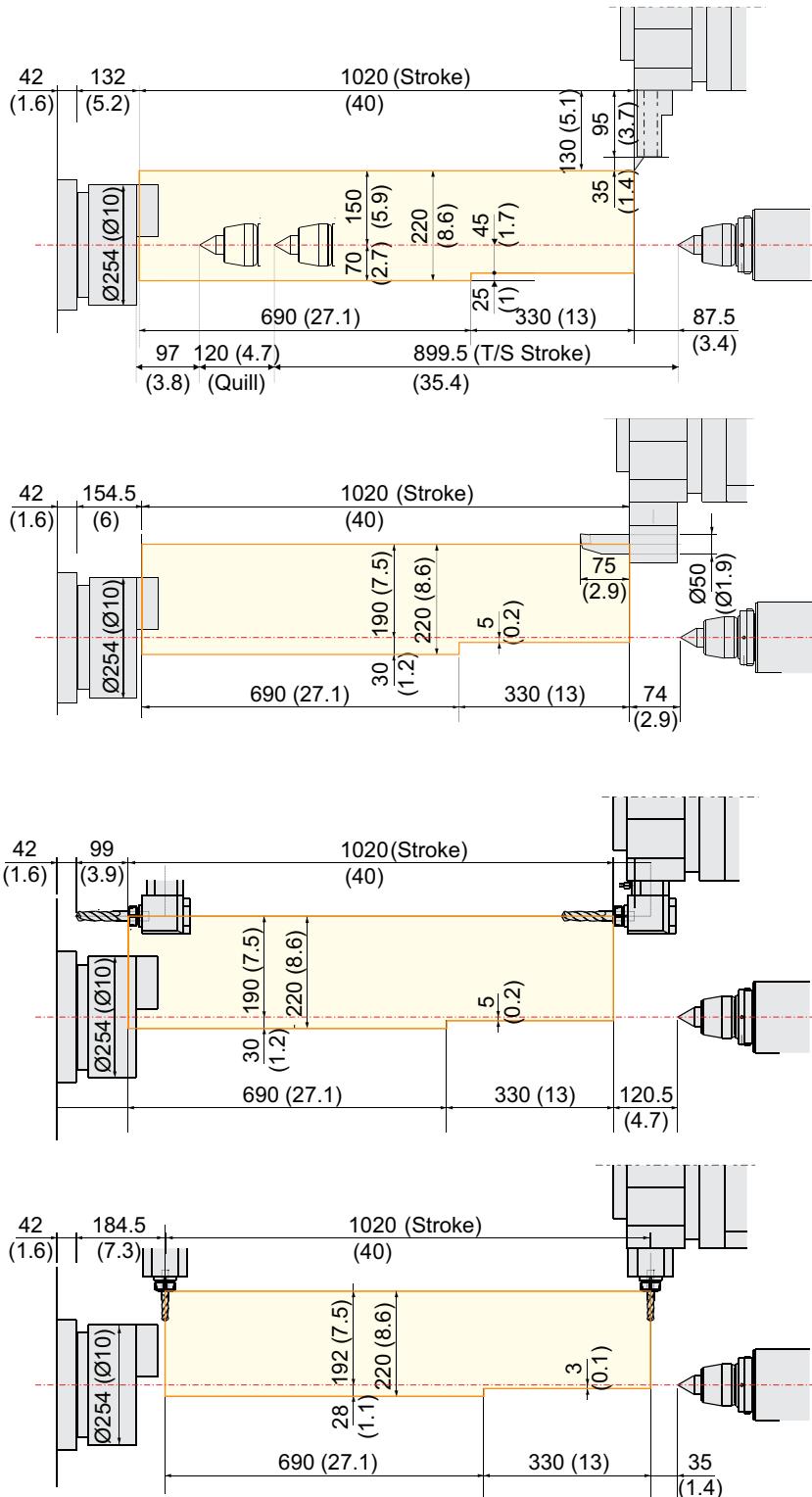
- ◆ A - L280 : 750 mm (29.5")    L280L : 1,100 mm (43.3")
- ◆ B - L280 : 570 mm (22.4")    L280L : 920 mm (36.2")

# SPECIFICATIONS

## Tooling Travel Range

unit : mm(in)

L280LM



HYUNDAI WIA  
MACHINE TOOL

L280 SERIES  
CNC TURNING CENTER

22  
+  
23

# SPECIFICATIONS

## Specifications

[ ] : Option

| ITEM          |                           | L280        | L280L  | L280LM   |
|---------------|---------------------------|-------------|--|--|
| CAPACITY      | Swing Over the Bed        | mm(in)      | Ø590 (23.2")   | Ø650 (25.6")   |
|               | Swing Over the Carriage   | mm(in)      | Ø375 (14.8")   | Ø415 (16.3")   |
|               | Max. Turning Dia.         | mm(in)      | Ø410 (16.1")   | Ø300 (11.8")   |
|               | Max. Turning Length       | mm(in)      | 720 (28.3")  | 1,070 (42.1")  |
|               | Bar Capacity              | mm(in)      | Ø76 (3")   |  |
| SPINDLE       | Chuck Size                | inch        | 10"  |  |
|               | Spindle Bore              | mm(in)      | Ø95 (3.7")   |  |
|               | Spindle Speed (rpm)       | r/min       | 3,000 [3,000]  | 3,500 [3,500]  |
|               | Motor (Max/Cont.)         | kW(HP)      | 22/18.5 (29.5/24.8)<br>[33.6/28 (45/37.5)]                             | 22/18.5 (29.5/24.8)<br>[33.6/28 (45/37.5)]             |
|               | Torque (Max/Cont.)        | N·m(lbf·ft) | 729.5/613.5 (538/452.5)<br>[641.4/534.5 (473/394.2)]                   | 493.2/414.7 (363.8/305.9)<br>[433/360.8 (319.4/266.1)] |
|               | Spindle Type              | -           | BELT   |  |
|               | Spindle Nose              | -           | A2-8   |  |
|               | C-axis Indexing           | deg         | -  | 0.001°   |
| FEED          | Travel (X/Z/B)            | mm(in)      | 220/750 (8.7"/29.5")   | 220/1,100 (8.7"/43.3")                                 |
|               | Rapid Traverse Rate (X/Z) | m/min(ipm)  | 25/30 (984/1,181)  |  |
|               | Slide Type                | -           | LM GUIDE   |  |
| TURRET        | No. of Tools              | EA          | 10   | 12   |
|               | Tool Size                 | OD          | Ø25 (1")   |  |
|               |                           | ID          | Ø50 (2")   |  |
|               | Indexing Time             | sec/step    | 0.3  |  |
| LIVE TOOL     | Motor (Max/Cont.)         | kW(HP)      | -  | 5.5/3.7 (7.4/5)  |
|               | 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                      | -           | -  | VDI40  |
| TAIL STOCK    | Taper                     | -           | MT#5   |  |
|               | Quill Dia.                | mm(in)      | Ø100 (3.9")  |  |
|               | Quill Travel              | mm(in)      | 120 (4.7")   |  |
|               | Travel                    | mm(in)      | 570 (22.4")  | 920 (36.2")  |
| TANK CAPACITY | Coolant Tank              | ℓ (gal)     | 180 (47.6)   | 200 (52.8)   |
|               | Lubricating Tank          | ℓ (gal)     | 1.8 (0.5)  |  |
| POWER SUPPLY  | Electric Power Supply     | kVA         | 24   | 27   |
|               | Thickness of Power Cable  | Sq          | Over 25  |  |
|               | Voltage                   | V/Hz        | 220/60 (200/50*)   |  |
| MACHINE       | Floor Space (L×W)         | mm(in)      | 3,010×1,812 (118.5"×71.3")   | 3,670×1,812 (144.5"×71.3")                             |
|               | Height                    | mm(in)      | 1,995 (78.5")  |  |
|               | Weight                    | kg(lb)      | 6,100 (13,448)   | 8,000 (17,637)   |
| NC            | Controller                | -           | HW FANUC Series [FANUC 32i-B] [L280/L : iTROL] [L280LM : SIEMENS 828D] |  |

\*) 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.

# CONTROLLER

## HYUNDAI WIA FANUC i Series

| Control function / Screen display               |  | Sub / Main spindle function   |
|---|--|---|
| Control axis number                             | Max. 4 Axis<br>X, Z axis<br>X, Z, C axis (M type machine)<br>X, Z, Y, C axis (Y type machine)<br>X, Z, B, C axis (MS type machine) | M-Code function<br>M-Code function lock<br>Lock sp. speed command<br>Main sp. constant control<br>Spindle speed override<br>Spindle position decision<br>Rigid tapping  |
| Simultaneous control axis number                | 2axes / Linear and circular (Max. 4axes)<br>X, Z, Y, B axis : 0.001mm (0.0001")<br>C axis : 0.001 deg.                             | Tool function<br>Tool offset quantity<br>Tool offset  |
| Min. input unit                                 | X, Z, Y, B axis : 0.001mm (0.0001")<br>C axis : 0.001 deg.   | Tool nose radius compensation<br>Configuration/wear compensation<br>Direct input of measuring tool compensation B<br>Tool life management   |
| Min. increment                                  | X, Z, Y, B axis : 0.001mm (0.0001")<br>C axis : 0.001 deg.   | Data input, output and editing function<br>Input/output interface<br>Memory card input and output<br>Program storing capacity<br>Program registration quantity<br>Memory lock<br>Background edit<br>Additional expandable edit<br>Screen, diagnosis and setting function<br>Self diagnosis function<br>Historic screen<br>Help function<br>Outside message<br>Operation time/counter display<br>Actual sp. speed, T code display<br>Actual machining feed rate display<br>Handling monitor screen<br>Graphic screen<br>Spindle/servo setting screen<br>Selection of random 5 EA<br>LCD screen save<br>Auto data backup<br>Function according with machine specification<br>Cs contouring control<br>Stored pitch error compensation<br>Polar coordinate interpolation<br>Cylindrical interpolation<br>Canned cycles for drilling<br>spindle orientation expansion<br>Spindle synchronous control<br>Torque control<br>Y axis offset<br>Angular axis control |
| High speed HRV control                          |  | Turn mill   |
| Inch/metric conversion                          | G20 / G21  | Turn mill   |
| Interlock                                       | Each axis / All axis   | Turn mill   |
| Machinelock                                     | Full axis  | Turn mill   |
| Emergency stop                                  |  | Turn mill   |
| Stroke check 1                                  | Over-travel  | Turn mill   |
| Stroke check 2                                  |  | Turn mill   |
| Stroke check 3                                  |  | Turn mill   |
| Follow up                                       |  | Turn mill   |
| Sub off   |  | Turn mill   |
| Backlash compensation                           | +/- 0~9999 Pulse<br>(Rapid traverse & cutting feed)  | Rod meter light   |
| Position switch                                 |  | Graphic screen  |
| Fault load detection                            | Back spin torque limiter (BST)   | Spindle orientation expansion   |
| High resolution transfer control (HRC)          |  | Spindle synchronous control   |
| LCD / MDI                                       | 8.4" Color LCD   | Torque control  |
| <b>Operation</b>                                |  | Y axis offset   |
| Auto handling (memory)                          |  | Angular axis control  |
| MDI handling                                    |  |   |
| Search function                                 | Sequence, Program  |   |
| Program re-start                                |  |   |
| Preventive function for mis-handling            |  |   |
| Buffer registration                             |  |   |
| Program check function                          | Dry run, Program check   |   |
| Single block                                    |  |   |
| <b>Feed function</b>                            |  |   |
| Manual jog feed                                 | Rapid transfer, Jog, Handle  |   |
| Manual Handle Scale                             | x1, x10, x100  |   |
| Feed command                                    | Direct command for F code feed   |   |
| Feed override                                   | 0~200% (10% units)   |   |
| Jog override                                    | 0~2,000 mm/min [79 ipm]  |   |
| Rapid transfer override                         | F1, F5, F25 / F50, F100%   |   |
| Override release                                |  |   |
| Transfer/minute, transfer/rpm                   |  |   |
| <b>Program input and interpolation function</b> |  |   |
| Pano interpolation                              | Positioning/Straight/Arc<br>(G00/G01/G02/G03)  |   |
| Dwell function                                  | G04, 0~9999.9999 sec   |   |
| Threading retract                               |  |   |
| Variable lead threading                         |  |   |
| Return of first zero point                      | G28, manual  |   |
| Decimal number entering                         |  |   |
| Plain selection                                 | G17, G18, G19  |   |
| Work coordinate selection                       | G52 to G59   |   |
| Manual absolute                                 | "ON" fixed   |   |
| Drawing dimension direct input programming      | Included chamfering / Corner R'  |   |
| G code system                                   | A/B/C  |   |
| Programmable data input                         | G10  |   |
| Sub program call                                | 10 folds nested  |   |
| Custom macro B                                  |  |   |
| Custom macro variable addition                  | #100 to #199, #500 to #999   |   |
| Multiple repetitive cycles                      |  |   |
| Multiple repetitive cycles II                   |  |   |
| Lathe fixed cycle                               |  |   |

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

| 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)<br>C, A axes : 0.001 deg                                  |
| Least input increment                             | X, Z, Y, B axes : 0.001 mm (0.0001 inch)<br>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<br>(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                                  |  |
| <b>Operation</b>                                  |  |
| 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   |
| <b>Interpolation functions</b>                    |  |
| Nano interpolation                                |  |
| Positioning                                       | G00  |
| Linear interpolation                              | G01  |
| Circular interpolation                            | G02, G03   |
| Exact stop mode                                   | Single : G09, Continuous : G61   |
| Dwell   | G04, 0 ~ 9999.999 sec  |
| Skip  | G31  |
|   | 1st reference : G28  |
| Reference position return                         | 2nd reference : G30<br>Ref. position check : G27   |
| Thread synchronous cutting                        |  |
| Thread cutting retract                            |  |
| Variable lead thread cutting                      |  |
| Multi / Continuous threading                      |  |
| <b>Feed function / Acc. &amp; Dec. control</b>    |  |
|   | Rapid traverse   |
| Manual feed                                       | Jog : 0~2.000 mm/min (79 ipm)<br>Manual handle : x1, x10, x100 pulses<br>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  |
| <b>Program input</b>                              |  |
| 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 (± 99,999.999 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                       | G41  |
| Multiple repetitive cycles I, II                  |  |

| [ ] : Option                                       |   |
|--|---|
| <b>Program input</b>                               |   |
| Canned cycle for turning                           |   |
| Manual Guide i                                     | Conversational auto program   |
| <b>Auxiliary function / Spindle speed function</b> |   |
| 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  |
| <b>Tool function / Tool compensation</b>           |   |
| 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                  |   |
| <b>Editing function</b>                            |   |
| 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                           |   |
| <b>Data input / Output &amp; Interface</b>         |   |
| I/O interface                                      | RS 232C serial port, CF card, USB memory<br>Embedded Ethernet interface |
| Screen hard copy                                   |   |
| External message                                   |   |
| External key input                                 |   |
| External workpiece number search                   |   |
| Automatic data backup                              |   |
| <b>Setting, display and diagnosis</b>              |   |
| 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)  |
| <b>Function for machine type</b>                   |   |
| 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  |
| <b>Option</b>                                      |   |
| 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.

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

# CONTROLLER

## HYUNDAI-iTROL (L280/280L)

| 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                    |   |
| Addition of part program on CF card                         |                                  |   |
| Transfer Function   |                                  | Safety Function   |
| Feedrate override   | 0% ~ 200%                        | Safe torque off (STO)   |
| Transfer value input range                                  | ± 99999999                       | Safe brake control (SBC)  |
| Unlimited rotation of rotation axis                         |                                  | Safe stop 1 (SS1)   |
| Acc./Dec. with jerk limitation                              |                                  |   |
| Measuring systems 1 and 2, selectable                       |                                  |   |
| Travel to fixed stop  |                                  |   |
| Auto servo drive tuning                                     |                                  |   |
| Spindle Function  |                                  | Diagnostic Function   |
| Spindle override  | 0% ~ 150%                        | Alarm/Message , Alarm log   |
| Spindle speed, max. programmable value range                | 1000000 ~ 0.0001                 | PLC status/LAD online display                                     |
| Automatic gear stage selection                              |                                  | PLC remote connection (Ethernet)                                  |
| Spindle orientation   |                                  |   |
| Spindle speed limitation                                    |                                  |   |
| Rigid tapping   |                                  |   |
| Spindle control with PLC                                    |                                  |   |
| Interpolation   |                                  | Automation Support Function                                       |
| Linear interpolation axis, max.                             | 4 axis                           | Actual velocity display   |
| Circle via center point and end point                       |                                  | Tool life management  |
| Circle via interpolation point                              |                                  | Work counter/Cycle time   |
| Helical interpolation                                       |                                  | 2D simulation   |
| Non-uniform rational B splines                              |                                  |   |
| Continuous - path mode with programmable rounding clearance |                                  |   |
| Program Function  |                                  | Manual Operation  |
| Subroutine levels, max.                                     | 7                                | Manual handle/Jog transfer  |
| Interrupt routines, max.                                    | 2                                | Manual measurement of workpiece / tool offset                     |
| Number of levels for skip blocks                            | 2                                | Automatic tool/Workpiece measurement                              |
| Polar Coordinates   |                                  | Automatic/Program reference approach                              |
| 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   |                                  | Language  |
| Tool radius compensations                                   |                                  | Chinese Simplified, English, Korean                               |
| Tool offset selection via T/D numbers                       |                                  |   |
| Tools / Cutting edges in tool list                          | 128 / 256, 256 / 512             |   |
| Monitoring Function   |                                  | Option  |
| Working area limit  |                                  | Maximum skip block number   |
| Software and Hardware limit                                 |                                  | 10  |
| Zero-speed/Clamping monitoring                              |                                  | DRF offset  |
| 2D/3D protection zones                                      |                                  | MDI program save/load   |
| Contour monitoring  |                                  | 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 |

Figures in inch are converted from metric values. | Specifications are subject to change without notice for improvement.

# CONTROLLER

## SIEMENS 828D (L280LM)

| Control function   |   | Program function  |
|--|---|---|
| Max. configuration of axis                                       | 3 axis(MS / SY exception)<br>4 axis(MS / SY machine only) | 3MB (MS / SY exception) PPU26x.x<br>5MB (MS / SY machine only) PPU28x.x   |
| Max. configuration of axis and sp.                               | 6 axis(MS / SY exception)<br>8 axis(MS / SY machine only) | Program Name<br>23 digit  |
| Least Command/input  | 0.0001mm / 0.00001inch                                    | Subroutine Call<br>(7 level)  |
| <b>Feed function</b>   |   | Absolute/Incremental Command<br>G90 - G91   |
| Feedrate Override  | 0 - 120%  | Scaling, ROT  |
| Rapid Traverse Override  | F1, 5, 25/50, 100%  | Inch / Metric Conversion  |
| Acceleration with jerk limitation                                |   | Conversational Cycle Program<br>(22 Machine)  |
| Programmable acceleration  |   | Block Search  |
| Follow-up mode   |   | Variable Program (Macro)  |
| Measuring system 1 and 2, selectable                             |   | Read / Write System Variable  |
| Separate path feed for corners and chamfers                      |   | BackGround Editing  |
| Travel to fixed stop   |   | Miscellaneous Functions   |
| <b>Spindle function</b>  |   | M - Code  |
| Spindle Override   | 50% - 120%  | Table Skip  |
| Spindle Orientation  |   | Program Stop/End  |
| Spindle Speed Limitation   |   | Lookahead , Jerk LimitationFeed<br>& forward control  |
| Rigid Tapping  |   | ISO Dialect Interpreter(G291)<br>(Fanuc Program exe)  |
| <b>Interpolation function</b>                                    |   | Maximum number of tools/cuttings<br>128/256 (MS / SY exception) PPU26x.x<br>256/512 (MS / SY machine only) PPU28x.x                     |
| Linear interpolation axis  | Max. 4 axis   | Number of levels for skip blocks 1  |
| Circle via center point and end point                            |   | <b>Protection Function</b>  |
| Circle via interpolation point                                   |   | Emergency Stop  |
| Helical interpolation  |   | Over Travel   |
| Universal interpolator NURBS<br>(non-uniform rational B splines) |   | Contour Monitoring  |
| Continuous-path mode with programmable<br>rounding clearance     |   | Program Protection  |
| <b>Tool function</b>   |   | <b>Automation Support Fun.</b>  |
| Tool Radius Comp.  |   | Actual Speed Display(Monitor)   |
| Zero Offset (G54, G55, G56, G57 ,G58, G59)                       | 100 EA  | Tool Life Management  |
| Programmable Zero Offset   |   | Work Count Function   |
| Tool management  |   | <b>Language Function</b>  |
| <b>Display</b>   |   | (6EA)   |
| CRT / MDI  | 10.4" Color LCD   | Chinese Traditional, Czech, Danish,<br>Dutch, Finnish, Hungarian, Japanese,<br>Korean, Polish, Russian, Swedish,<br>Portuguese, Turkish |
| SCREEN SAVER   |   |   |
| <b>Manual Operation</b>  |   | <b>Data Transfer</b>  |
| Manual Handle/Jog Feed   |   | RS 232C I/F / Ethernet  |
| Reposition   |   | USB Memory Stick & CF Card  |
| Reference Approach   | Ref 1, 2 Approach   |   |
| Spindle Control  | Start, Stop, Rev, Jog, Ort.                               | <b>Option</b>   |
| <b>Auto Operation</b>  |   | Shop Turn   |
| Single Block   |   | 3D Simulation   |
| Feed Hold  |   | DRF offset  |
| Optional Block Skip  |   | Teach -in   |
| Machine Lock   |   | Number of levels for skip blocks 8  |
| Dry Run  |   | TRACYL (Cylinder interpolation)   |
| Simulation   | (2 dimensional)   | TRANSMIT (Pole coordinate command)  |
| <b>Diagnosis function</b>  |   | Sister Tool   |
| Alarm Display  |   | A,B,C SPLINE INTERPOLATION  |
| Spindle Load Meter/RPM Meter (monitor)                           |   | RCS HOST (Remote Control)   |
| PLC status/LAD display   |   | Simultaneous Recording (Real time monitoring)   |
|  |   | Analysis of Internal Drive Values   |
|  |   | Network Drive Management  |

Figures in inch are converted from metric values.

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

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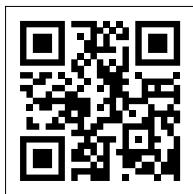
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L280 Movie



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