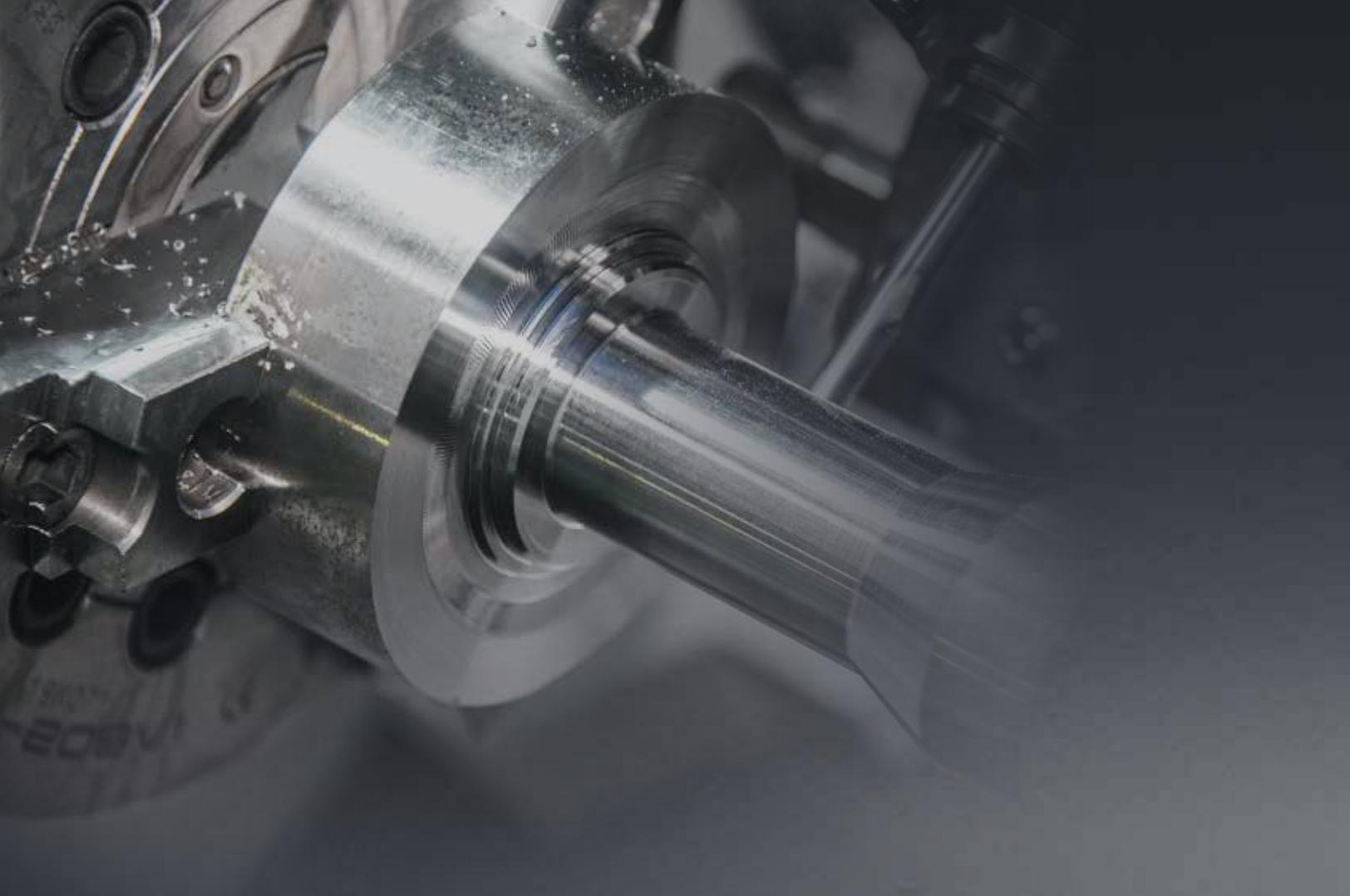


# Y Series

L2000Y Series | L2600Y Series | L3000Y Series

HYUNDAI WIA Multi-Tasking Y-Axis CNC Turning Center



# Technical Leader

The CNC Turning Center L-SY Series, designed with HYUNDAI WIA's engineering expertise to maximize productivity by enhancing rigidity and accuracy of machining.

| MODEL    | Main Chuck |     |     | Sub Chuck |    | Bed   |          |      |
|----------|------------|-----|-----|-----------|----|-------|----------|------|
|          | 8"         | 10" | 12" | 6"        | 8" | Short | Standard | Long |
| L2000Y   | ●          |     |     |           |    | ●     |          |      |
| L2000SY  | ●          |     |     | ●         |    | ●     |          |      |
| L2000LY  | ●          |     |     |           |    |       | ●        |      |
| L2000LSY | ●          |     |     | ●         |    |       | ●        |      |
| L2600Y   |            | ●   |     |           |    |       | ●        |      |
| L2600SY  |            | ●   |     | ●         | ○  |       | ●        |      |
| L2600LY  |            | ●   |     |           |    |       |          | ●    |
| L3000Y   |            |     | ●   |           |    |       | ●        |      |
| L3000SY  |            |     | ●   | ●         |    |       | ●        |      |
| L3000LY  |            |     | ●   |           |    |       |          | ●    |

●: Standard ○: Option



# Y Series

Lathe with Y-axis & Box Guideways for Heavy Cutting

- Cycle time reducing structure for maximum productivity
- Multi-tasking operation with wedge type Y-axis BMT65 turret
- Integrated processing through synchronized control of Main/Sub spindle ('S' Type)
- High performance heavy duty cutting enabled with box guideways
- Main/Sub Built-in Spindle application for high precision machining



# 01 BASIC STRUCTURE

Which Can Cover All Machining Process with Only One Initial Setting

## Mill Turret

- BMT65  
5,000 r/min,  $\varnothing 20$  ( $\varnothing 0.8$ ) {ER32}

## High Precision Spindle

- Integral body & heat dissipating RIB structure
- L2000Y Series : 8" / 5,000 [4,500] r/min
- L2600Y Series : 10" / 4,000 [3,500] r/min
- L3000Y Series : 12" / 3,000 [2,800] r/min
- C-Axis Control : 0.001°

## Sub Spindle

- Built-in : 6" [L2600SY 8"]
- Belt : [6"]
- C-Axis Control : 0.001°



## MT#5 Quill Tail Stock

The L-Y series is fitted with tailstocks as a standard for excellent machining quality. In addition, the travel distance of quill can be as long as 120mm(4.7"), thus expanding the support area.

(NC tail stock can be moved separately, providing convenience during workpiece setup. : Option)

# REDUCTION OF NON-CUTTING TIME BY FAST RAPID SPEED

## ALL-IN-ONE TYPE OF BED

### High Precision & Rigidity, One-Piece Structure

Designed with FEM(Finite Element Method) analysis, the L-Y Series has bed structure of 30° slope to improve machining accuracy and cutting ability. In addition, increased bed installation area improves vibration absorption and machining stability.



## GUIDEWAY

### Box Guideway

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

### Ball Screw

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

### Rapid Traverse Rate (X/Y/Z)

**30/10/30** m/min (1,181/294/1,181/1,181 ipm)

### Travel (X/Y/Z)

L2000Y/SY

**265/120/590** mm  
(10.4"/4.7"/23.2")

L2600Y/SY | L3000Y/SY

**265/120/830** mm  
(10.4"/4.7"/32.7")

L2000LY/LSY

**265/120/830** mm  
(10.4"/4.7"/32.7")

L2600LY | L3000LY

**265/120/1,350** mm  
(10.4"/4.7"/53.1")



# 02 HIGH PRECISION SPINDLE

Long Lasting, High Accuracy & Excellent Performance CNC Turning Center

[ ] : 선택사항

## Main Spindle Specifications

[ ] : Option

| Model         | Spindle Speed        | Motor (Max./Cont.)      | Torque (Max./Cont.)                     | Chuck Size |
|---------------|----------------------|-------------------------|-----------------------------------------|------------|
| L2000Y Series | 5,000 rpm (Built-in) | 22/11 kW (30/15 HP)     | 358/301 N·m (264/222 lbft·ft)           | 8"         |
|               | [4,500 rpm (Belt)]   | [18.5/11 kW (25/15 HP)] | [314.2/186.2 N·m (231.7/137.3 lbft·ft)] |            |
| L2600Y Series | 4,000 rpm (Built-in) | 22/15 kW (30/20 HP)     | 599/409 N·m (441.8/301.7 lbft·ft)       | 10"        |
|               | [3,500 rpm (Belt)]   | [26/18.5 kW (35/25 HP)] | [733.7/522.1 N·m (541.1/385.1 lbft·ft)] |            |
| L3000Y Series | 3,000 rpm (Built-in) | 37/25 kW (50/33.5 HP)   | 1,262/1,003 N·m (930.8/739.8 lbft·ft)   | 12"        |
|               | [2,800 rpm (Belt)]   | [26/18.5 kW (35/25 HP)] | [1,123/664 N·m (828.2/489.7 lbft·ft)]   |            |

## Sub Spindle Specifications

[ ] : Option

| Model      | Spindle Speed          | Motor (Max./Cont.)      | Torque (Max./Cont.)                | Chuck Size |
|------------|------------------------|-------------------------|------------------------------------|------------|
| L-Y Series | 6,000 rpm (Built-in)   | 15/11 kW (20/15 HP)     | 135/99.1 N·m (99.6/73.1 lbft·ft)   | 6"         |
|            | [4,500 rpm (Belt)]     | [11/5.5 kW (15/7.4 HP)] | [124/62.1 N·m (91.5/45.8 lbft·ft)] |            |
| L2600SY    | [5,000 rpm (Built-in)] | [22/15 kW (30/20 HP)]   | [221/159 N·m (163/117.3 lbft·ft)]  | 8"         |

# HEAVY DUTY CUTTING & HIGH ACCURACY

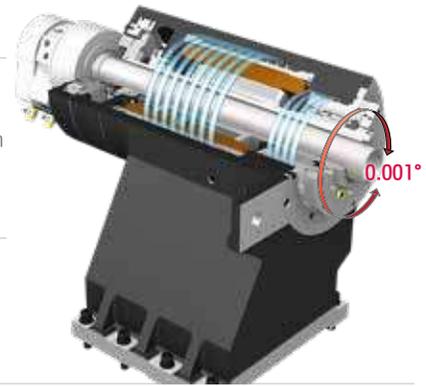
## SPINDLE

### Built-In Main Spindle

Built-in type spindle reduces noise, heat and vibration effectively at high speed rates. Also, rapid acc./deceleration reduces non-cutting time leading to higher productivity..

### C-Axis Control

C-axis of L-Y Series can be controlled to 0.001° which makes it possible to process various shapes.



### Built-In Sub Spindle ('S' Type)

The "S" Type built-in sub-spindle has 6" sub-chuck, which enlarges the machining area and improves the workability of the sub spindle with the C-axis control.

When the main spindle cutting is completed, the sub spindle rotation is synchronized with the main spindle allowing the workpiece to be transferred to the sub spindle, and machining can begin on the back side of the workpiece.



## BELT TYPE MAIN SPINDLE

OPTION

Belt type main spindle has a wide torque range and it is designed to minimize thermal displacement. This enables accurate machining during high speed constant processing.

The belt-type sub spindle with 6" chuck is designed to minimize thermal displacement during long duration continuous machining and from heavy-duty cutting to high-speed processing.



# 03 BMT TURRET

High speed, High Accuracy, Highly Reliable Servo Turret

## Mill Turret

[ ] : Option

| ITEM  | Speed                  | Motor (Max./Cont)     | Torque (Max./Cont)                 | Collet Size       |
|-------|------------------------|-----------------------|------------------------------------|-------------------|
| BMT65 | 5,000 rpm (FANUC)      | 5.5/1.5 kW (7.4/2HP)  | 47.1/33.7 N·m (34.7/24.9 lbf·ft)   | Ø20 (0.8") / ER32 |
|       | [5,000 rpm (Power Up)] | [7.5/1.5 kW (10/2HP)] | [95.5/33.7 N·m (70.4/24.9 lbf·ft)] |                   |

### No. of Tools

12<sub>EA</sub>

### Tool Size (O.D/I.D)

□ 25/Ø50<sub>mm</sub> (□ 1"/Ø2")

### Indexing Time

0.15<sub>sec</sub>

# VARIOUS DRIVEN PRECISION BMT TOOL HOLDERS

## TURRET

### BMT65 Turret

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

STRAIGHT MILLING HEAD



ANGULAR MILLING HEAD



### Mill Tool Holder

Machining capability has increased with the addition of straight milling head tool holder, which can machine workpieces from the side, and angular milling head tool holder, which can perform I.D. operations.



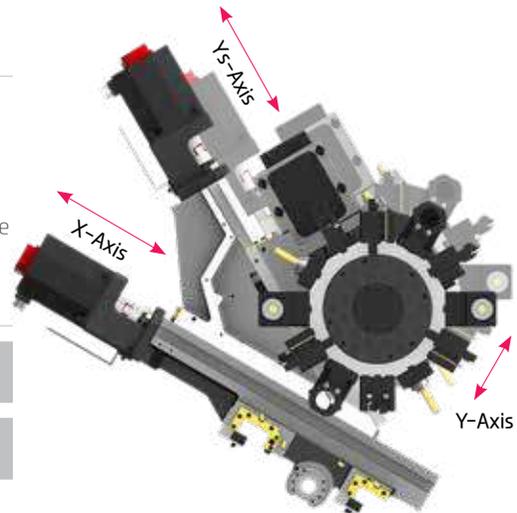
## Y-AXIS

### Wedge Type Y-Axis Structure

The L-Y Series is designed with a wedge type Y-axis that is transferred by the simultaneous operation of the Ys-axis and the X-axis. In addition, excellent rigidity makes it possible to perform superb quality when machining a heavy-duty cutting.

Y-axis Rapid Traverse Rate : 10 m/min

Y-axis Travel : 120 {±60} mm (4.7" {±2.4"})



### Special Tool

**OPTION**

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

❖ Consultation needed when ordering these options.

# 04 HYUNDAI WIA FANUC – Smart Plus

The Compatible All-round Control

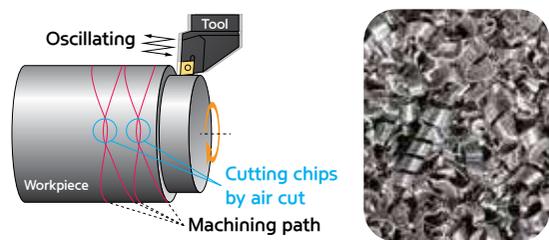


15" Touch-type Monitor as a standard

|                                      |                        |                         |
|--------------------------------------|------------------------|-------------------------|
| Fast Cycle Time Technology           | Smart Machine Control  | Fine Surface Technology |
| Smart Servo Control Technology       | Conversational Program | SmartGuide-i            |
| Machining-aid Function               | i-HMI                  | 5120M (2MB)             |
| No. of Registerable Programs 1000 EA | Part Program Storage   |                         |

## Servo Learning Oscillation Function for Chip Breaking **OPTION**

- Machining Method : he tool cuts the workpiece moving in a zigzag pattern. (Oscillating) → Air cut section occurs → Long chips break
- Advantage : Increase tool life, Enhance surface finishing, Improve chip disposal
- Machine : All turning centers with FANUC controller (Option)



(Developed special screen page for servo learning oscillation function / Even when this function is applied, the cycle time remains same.)

## MMS (Machine Monitoring System)



### MMS Cloud

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

Manufacturing big data solution with design, manufacturing, and intelligence technology of HYUNDAI-WIA (Big data collection/Analysis/Visualization)

## SMART CNC (FANUC Smart Plus)



### 1. Dialogue Program (Smart Guide-i)

This software offers the maximum user convenience through dialogue manipulation from setup to processing. This includes writing processing programs and simulation checks.

### 2. LAUNCHER

This software offers shortcuts for quick access to specialized features and frequently used features.

# SPECIFICATIONS

## Standard & Optional

| Spindle                                                          |                     | L2000Y/LY | L2000SY/LSY |
|------------------------------------------------------------------|---------------------|-----------|-------------|
| Main Spindle<br>Hollow Chuck 3 Jaw                               | 8"                  | ●         | ●           |
| Main Spindle<br>Solid Chuck 3 Jaw                                | 8"                  | ☆         | ☆           |
| Sub Spindle<br>Hollow Chuck 3 Jaw                                | 6"                  | -         | ●           |
| Sub Spindle<br>Solid Chuck 3 Jaw                                 | 6"                  | -         | ☆           |
| Standard Soft Jaw (1set)                                         |                     | ●         | ●           |
| Chuck Clamp Foot Switch                                          |                     | ●         | ●           |
| 2 Steps Hyd. Pressure Device                                     |                     | ○         | ○           |
| Spindle Inside Stopper                                           |                     | ☆         | ☆           |
| 5" Index                                                         |                     | ☆         | ☆           |
| Cs-Axis (0.001")                                                 |                     | ●         | ●           |
| 2 Steps Chuck Foot Switch                                        |                     | ○         | ○           |
| Chuck Open/Close Confirmation Device                             |                     | ○(CE:●)   | ○(CE:●)     |
| Sub Spindle Foot Switch                                          |                     | -         | ●           |
| <b>Turret</b>                                                    |                     |           |             |
| Tool Holder                                                      |                     | ●         | ●           |
| Mill Turret                                                      | BMT                 | ●         | ●           |
| Straight Milling Head                                            | Collet Type,2ea     | ●         | ●           |
| Angular Milling Head                                             | Collet Type,2ea     | ●         | ●           |
| Straight Milling Head                                            | Adapter Type        | ○         | ○           |
| Angular Milling Head                                             | 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>                              |                     |           |             |
| Programmable + Quill Tail Stock(MT#5)                            |                     | ●         | -           |
| Programmable + Built-in Tail Stock(MT#4)                         |                     | ○         | -           |
| NC Feed + Quill Tail Stock(MT#5)                                 |                     | ○         | -           |
| NC Feed + Built-in Tail Stock(MT#4)                              |                     | ○         | -           |
| Manual Hyd. Steady Rest                                          |                     | ☆         | ☆           |
| Programmable Hyd. Steady Rest                                    |                     | ○/☆       | ○/☆         |
| Standard Live Center                                             |                     | ●         | -           |
| High Precision Live Center                                       |                     | ○         | -           |
| 2 Steps Tail Stock Pressure System                               |                     | ☆         | -           |
| Quill Forward/Reverse Confirmation Device                        |                     | ○         | -           |
| <b>Coolant &amp; Air Blow</b>                                    |                     |           |             |
| Standard Coolant (Nozzle)                                        |                     | ●         | ●           |
| Chuck Coolant (Upper Chuck)                                      |                     | ○         | ○           |
| Gun Coolant                                                      |                     | ○         | ○           |
| Through Spindle Coolant (Only for Special Chuck)                 |                     | ☆         | ☆           |
| Turnmill Through Coolant                                         |                     | -         | -           |
| Chuck Air Blow (Upper Chuck)                                     |                     | ○         | ○           |
| Sub Spindle Air Blow                                             |                     | -         | ○           |
| Tail Stock Air Blow (Upper Tail Stock)                           |                     | ☆         | -           |
| Turret Air Blow                                                  |                     | ☆         | ☆           |
| Air Gun                                                          |                     | ○         | ○           |
| Through Spindle Air Blow (Only for Special Chuck)                |                     | ☆         | ☆           |
| High Pressure Coolant                                            | 6Bar (87psi)        | ●         | ●           |
|                                                                  | 20Bar (290psi)      | ○         | ○           |
|                                                                  | 70Bar (1,015psi)    | ○         | ○           |
| Power Coolant System (For Automation)                            |                     | ☆         | ☆           |
| Coolant Chiller<br>(When selecting Sub Tank Type, Chip Conveyor) |                     | ☆         | ☆           |
| <b>Chip Disposal</b>                                             |                     |           |             |
| Coolant Tank                                                     | 275 ℓ (72.6 gal)    | ●/-       | ●/-         |
|                                                                  | 290 ℓ (76.6 gal)    | -/●       | -/●         |
| Chip Conveyor<br>(Hinge/Scraper)                                 | Front (Right)       | ○         | ○           |
|                                                                  | Rear (Rear)         | -/○       | -/○         |
| Special Chip Conveyor (Drum Filter)                              |                     | ☆         | ☆           |
| Chip Wagon                                                       | Standard (180 ℓ)    | ○         | ○           |
|                                                                  | Swing(200 ℓ)        | ○         | ○           |
|                                                                  | Large Swing (290 ℓ) | ○         | ○           |
|                                                                  | Large Size (330 ℓ)  | ○         | ○           |
|                                                                  | Customized          | ☆         | ☆           |
| <b>Safety Device</b>                                             |                     |           |             |
| Total Splash Guard                                               |                     | ●         | ●           |
| Chuck hydraulic pressure maintenance interlock                   |                     | ○(CE:●)   | ○(CE:●)     |

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

| Electric Device                               |                        | L2000Y/LY | L2000SY/LSY |
|-----------------------------------------------|------------------------|-----------|-------------|
| 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                                   | 40kVA                  | ○         | -           |
|                                               | 40kVA (Belt)           | -         | ○           |
|                                               | 60kVA (Built-in)       | -         | ○           |
| Auto Power Off                                |                        | ○         | ○           |
| <b>Measurement</b>                            |                        |           |             |
| Manual 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) |                        | ☆         | ☆           |
| <b>Environment</b>                            |                        |           |             |
| Air Conditioner                               |                        | ○         | ○           |
| Oil Mist Collector                            |                        | ☆         | ☆           |
| Oil Skimmer (Only for Chip Conveyor)          |                        | ○         | ○           |
| MQL (Minimal Quantity Lubrication)            |                        | ☆         | ☆           |
| <b>Fixture &amp; Automation</b>               |                        |           |             |
| Auto Door                                     | High Speed             | ○         | ○           |
| Auto Shutter (Only for Automatic System)      |                        | ☆         | ☆           |
| Sub Operation Pannel                          |                        | ☆         | ☆           |
| Bar Feeder Interface                          |                        | ○         | ○           |
| Bar Feeder                                    |                        | ☆         | ☆           |
| Sub Sp. Work Eject (Pneumatic Type)           |                        | -         | ○           |
| Sub Sp. Work Pusher (Spring Type)             |                        | -         | ○           |
| Turret Work Pusher (For Automation)           |                        | ☆         | ☆           |
| Extra M-Code 4ea                              |                        | ○         | ○           |
| Automation Interface                          |                        | ☆         | ☆           |
| I/O Extension (IN & OUT)                      | 16 Contact             | ○         | ○           |
|                                               | 32 Contact             | ○         | ○           |
|                                               | Main SP.               | ○         | ○           |
| Parts Catcher                                 | Sub SP.                | -         | ○           |
| Parts Conveyor(Feed to Main Part Catcher)     |                        | ☆         | ☆           |
| Front Loading Semi Automation                 |                        | ☆         | ☆           |
| <b>Hyd. Device</b>                            |                        |           |             |
| Standard Hyd. Cylinder                        | Hollow                 | ●         | ●           |
| Standard Hyd. Unit                            | 35bar(507.6psi) / 14 ℓ | ●         | ●           |
| <b>S/W</b>                                    |                        |           |             |
| Dialogue Program (HW-DPRO) : FANUC            |                        | ○         | ○           |
| DNC software (HW-eDNC)                        |                        | ○         | ○           |
| Machine Monitoring System (HW-MMS Cloud)      |                        | ☆         | ☆           |
| Smart Guide-i : FANUC                         |                        | ●         | ●           |
| Smart S/W                                     |                        | ☆         | ☆           |
| <b>ETC</b>                                    |                        |           |             |
| 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. / Please refer to the S/W catalog (iRIS) for details by S/W product.

# SPECIFICATIONS

## Standard & Optional

| Spindle                                                          |                     | L2600Y/LY | L2600SY |
|------------------------------------------------------------------|---------------------|-----------|---------|
| Main Spindle<br>Hollow Chuck 3 Jaw                               | 10"                 | ●         | ●       |
| Main Spindle<br>Solid Chuck 3 Jaw                                | 10"                 | ☆         | ☆       |
| Sub Spindle<br>Hollow Chuck 3 Jaw                                | 6"<br>8"            | -<br>-    | ●<br>○  |
| Sub Spindle<br>Solid Chuck 3 Jaw                                 | 6"<br>8"            | -<br>-    | ☆<br>-  |
| Standard Soft Jaw (1set)                                         |                     | ●         | ●       |
| Chuck Clamp Foot Switch                                          |                     | ●         | ●       |
| 2 Steps Hyd. Pressure Device                                     |                     | ○         | ○       |
| Spindle Inside Stopper                                           |                     | ☆         | ☆       |
| 5° Index                                                         |                     | ☆         | ☆       |
| Cs-Axis (0.001°)                                                 |                     | ●         | ●       |
| 2 Steps Chuck Foot Switch                                        |                     | ○         | ○       |
| Chuck Open/Close Confirmation Device                             |                     | ○(CE:●)   | ○(CE:●) |
| Sub Spindle Foot Switch                                          |                     | -         | ●       |
| <b>Turret</b>                                                    |                     |           |         |
| Tool Holder                                                      |                     | ●         | ●       |
| Mill Turret                                                      | BMT                 | ●         | ●       |
| Straight Milling Head                                            | Collet Type,2ea     | ●         | ●       |
| Angular Milling Head                                             | Collet Type,2ea     | ●         | ●       |
| Straight Milling Head                                            | Adapter Type        | ○         | ○       |
| Angular Milling Head                                             | 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>                              |                     |           |         |
| Programmable + Quill Tail Stock(MT#5)                            |                     | ●         | -       |
| Programmable + Built-in Tail Stock(MT#4)                         |                     | ○         | -       |
| NC Feed + Quill Tail Stock(MT#5)                                 |                     | ○         | -       |
| NC Feed + Built-in Tail Stock(MT#4)                              |                     | ○         | -       |
| Manual Hyd. Steady Rest                                          |                     | ☆         | ☆       |
| Programmable Hyd. Steady Rest                                    |                     | ○/☆       | ☆       |
| Standard Live Center                                             |                     | ●         | -       |
| High Precision Live Center                                       |                     | ○         | -       |
| 2 Steps Tail Stock Pressure System                               |                     | ☆         | -       |
| Quill Forward/Reverse Confirmation Device                        |                     | ○         | -       |
| <b>Coolant &amp; Air Blow</b>                                    |                     |           |         |
| Standard Coolant (Nozzle)                                        |                     | ●         | ●       |
| Chuck Coolant (Upper Chuck)                                      |                     | ○         | ○       |
| Gun Coolant                                                      |                     | ○         | ○       |
| Through Spindle Coolant (Only for Special Chuck)                 |                     | ☆         | ☆       |
| Turnmill Through Coolant                                         |                     | -         | -       |
| Chuck Air Blow (Upper Chuck)                                     |                     | ○         | ○       |
| Sub Spindle Air Blow                                             |                     | -         | ○       |
| Tail Stock Air Blow (Upper Tail Stock)                           |                     | ☆         | -       |
| Turret Air Blow                                                  |                     | ☆         | ☆       |
| Air Gun                                                          |                     | ○         | ○       |
| Through Spindle Air Blow (Only for Special Chuck)                |                     | ☆         | ☆       |
| High Pressure Coolant                                            | 6Bar (87psi)        | ●         | ●       |
|                                                                  | 20Bar (290psi)      | ○         | ○       |
|                                                                  | 70Bar (1,015psi)    | ○         | ○       |
| Power Coolant System (For Automation)                            |                     | ☆         | ☆       |
| Coolant Chiller<br>(When selecting Sub Tank Type, Chip Conveyor) |                     | ☆         | ☆       |
| <b>Chip Disposal</b>                                             |                     |           |         |
| Coolant Tank                                                     | 290 ℓ (76.6 gal)    | ●/-       | ●       |
|                                                                  | 320 ℓ (84.5 gal)    | -/●       | -       |
| Chip Conveyor<br>(Hinge/Scraper)                                 | Front (Right)       | ○         | ○       |
|                                                                  | Rear (Rear)         | ○         | ○       |
| Special Chip Conveyor (Drum Filter)                              |                     | ☆         | ☆       |
| Chip Wagon                                                       | Standard (180 ℓ)    | ○         | ○       |
|                                                                  | Swing(200 ℓ)        | ○         | ○       |
|                                                                  | Large Swing (290 ℓ) | ○         | ○       |
|                                                                  | Large Size (330 ℓ)  | ○         | ○       |
|                                                                  | Customized          | ☆         | ☆       |
| <b>Safety Device</b>                                             |                     |           |         |
| Total Splash Guard                                               |                     | ●         | ●       |
| Chuck hydraulic pressure maintenance interlock                   |                     | ○(CE:●)   | ○(CE:●) |

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

| Electric Device                               |                        | L2600Y/LY | L2600SY |
|-----------------------------------------------|------------------------|-----------|---------|
| 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                                   | 40KVA                  | ○         | -       |
|                                               | 45kVA (Belt)           | -         | ○       |
|                                               | 60KVA (Built-in)       | -         | ○       |
| Auto Power Off                                |                        | ○         | ○       |
| <b>Measurement</b>                            |                        |           |         |
| Manual 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) |                        | ☆         | ☆       |
| <b>Environment</b>                            |                        |           |         |
| Air Conditioner                               |                        | ○         | ○       |
| Oil Mist Collector                            |                        | ☆         | ☆       |
| Oil Skimmer (Only for Chip Conveyor)          |                        | ○         | ○       |
| MQL (Minimal Quantity Lubrication)            |                        | ☆         | ☆       |
| <b>Fixture &amp; Automation</b>               |                        |           |         |
| Auto Door                                     | High Speed             | ○         | ○       |
| Auto Shutter (Only for Automatic System)      |                        | ☆         | ☆       |
| Sub Operation Panel                           |                        | ☆         | ☆       |
| Bar Feeder Interface                          |                        | ○         | ○       |
| Bar Feeder                                    |                        | ☆         | ☆       |
| Sub Sp. Work Eject (Pneumatic Type)           |                        | -         | ○       |
| Sub Sp. Work Pusher (Spring Type)             |                        | -         | ○       |
| Turret Work Pusher (For Automation)           |                        | ☆         | ☆       |
| Extra M-Code 4ea                              |                        | ○         | ○       |
| Automation Interface                          |                        | ☆         | ☆       |
| I/O Extension (IN & OUT)                      | 16 Contact             | ○         | ○       |
|                                               | 32 Contact             | ○         | ○       |
| Parts Catcher                                 | Main SP.               | ○         | ○       |
|                                               | Sub SP.                | -         | ○       |
| Parts Conveyor(Need to Main Part Catcher)     |                        | ☆         | ☆       |
| Front Loading Semi Automation                 |                        | ☆         | ☆       |
| <b>Hyd. Device</b>                            |                        |           |         |
| Standard Hyd. Cylinder                        | Hollow                 | ●         | ●       |
| Standard Hyd. Unit                            | 35bar(507.6psi) / 14 ℓ | ●         | ●       |
| <b>S/W</b>                                    |                        |           |         |
| Dialogue Program (HW-DPRO) : FANUC            |                        | ○         | ○       |
| DNIC software (HW-eDNC)                       |                        | ○         | ○       |
| Machine Monitoring System (HW-MMS Cloud)      |                        | ☆         | ☆       |
| Smart Guide-i : FANUC                         |                        | ●         | ●       |
| Smart S/W                                     |                        | ☆         | ☆       |
| <b>ETC</b>                                    |                        |           |         |
| 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. / Please refer to the S/W catalog (IRIS) for details by S/W product.

# SPECIFICATIONS

## Standard & Optional

| Spindle                                                          |                     | L3000Y/LY | L3000SY |
|------------------------------------------------------------------|---------------------|-----------|---------|
| Main Spindle<br>Hollow Chuck 3 Jaw                               | 12"                 | ●         | ●       |
| Main Spindle<br>Solid Chuck 3 Jaw                                | 12"                 | ☆         | ☆       |
| Sub Spindle<br>Hollow Chuck 3 Jaw                                | 6"                  | -         | ●       |
| Sub Spindle<br>Solid Chuck 3 Jaw                                 | 6"                  | -         | ☆       |
| Standard Soft Jaw (1set)                                         |                     | ●         | ●       |
| Chuck Clamp Foot Switch                                          |                     | ●         | ●       |
| 2 Steps Hyd. Pressure Device                                     |                     | ○         | ○       |
| Spindle Inside Stopper                                           |                     | ☆         | ☆       |
| 5" Index                                                         |                     | ☆         | ☆       |
| Cs-Axis (0.001")                                                 |                     | ●         | ●       |
| 2 Steps Chuck Foot Switch                                        |                     | ○         | ○       |
| Chuck Open/Close Confirmation Device                             |                     | ○(CE:●)   | ○(CE:●) |
| Sub Spindle Foot Switch                                          |                     | -         | ●       |
| <b>Turret</b>                                                    |                     |           |         |
| Tool Holder                                                      |                     | ●         | ●       |
| Mill Turret                                                      | BMT                 | ●         | ●       |
| Straight Milling Head (Radial)                                   | Collet Type,2ea     | ●         | ●       |
| Angular Milling Head (Axial)                                     | Collet Type,2ea     | ●         | ●       |
| Straight Milling Head (Radial)                                   | Adapter Type        | ○         | ○       |
| Angular Milling Head (Axial)                                     | Adapter Type        | ○         | ○       |
| Boring Sleeve                                                    |                     | ●         | ●       |
| Drill Socket                                                     |                     | ●         | ●       |
| U-Drill Holder                                                   |                     | ○         | ○       |
| U-Drill Holder Sleeve                                            |                     | ○         | ○       |
| O.D Extension Holder                                             | For Out-Dia         | ☆         | ☆       |
| Angle Head                                                       |                     | ☆         | ☆       |
| <b>Tail Stock &amp; Steady Rest</b>                              |                     |           |         |
| Programmable + Quill Tail Stock(MT#5)                            |                     | ●         | -       |
| Programmable + Built-in Tail Stock(MT#4)                         |                     | ○         | -       |
| NC Feed + Quill Tail Stock(MT#5)                                 |                     | ○         | -       |
| NC Feed + Built-in Tail Stock(MT#4)                              |                     | ○         | -       |
| Manual Hyd. Steady Rest                                          |                     | ☆         | ☆       |
| Programmable Hyd. Steady Rest                                    |                     | ○/☆       | ☆       |
| Standard Live Center                                             |                     | ●         | -       |
| High Precision Live Center                                       |                     | ○         | -       |
| 2 Steps Tail Stock Pressure System                               |                     | ☆         | -       |
| Quill Forward/Reverse Confirmation Device                        |                     | ○         | -       |
| <b>Coolant &amp; Air Blow</b>                                    |                     |           |         |
| Standard Coolant (Nozzle)                                        |                     | ●         | ●       |
| Chuck Coolant (Upper Chuck)                                      |                     | ○         | ○       |
| Gun Coolant                                                      |                     | ○         | ○       |
| Through Spindle Coolant (Only for Special Chuck)                 |                     | ☆         | ☆       |
| Turnmill Through Coolant                                         |                     | -         | -       |
| Chuck Air Blow (Upper Chuck)                                     |                     | ○         | ○       |
| Sub Spindle Air Blow                                             |                     | -         | ○       |
| Tail Stock Air Blow (Upper Tail Stock)                           |                     | ☆         | -       |
| Turret Air Blow                                                  |                     | ☆         | ☆       |
| Air Gun                                                          |                     | ○         | ○       |
| Through Spindle Air Blow (Only for Special Chuck)                |                     | ☆         | ☆       |
| High Pressure Coolant                                            | 6Bar (87psi)        | ●         | ●       |
|                                                                  | 20Bar (290psi)      | ○         | ○       |
|                                                                  | 70Bar (1,015psi)    | ○         | ○       |
| Power Coolant System (For Automation)                            |                     | ☆         | ☆       |
| Coolant Chiller<br>(When selecting Sub Tank Type, Chip Conveyor) |                     | ☆         | ☆       |
| <b>Chip Disposal</b>                                             |                     |           |         |
| Coolant Tank                                                     | 290 ℓ (76.6 gal)    | ●/-       | ●       |
|                                                                  | 320 ℓ (84.5 gal)    | -/●       | -       |
| Chip Conveyor<br>(Hinge/Scraper)                                 | Front (Right)       | ○         | ○       |
|                                                                  | Rear (Rear)         | ○         | ○       |
| Special Chip Conveyor (Drum Filter)                              |                     | ☆         | ☆       |
| Chip Wagon                                                       | Standard (180 ℓ)    | ○         | ○       |
|                                                                  | Swing(200 ℓ)        | ○         | ○       |
|                                                                  | Large Swing (290 ℓ) | ○         | ○       |
|                                                                  | Large Size (330 ℓ)  | ○         | ○       |
|                                                                  | Customized          | ☆         | ☆       |
| <b>Safety Device</b>                                             |                     |           |         |
| Total Splash Guard                                               |                     | ●         | ●       |
| Chuck hydraulic pressure maintenance interlock                   |                     | ○(CE:●)   | ○(CE:●) |

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

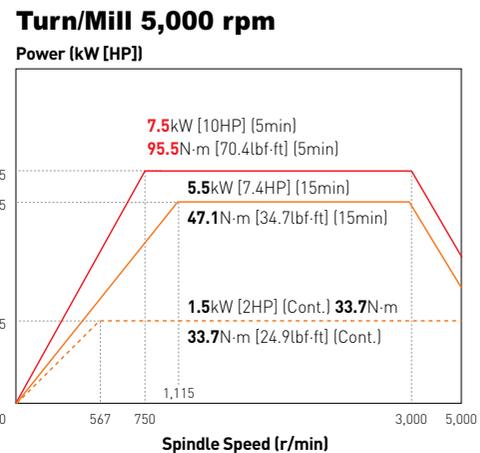
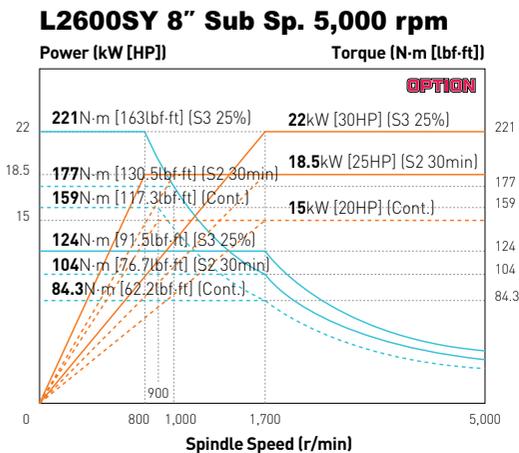
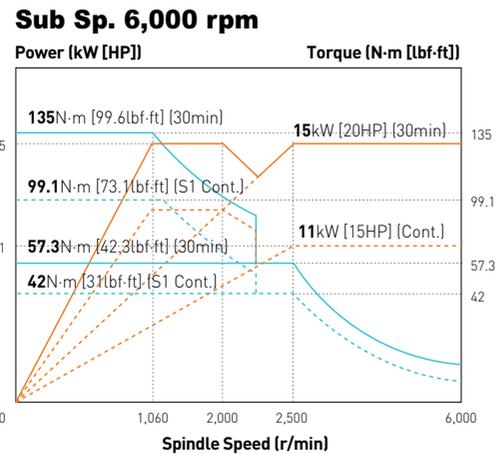
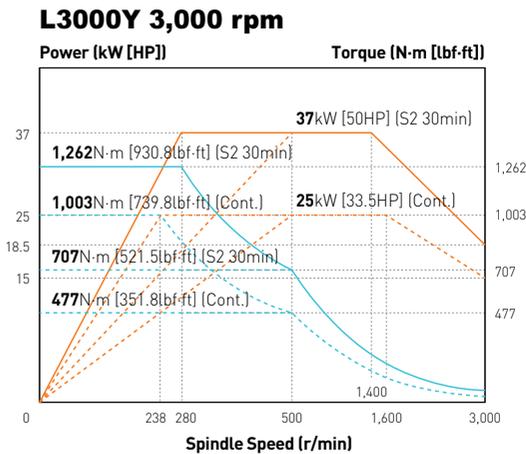
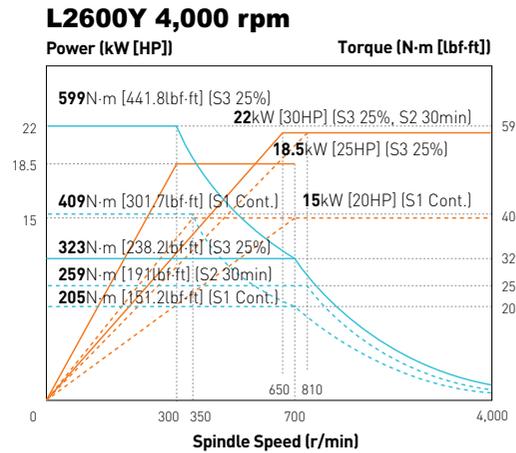
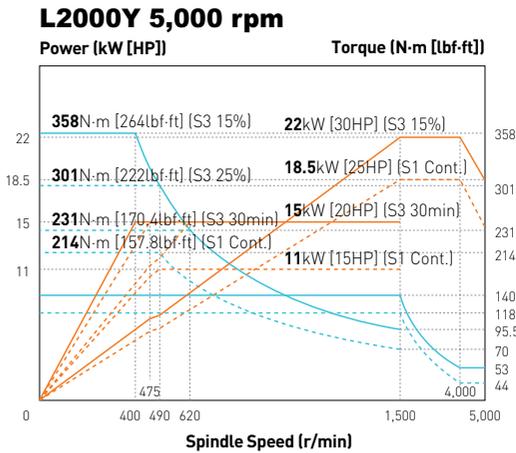
| Electric Device                               |                        | L3000Y/LY | L3000SY |
|-----------------------------------------------|------------------------|-----------|---------|
| Call Light                                    | 1Color : ●             | ●         | ●       |
| Call Light & 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                                   | 40kVA (Belt)           | ○         | -       |
|                                               | 50kVA (Built-in)       | ○         | -       |
|                                               | 45kVA (Belt)           | -         | ○       |
|                                               | 65kVA (Built-in)       | -         | ○       |
| Auto Power Off                                |                        | ○         | ○       |
| <b>Measurement</b>                            |                        |           |         |
| Manual 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) |                        | ☆         | ☆       |
| <b>Environment</b>                            |                        |           |         |
| Air Conditioner                               |                        | ○         | ○       |
| Oil Mist Collector                            |                        | ☆         | ☆       |
| Oil Skimmer (Only for Chip Conveyor)          |                        | ○         | ○       |
| MQL (Minimal Quantity Lubrication)            |                        | ☆         | ☆       |
| <b>Fixture &amp; Automation</b>               |                        |           |         |
| Auto Door                                     | High Speed             | ○         | ○       |
| Auto Shutter (Only for Automatic System)      |                        | ☆         | ☆       |
| Sub Operation Panel                           |                        | ☆         | ☆       |
| Bar Feeder Interface                          |                        | ○         | ○       |
| Bar Feeder                                    |                        | ☆         | ☆       |
| Sub Sp. Work Eject (Pneumatic Type)           |                        | -         | ○       |
| Sub Sp. Work Pusher (Spring Type)             |                        | -         | ○       |
| Turret Work Pusher (For Automation)           |                        | ☆         | ☆       |
| Extra M-Code 4ea                              |                        | ○         | ○       |
| Automation Interface                          |                        | ☆         | ☆       |
| I/O Extension (IN & OUT)                      | 16 Contact             | ○         | ○       |
|                                               | 32 Contact             | ○         | ○       |
| Parts Catcher                                 | Main SP.               | ○         | ○       |
|                                               | Sub SP.                | -         | ○       |
| Parts Conveyor(Feed to Main Part Catcher)     |                        | ☆         | ☆       |
| Front Loading Semi Automation                 |                        | ☆         | ☆       |
| <b>Hyd. Device</b>                            |                        |           |         |
| Standard Hyd. Cylinder                        | Hollow                 | ●         | ●       |
| Standard Hyd. Unit                            | 35bar(507.6psi) / 14 ℓ | ●         | ●       |
| <b>S/W</b>                                    |                        |           |         |
| Dialogue Program (HW-DPRO) : FA/PLC           |                        | ○         | ○       |
| DNC software (HW-eDNC)                        |                        | ○         | ○       |
| Machine Monitoring System (HW-MMS Cloud)      |                        | ☆         | ☆       |
| Smart Guide-i : FA/PLC                        |                        | ●         | ●       |
| Smart S/W                                     |                        | ☆         | ☆       |
| <b>ETC</b>                                    |                        |           |         |
| 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. / Please refer to the S/W catalog (iRIS) for details by S/W product.

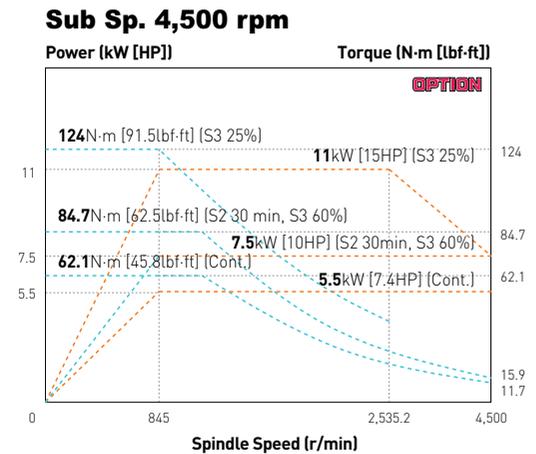
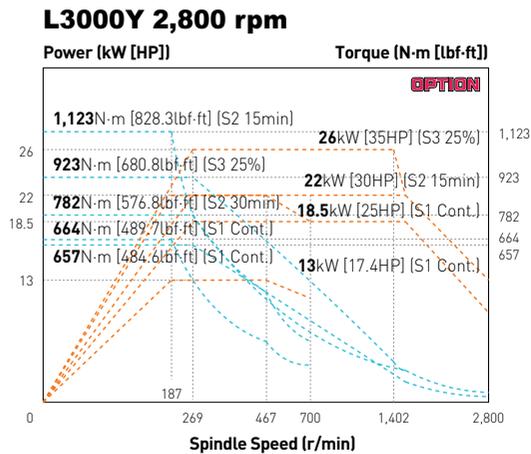
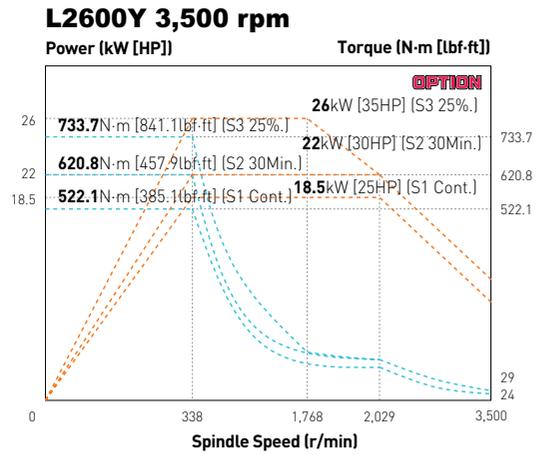
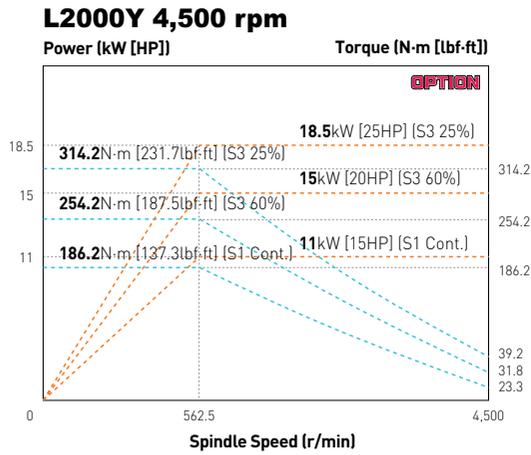
# SPECIFICATIONS

## Spindle Output/Torque Diagram



# SPECIFICATIONS

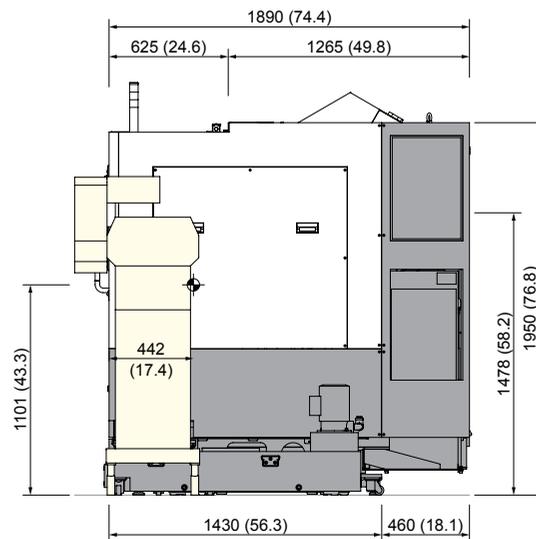
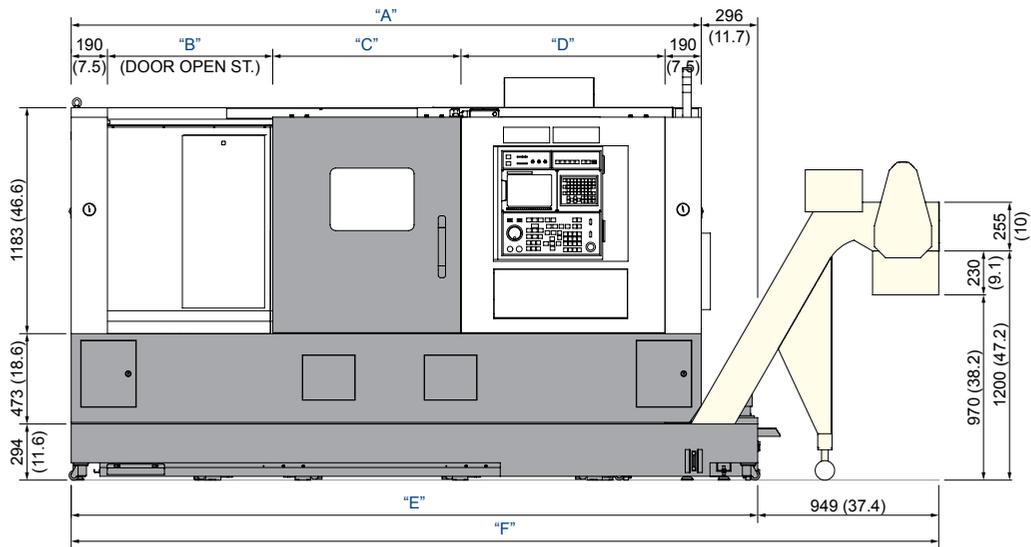
## Spindle Output/Torque Diagram



# SPECIFICATIONS

## External Dimensions

unit : mm(in)



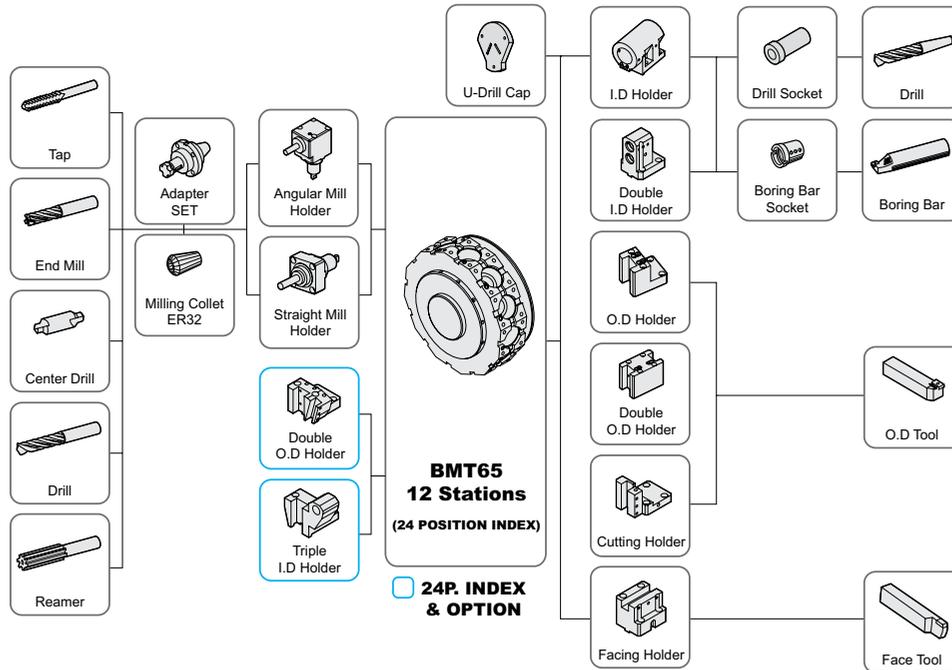
| ITEM | L2000SY/L2000Y | L2000LSY / L2000LY / L2600SY<br>L2600Y / L3000SY / L3000Y | L2600LY / L3000LY<br>(2 DOOR TYPE)   |
|------|----------------|-----------------------------------------------------------|--------------------------------------|
| "A"  | 2,974 (117.1") | 3,304 (130.1")                                            | 4,074 (160.4")                       |
| "B"  | 690 (27.2")    | 860 (33.9")                                               | 841 (33.1")-Left / 651 (25.6")-Right |
| "C"  | 847 (33.3")    | 987 (38.9")                                               | 987 (38.9")                          |
| "D"  | 1,030 (40.6")  | 1,070 (42.1")                                             | 663 (26.1")                          |
| "E"  | 3,280 (129.1") | 3,600 (141.7")                                            | 4,315 (169.9")                       |
| "F"  | 4,229 (166.5") | 4,549 (179.1")                                            | 5,315 (209.3")                       |



# SPECIFICATIONS

## Tooling System

unit : mm(in)



## Tooling Parts Detail

| ITEM           |                      |                    | Y Type (12P) |           | SY Type (12P) |           | SY Type (24P : Opt.) |           |
|----------------|----------------------|--------------------|--------------|-----------|---------------|-----------|----------------------|-----------|
|                |                      |                    | mm Unit      | inch Unit | mm Unit       | inch Unit | mm Unit              | inch Unit |
| Turning Holder | O.D Holder           | Right/Left         | 4            | 4         | 2             | 2         | 1                    | 1         |
|                |                      | Double             | -            | -         | 1             | 1         | 1                    | 1         |
|                |                      | Double (24P, Rear) | -            | -         | -             | -         | 1                    | 1         |
|                |                      | Double (24P)       | -            | -         | -             | -         | 1                    | 1         |
|                | Facing Holder        |                    | 1            | 1         | 1             | 1         | 1                    | 1         |
|                | Cutting Holder       |                    | -            | 1         | 1             | 1         | 1                    |           |
| Boring Holder  | I.D Holder           | Single             | 3            | 3         | 2             | 2         | 1                    | 1         |
|                |                      | Double             | -            | -         | 1             | 1         | -                    | -         |
|                |                      | Triple             | -            | -         | -             | -         | 1                    | 1         |
|                | U-Drill Holder       | Cap                | 1            | 1         | 1             | 1         | 1                    | 1         |
| Driven Holder  | Straight Mill Holder | Standard           | 2            | 2         | 2             | 2         | 2                    | 2         |
|                | Angular Mill Holder  | Standard           | 2            | 2         | 2             | 2         | 2                    | 2         |
| Socket         | Boring               | Ø16 (Ø5/8")        | 1            | -         | 1             | -         | 1                    | -         |
|                |                      | Ø20 (Ø3/4")        | 1            | 1         | 1             | 1         | 1                    | 1         |
|                |                      | Ø25 (Ø1")          | 1            | 1         | 1             | 1         | 1                    | 1         |
|                |                      | Ø32 (Ø1 1/4")      | 1            | 1         | 1             | 1         | 1                    | 1         |
|                |                      | Ø40 (Ø1 1/2")      | 1            | 1         | 1             | 1         | 1                    | 1         |
|                |                      | Ø45 (Ø1 3/4")      | -            | 1         | -             | 1         | -                    | 1         |
|                | Sub Boring           | Ø10 (Ø3/8")        | -            | -         | 1             | 1         | 1                    | 1         |
|                |                      | Ø12 (Ø1/2")        | -            | -         | 1             | 1         | 1                    | 1         |
|                |                      | Ø16 (Ø5/8")        | -            | -         | 1             | 1         | 1                    | 1         |
|                |                      | Ø20 (Ø3/4")        | -            | -         | 1             | 1         | 1                    | 1         |
|                | Drill                | MT 2               | 1            | 1         | 1             | 1         | 1                    | 1         |
|                |                      | MT 3               | 1            | 1         | 1             | 1         | 1                    | 1         |
|                |                      | MT 4               | 1            | 1         | 1             | 1         | 1                    | 1         |
|                |                      | ER Collet          | 1 Set        | 1 Set     | 1 Set         | 1 Set     | 1 Set                | 1 Set     |
|                |                      | Adapter Set        | 1 Set        | 1 Set     | 1 Set         | 1 Set     | 1 Set                | 1 Set     |

Specifications are subject to change without notice for improvement.

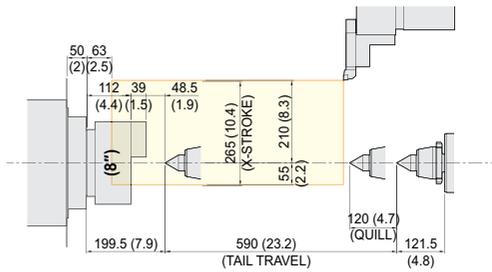
# SPECIFICATIONS

## Tooling Travel Range

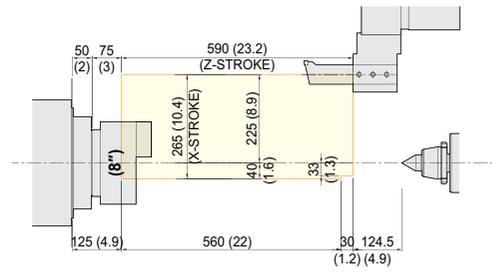
unit : mm(in)

L2000Y

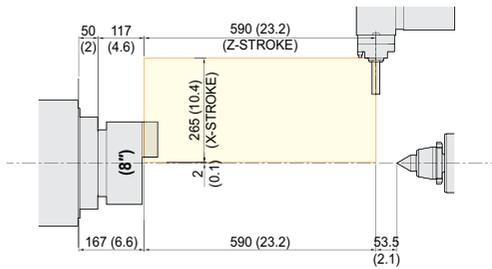
**O.D. Tool holder**



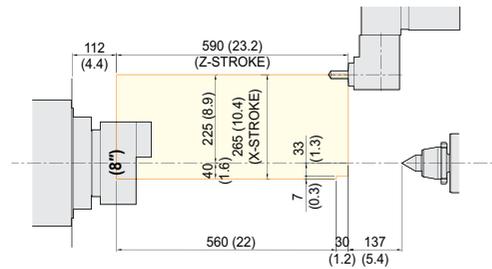
**I.D. Tool holder**



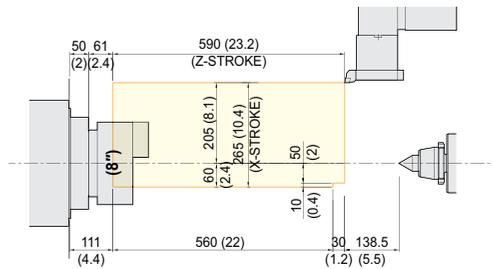
**Axial driven Tool holder**



**Angular driven Tool holder**



**Face Tool holder**



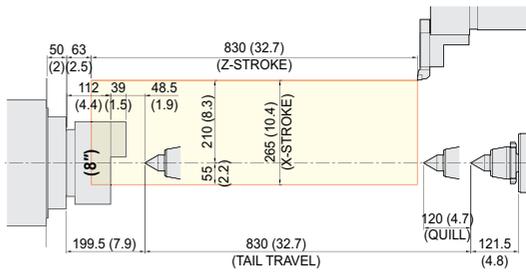
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## Tooling Travel Range

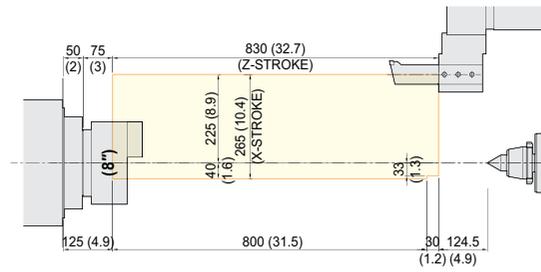
unit : mm(in)

### L2000LY

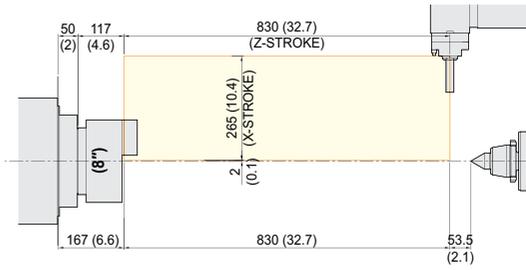
#### O.D. Tool holder



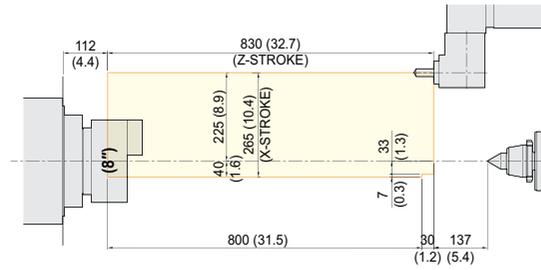
#### I.D. Tool holder



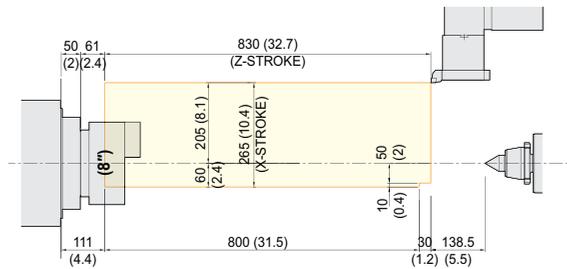
#### Axial driven Tool holder



#### Angular driven Tool holder



#### Face Tool holder



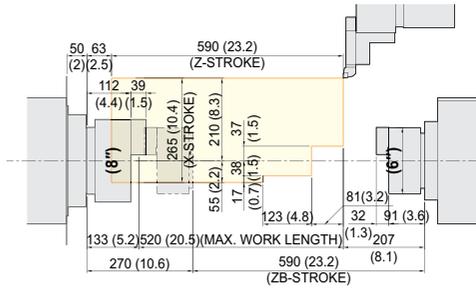
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## Tooling Travel Range

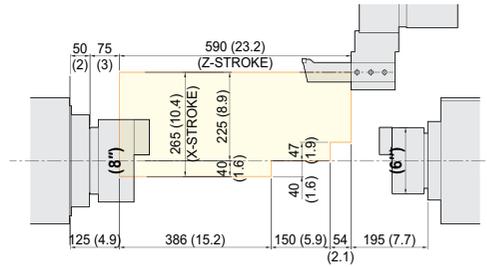
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### L2000SY

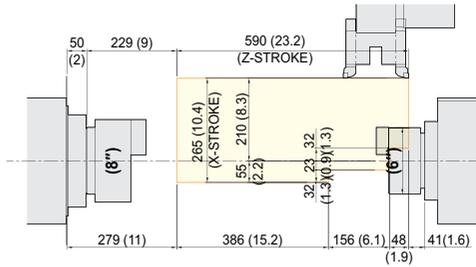
**O.D. Tool holder**



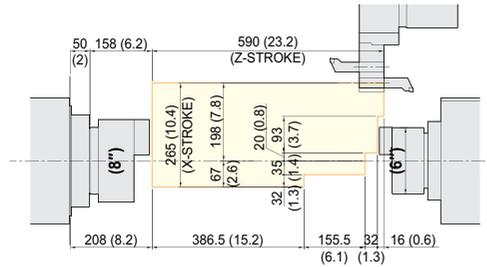
**I.D. Tool holder**



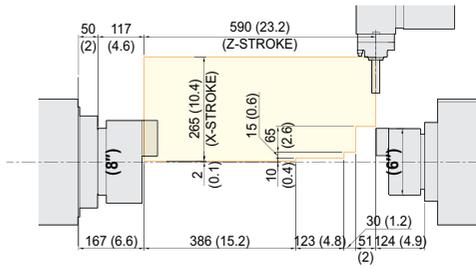
**Double O.D. Tool holder**



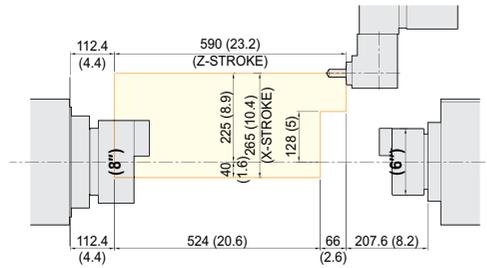
**Double I.D. Tool holder**



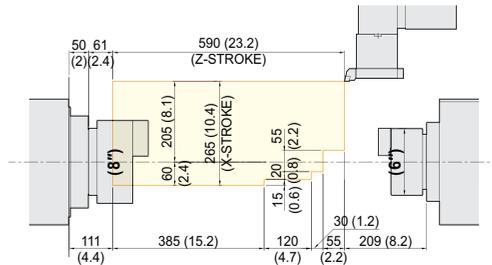
**Axial driven Tool holder**



**Angular driven Tool holder**



**Face Tool holder**



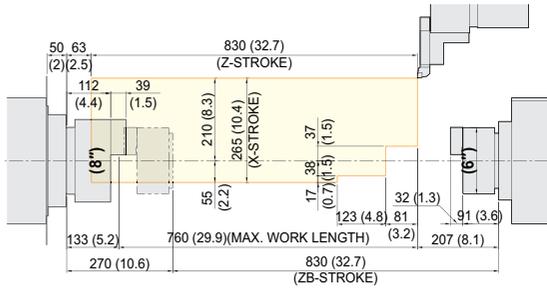
# SPECIFICATIONS

## Tooling Travel Range

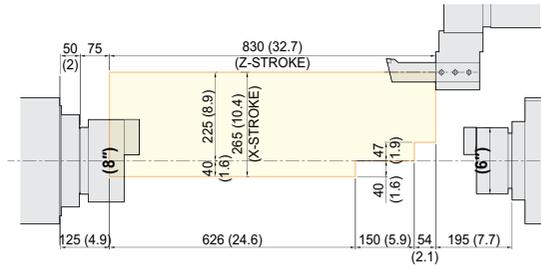
unit : mm(in)

### L2000LSY

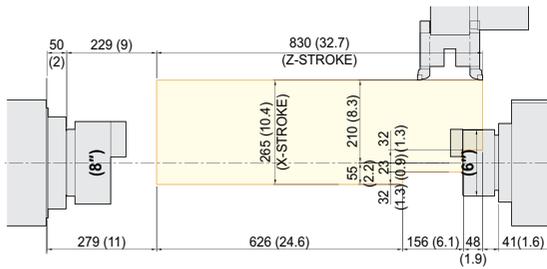
**O.D. Tool holder**



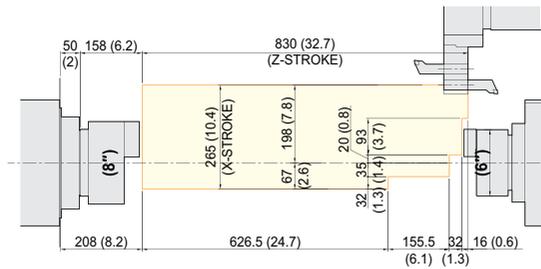
**I.D. Tool holder**



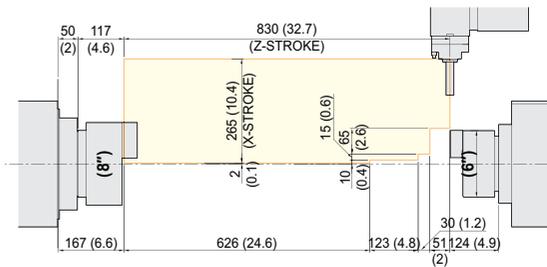
**Double O.D. Tool holder**



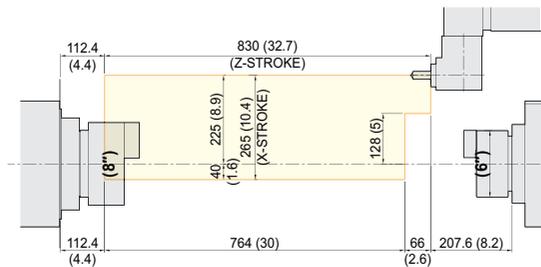
**Double I.D. Tool holder**



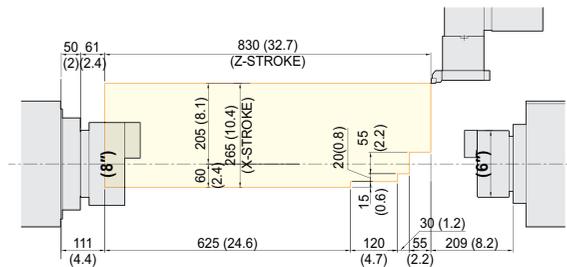
**Axial driven Tool holder**



**Angular driven Tool holder**



**Face Tool holder**



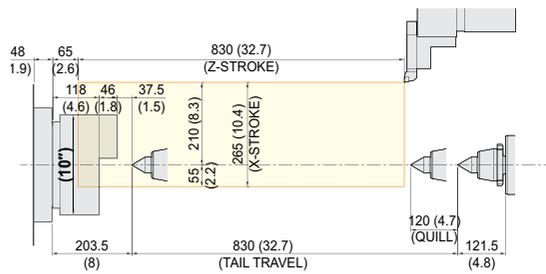
# SPECIFICATIONS

## Tooling Travel Range

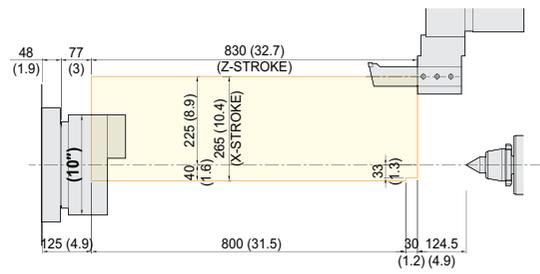
unit : mm(in)

L2600Y

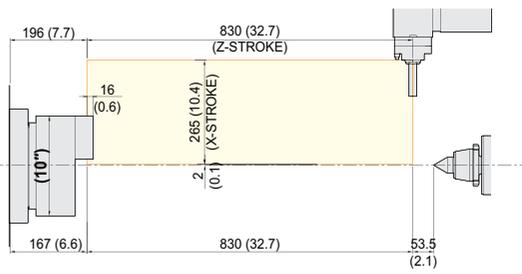
**O.D. Tool holder**



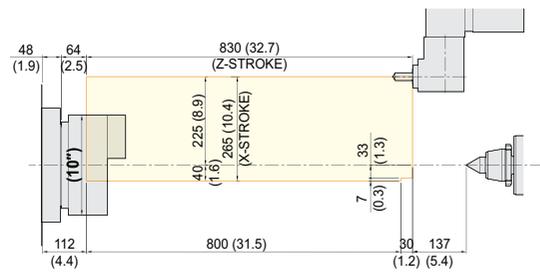
**I.D. Tool holder**



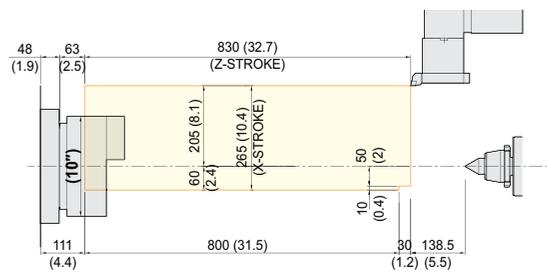
**Axial driven Tool holder**



**Angular driven Tool holder**



**Face Tool holder**



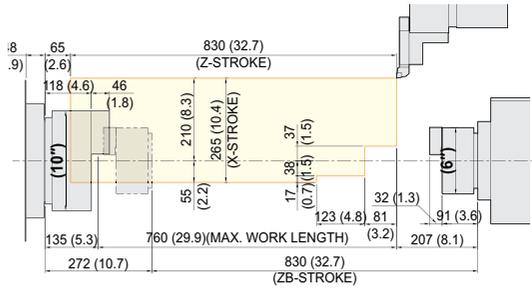
# SPECIFICATIONS

## Tooling Travel Range

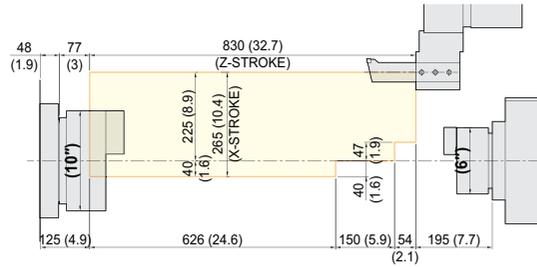
unit : mm(in)

### L2600SY

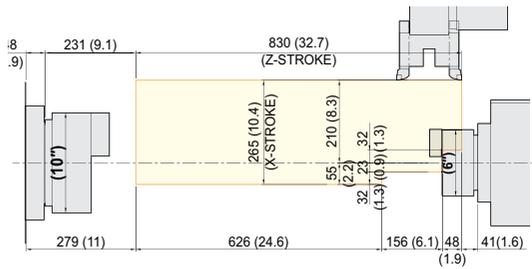
**O.D. Tool holder**



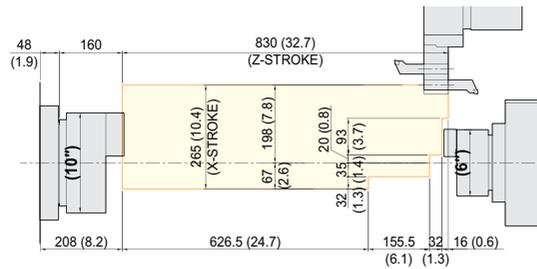
**I.D. Tool holder**



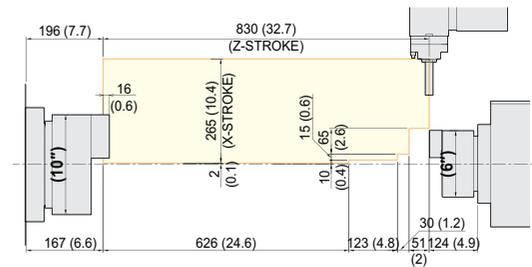
**Double O.D. Tool holder**



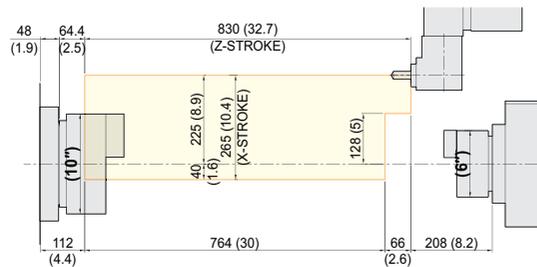
**Double I.D. Tool holder**



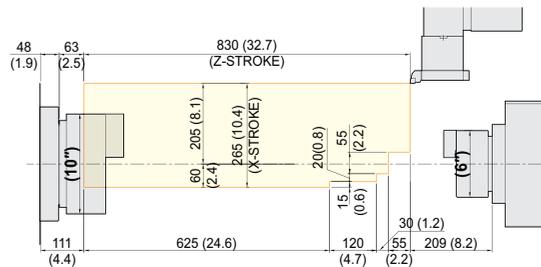
**Axial driven Tool holder**



**Angular driven Tool holder**



**Face Tool holder**

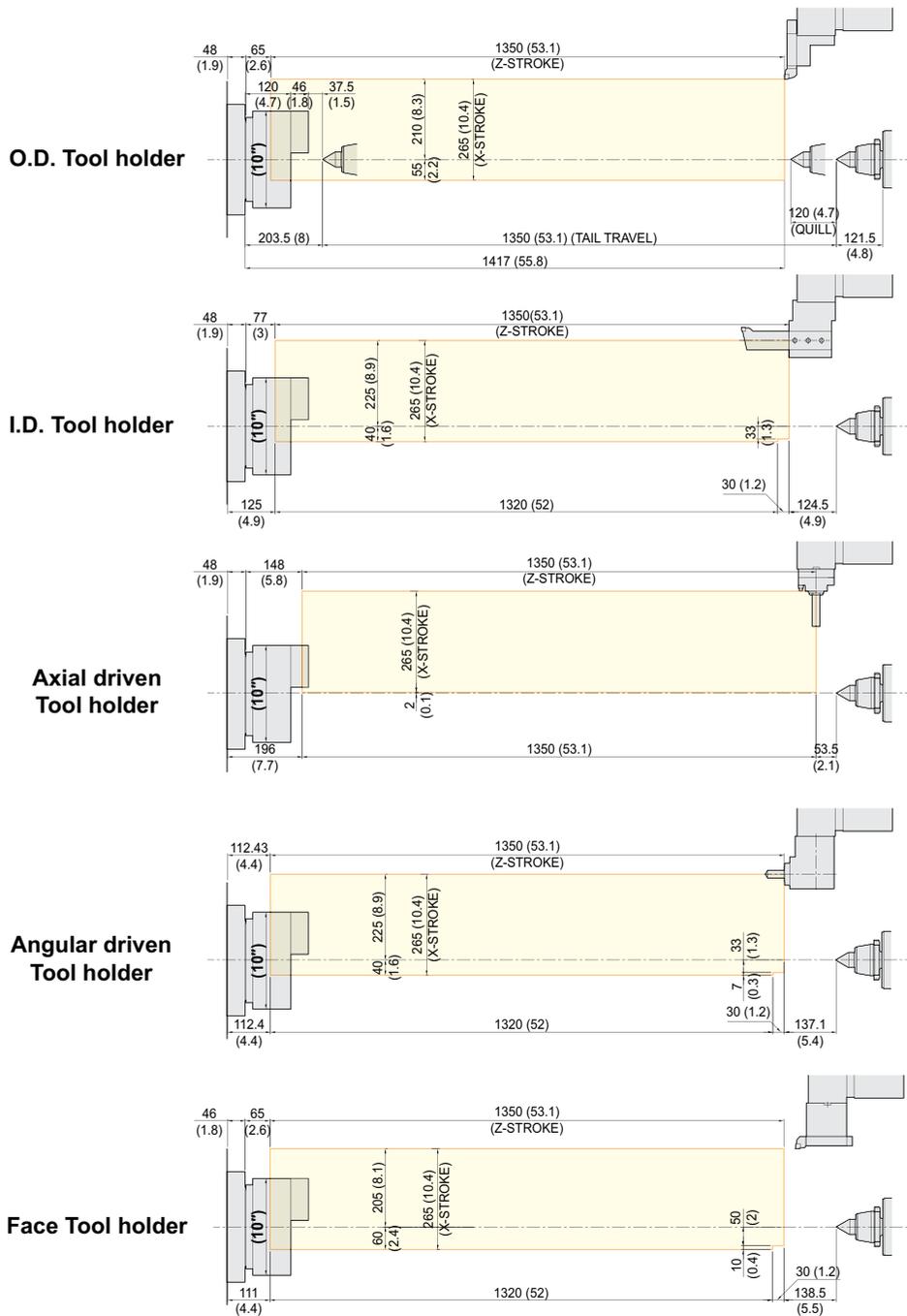


# SPECIFICATIONS

## Tooling Travel Range

unit : mm(in)

L2600LY



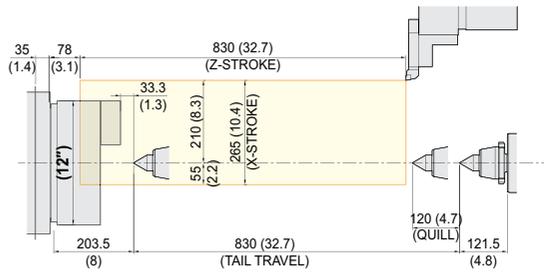
# SPECIFICATIONS

## Tooling Travel Range

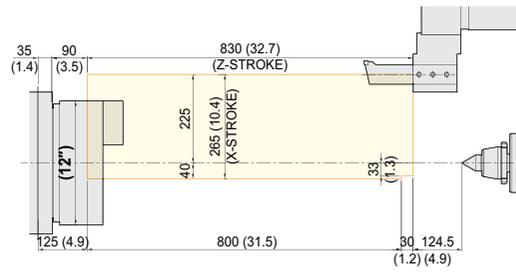
unit : mm(in)

### L3000Y

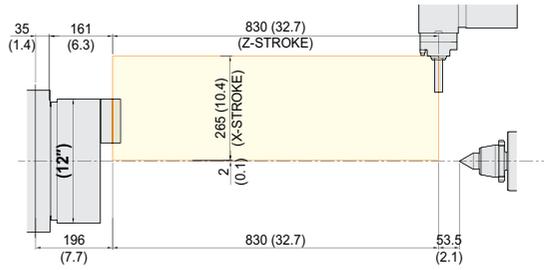
**O.D. Tool holder**



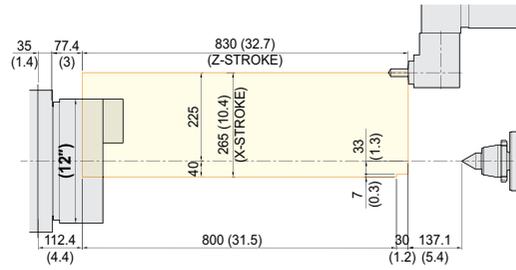
**I.D. Tool holder**



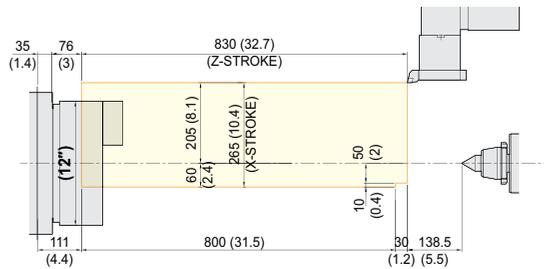
**Axial driven Tool holder**



**Angular driven Tool holder**



**Face Tool holder**



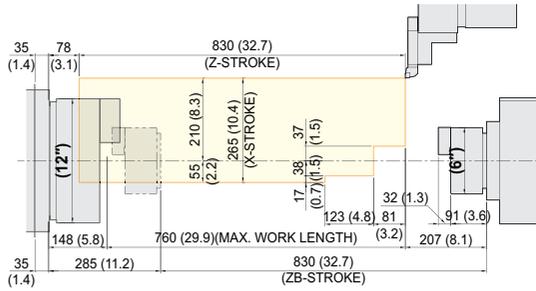
# SPECIFICATIONS

## Tooling Travel Range

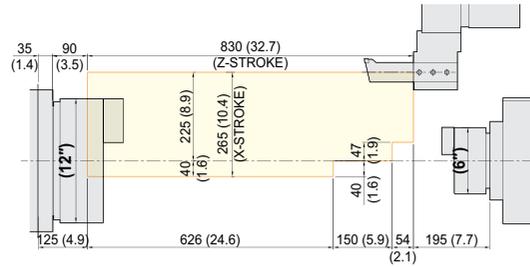
unit : mm(in)

### L3000SY

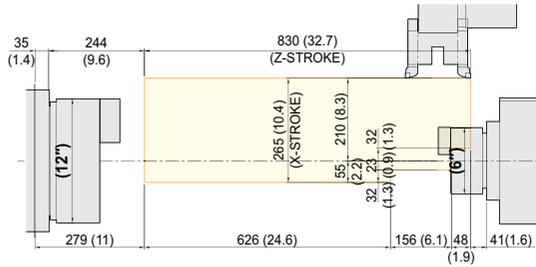
**O.D. Tool holder**



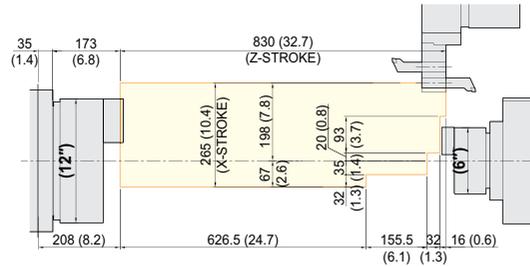
**I.D. Tool holder**



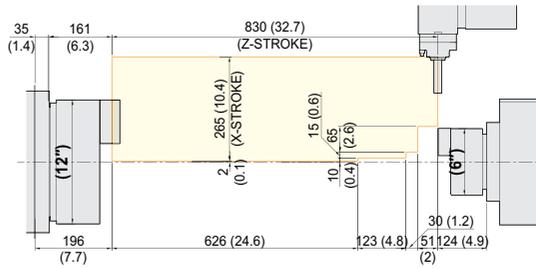
**Double O.D. Tool holder**



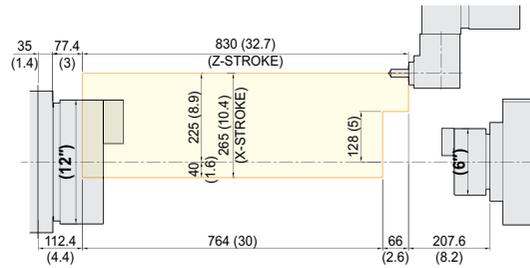
**Double I.D. Tool holder**



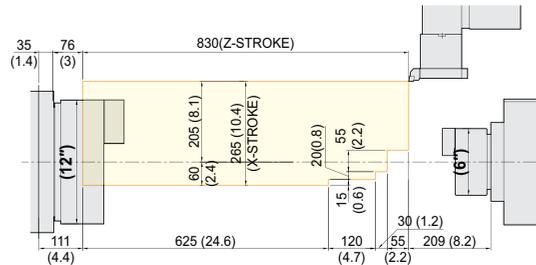
**Axial driven Tool holder**



**Angular driven Tool holder**



**Face Tool holder**

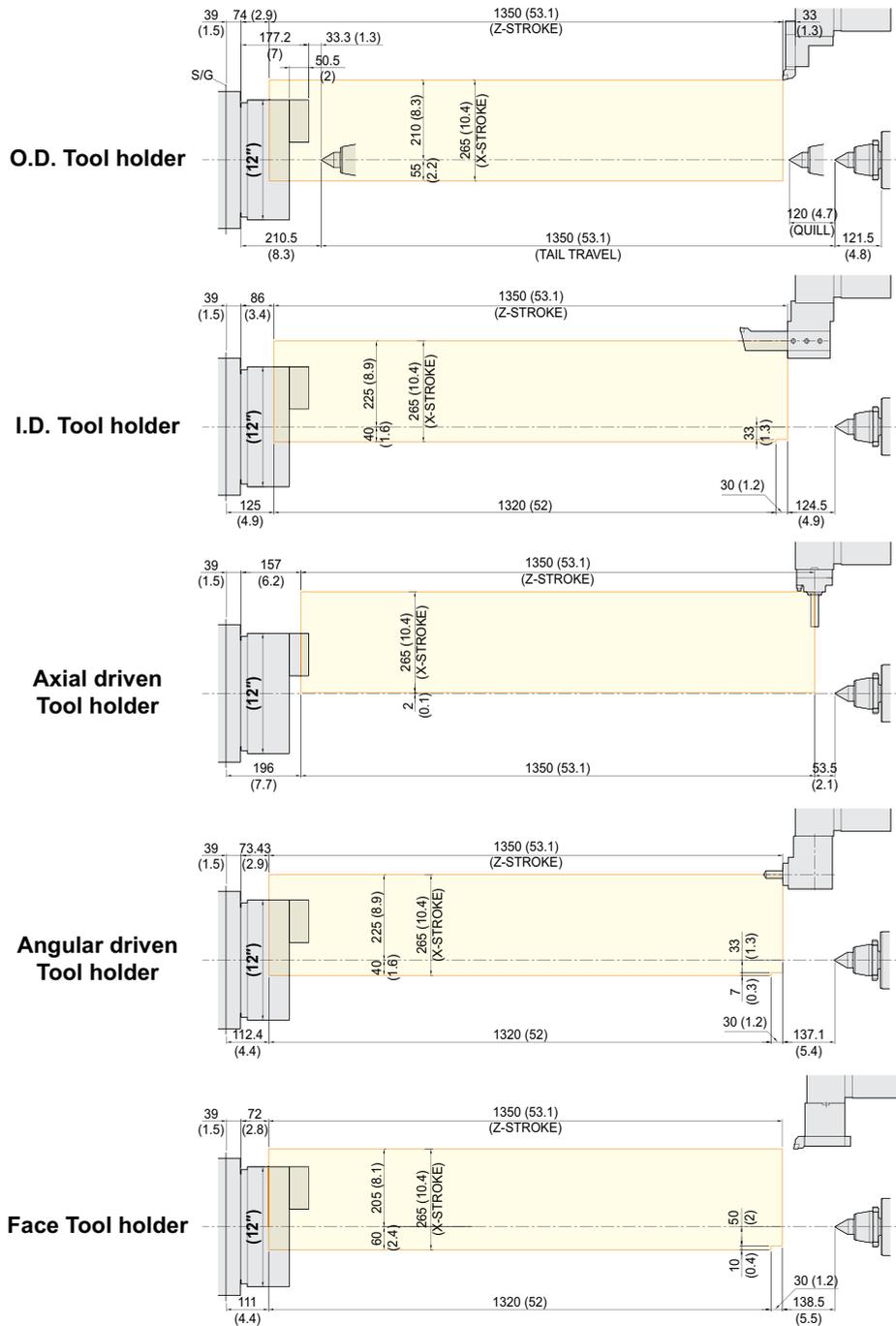


# SPECIFICATIONS

## Tooling Travel Range

unit : mm(in)

L3000LY



# SPECIFICATIONS

## Specifications

[ ] : Option

| ITEM            |                          |             | L2000Y                                        | L2000LY                                       | L2000SY                                     | L2000LSY                   |                       |
|-----------------|--------------------------|-------------|-----------------------------------------------|-----------------------------------------------|---------------------------------------------|----------------------------|-----------------------|
| CAPACITY        | Swing Over the Bed       | mm(in)      | Ø800 (31.5")                                  |                                               |                                             |                            |                       |
|                 | Swing Over the Carriage  | mm(in)      | Ø670 (26.4")                                  |                                               |                                             |                            |                       |
|                 | Max. Turning Dia.        | mm(in)      | Ø420 (16.5")                                  |                                               |                                             |                            |                       |
|                 | Max. Turning Length      | mm(in)      | 520 (20.5")                                   | 760 (29.9")                                   | 520 (20.5")                                 | 760 (29.9")                |                       |
|                 | Bar Capacity             | Main        | mm(in)                                        | Ø65 (2.6")                                    |                                             |                            |                       |
| Sub             |                          | mm(in)      | -                                             |                                               | Ø51 (2")                                    |                            |                       |
| SPINDLE         | Chuck Size               | Main        | inch                                          | 8"                                            |                                             |                            |                       |
|                 |                          | Sub         | inch                                          | -                                             | 6"                                          |                            |                       |
|                 | Spindle Bore             | Main        | mm(in)                                        | Ø76 (3")                                      |                                             |                            |                       |
|                 |                          | Sub         | mm(in)                                        | -                                             | Ø62 (2.4")                                  |                            |                       |
|                 | Spindle Speed (rpm)      | Main        | r/min                                         | 5,000 [4,500]                                 |                                             |                            |                       |
|                 |                          | Sub         | r/min                                         | -                                             | 6,000 [4,500]                               |                            |                       |
|                 | Motor (Max/Cont.)        | Main        | kw(HP)                                        | 22/11 (30/15) [18.5/11 (25/15)]               |                                             |                            |                       |
|                 |                          | Sub         | kw(HP)                                        | -                                             | 15/11 (20/15) [11/5.5 (15/7.4)]             |                            |                       |
|                 | Torque (Max/Cont.)       | Main        | N·m(lbf·ft)                                   | 358/301 (264/222) [314.2/186.2 (231.7/137.3)] |                                             |                            |                       |
|                 |                          | Sub         | N·m(lbf·ft)                                   | -                                             | 135/99.1 (99.6/73.1) [124/62.1 (91.5/45.8)] |                            |                       |
|                 | Spindle Type             | Main        | -                                             | BUILT-IN [BELT]                               |                                             |                            |                       |
| Sub             |                          | -           | -                                             | BUILT-IN [BELT]                               |                                             |                            |                       |
| Spindle Nose    | Main                     | -           | A2-6                                          |                                               |                                             |                            |                       |
|                 | Sub                      | -           | -                                             | A2-5                                          |                                             |                            |                       |
| C-axis Indexing | deg                      | 0.001°      |                                               |                                               |                                             |                            |                       |
| FEED            | Travel                   | X/Y         | mm(in)                                        | 265/120 {±60} (10.4"/4.7" {±2.4"})            |                                             |                            |                       |
|                 |                          | Z/ZB        | mm(in)                                        | 590 (23.2")                                   | 830 (32.7")                                 | 590/590 (23.2"/23.2")      | 830/830 (32.7"/32.7") |
|                 | Rapid Traverse Rate      | X/Y         | m/min(ipm)                                    | 30/10 (1,181/394)                             |                                             |                            |                       |
|                 |                          | Z/ZB        | m/min(ipm)                                    | 30/30 (1,181/1,181)                           |                                             |                            |                       |
| Slide Type      | -                        | BOX GUIDE   |                                               |                                               |                                             |                            |                       |
| TURRET          | No. of Tools             | ea          | 12                                            |                                               |                                             |                            |                       |
|                 | Tool Size                | OD          | mm(in)                                        | □ 25 (1")                                     |                                             |                            |                       |
|                 |                          | ID          | mm(in)                                        | Ø50 (2")                                      |                                             |                            |                       |
|                 | Indexing Time            | sec/step    | 0.15                                          |                                               |                                             |                            |                       |
| Y-Axis Type     | -                        | WEDGE TYPE  |                                               |                                               |                                             |                            |                       |
| LIVE TOOL       | Motor (Max/Cont.)        | kw(HP)      | 5.5/1.5 (7.4/2) [7.5/1.5 (10/2)]              |                                               |                                             |                            |                       |
|                 | Milling Tool Speed (rpm) | r/min       | 5,000                                         |                                               |                                             |                            |                       |
|                 | Torque (Max/Cont.)       | N·m(lbf·ft) | 47.1/33.7 (34.7/24.9) [95.5/33.7 (70.4/24.9)] |                                               |                                             |                            |                       |
|                 | Collet Size              | mm(in)      | Ø20 (0.8") [ER32]                             |                                               |                                             |                            |                       |
|                 | Type                     | -           | BMT65                                         |                                               |                                             |                            |                       |
| TAIL STOCK      | Taper                    | -           | MT#5                                          |                                               |                                             | -                          |                       |
|                 | Quill Dia.               | mm(in)      | Ø100 (3.9")                                   |                                               |                                             |                            |                       |
|                 | Quill Travel             | mm(in)      | 120 (4.7")                                    |                                               |                                             |                            |                       |
|                 | Travel                   | mm(in)      | 590 (23.2")                                   | 830 (32.7")                                   |                                             |                            |                       |
| TANK CAPACITY   | Coolant Tank             | ℓ (gal)     | 275 (72.6)                                    | 290 (76.6)                                    | 275 (72.6)                                  | 290 (76.6)                 |                       |
|                 | Lubricating Tank         | ℓ (gal)     | 3 (0.8)                                       |                                               |                                             |                            |                       |
| POWER SUPPLY    | Electric Power Supply    | kVA         | Built-in : 39 [Belt : 32]                     |                                               | Built-in : 55 [Belt : 38]                   |                            |                       |
|                 | Thickness of Power Cable | mm²         | Over 25                                       |                                               | Built-in : Over 50 [Belt : Over 25]         |                            |                       |
|                 | Voltage                  | V/Hz        | 220/60 (200/50*)                              |                                               |                                             |                            |                       |
| MACHINE         | Floor Space (L×W)        | mm(in)      | 3,220×1,890 (126.8"×74.4")                    | 3,600×1,890 (141.7"×74.4")                    | 3,220×1,890 (126.8"×74.4")                  | 3,600×1,890 (141.7"×74.4") |                       |
|                 | Height                   | mm(in)      | 1,950 (76.8)                                  |                                               |                                             |                            |                       |
|                 | Weight                   | kg(lb)      | 5,500 (12,125)                                | 6,000 (13,228)                                | 5,800 (12,787)                              | 6,300 (13,889)             |                       |
| PC              | Controller               | -           | HYUNDAI WIA FANUC i Series - Smart Plus       |                                               |                                             |                            |                       |

\*) 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

## Specifications

[ ] : Option

| ITEM            |                          |                 | L2600Y                                        | L2600LY                                           | L2600SY                                                           |
|-----------------|--------------------------|-----------------|-----------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------|
| CAPACITY        | Swing Over the Bed       | mm(in)          |                                               | Ø800 (31.5")                                      |                                                                   |
|                 | Swing Over the Carriage  | mm(in)          |                                               | Ø670 (26.4")                                      |                                                                   |
|                 | Max. Turning Dia.        | mm(in)          |                                               | Ø420 (16.5")                                      |                                                                   |
|                 | Max. Turning Length      | mm(in)          | 760 (29.9")                                   | 1,280 (50.4")                                     | 760 (29.9")                                                       |
|                 | Bar Capacity             | Main            | mm(in)                                        |                                                   | Ø81 (3.2")                                                        |
| Sub             |                          | mm(in)          | -                                             |                                                   | Ø51 (2")                                                          |
| SPINDLE         | Chuck Size               | Main            | inch                                          | 10"                                               |                                                                   |
|                 |                          | Sub             | inch                                          | -                                                 | 6" [8"] [6"]                                                      |
|                 | Spindle Bore             | Main            | mm(in)                                        | Ø91 (3.6")                                        |                                                                   |
|                 |                          | Sub             | mm(in)                                        | -                                                 | Ø62 (2.4")                                                        |
|                 | Spindle Speed (rpm)      | Main            | r/min                                         | 4,000 [3,500]                                     |                                                                   |
|                 |                          | Sub             | r/min                                         | -                                                 | 6,000 [5,000] [4,500]                                             |
|                 | Motor (Max/Cont.)        | Main            | kW(HP)                                        | 22/15 (30/20) [26/18.5 (35/25)]                   |                                                                   |
|                 |                          | Sub             | kW(HP)                                        | -                                                 | 15/11 (20/15) [22/15(30/20)] [11/5.5 (15/7.4)]                    |
|                 | Torque (Max/Cont.)       | Main            | N·m(lbf·ft)                                   | 599/409 (441.8/301.7) [733.7/522.1 (541.1/385.1)] |                                                                   |
|                 |                          | Sub             | N·m(lbf·ft)                                   | -                                                 | 135/99.1 (99.6/73.1) [221/159 (163/117.3)] [124/62.1 (91.5/45.8)] |
|                 | Spindle Type             | Main            | -                                             | Built-in [Belt]                                   |                                                                   |
|                 |                          | Sub             | -                                             | -                                                 | Built-in [Built-in] [Belt]                                        |
| Spindle Nose    | Main                     | -               | A2-8                                          |                                                   |                                                                   |
|                 | Sub                      | -               | -                                             | A2-5                                              |                                                                   |
| C-axis Indexing | deg                      | 0.001°          |                                               |                                                   |                                                                   |
| FEED            | Travel                   | X/Y             | mm(in)                                        |                                                   | 265/120 {±60} (10.4"/4.7" {±2.4"})                                |
|                 |                          | Z/ZB            | mm(in)                                        | 830 (32.7")                                       | 1,350 (53.1) 830/830 (32.7"/32.7")                                |
|                 | Rapid Traverse Rate      | X/Y             | m/min(ipm)                                    | 30/10 (1,181/394)                                 |                                                                   |
|                 |                          | Z/ZB            | m/min(ipm)                                    | 30/30 (1,181/1,181)                               |                                                                   |
| Slide Type      | -                        | BOX GUIDE       |                                               |                                                   |                                                                   |
| TURRET          | No. of Tools             | ea              | 12                                            |                                                   |                                                                   |
|                 | Tool Size                | OD              | mm(in)                                        | □ 25 (1")                                         |                                                                   |
|                 |                          | ID              | mm(in)                                        | Ø50 (2")                                          |                                                                   |
|                 | Indexing Time            | sec/step        | 0.15                                          |                                                   |                                                                   |
| Y-Axis Type     | -                        | WEDGE TYPE      |                                               |                                                   |                                                                   |
| LIVE TOOL       | Motor (Max/Cont.)        | kW(HP)          | 5.5/1.5 (7.4/2) [7.5/1.5 (10/2)]              |                                                   |                                                                   |
|                 | Milling Tool Speed (rpm) | r/min           | 5,000                                         |                                                   |                                                                   |
|                 | Torque (Max/Cont.)       | N·m(lbf·ft)     | 47.1/33.7 (34.7/24.9) [95.5/33.7 (70.4/24.9)] |                                                   |                                                                   |
|                 | Collet Size              | mm(in)          | Ø20 (0.8") {ER32}                             |                                                   |                                                                   |
|                 | Type                     | -               | BMT65                                         |                                                   |                                                                   |
| TAIL STOCK      | Taper                    | -               | MT#5                                          |                                                   |                                                                   |
|                 | Quill Dia.               | mm(in)          | Ø100 (3.9")                                   |                                                   |                                                                   |
|                 | Quill Travel             | mm(in)          | 120 (4.7")                                    |                                                   |                                                                   |
|                 | Travel                   | mm(in)          | 830 (32.7")                                   | 1,350 (53.1)                                      | -                                                                 |
| TANK CAPACITY   | Coolant Tank             | ℓ (gal)         | 290 (76.6)                                    | 320 (84.5)                                        | 290 (76.6)                                                        |
|                 | Lubricating Tank         | ℓ (gal)         | 3 (0.8)                                       |                                                   |                                                                   |
| POWER SUPPLY    | Electric Power Supply    | kVA             | Built-in : 39 [Belt : 37]                     |                                                   | Built-in : 55 [Belt : 46]                                         |
|                 | Thickness of Power Cable | mm <sup>2</sup> | Over 25                                       |                                                   | Built-in : Over 50 [Belt : Over 35]                               |
|                 | Voltage                  | V/Hz            | 220/60 (200/50*)                              |                                                   |                                                                   |
| MACHINE         | Floor Space (L×W)        | mm(in)          | 3,600×1,890 (141.7"×74.4")                    | 4,120×1,890 (162.2"×74.4")                        | 3,600×1,890 (141.7"×74.4")                                        |
|                 | Height                   | mm(in)          | 1,950 (76.8)                                  |                                                   |                                                                   |
|                 | Weight                   | kg(lb)          | 6,200 (13,669)                                | 7,500 (16,535)                                    | 6,550 (14,440)                                                    |
| PC              | Controller               | -               | HYUNDAI WIA FANUC i Series - Smart Plus       |                                                   |                                                                   |

\*) 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            |                          |                 | L3000Y                                              | L3000LY                    | L3000SY                                     |
|-----------------|--------------------------|-----------------|-----------------------------------------------------|----------------------------|---------------------------------------------|
| CAPACITY        | Swing Over the Bed       | mm(in)          | Ø800 (31.5")                                        |                            |                                             |
|                 | Swing Over the Carriage  | mm(in)          | Ø670 (26.4")                                        |                            |                                             |
|                 | Max. Turning Dia.        | mm(in)          | Ø420 (16.5")                                        |                            |                                             |
|                 | Max. Turning Length      | mm(in)          | 760 (29.9")                                         | 1,280 (50.4")              | 760 (29.9")                                 |
|                 | Bar Capacity             | Main            | mm(in)                                              | Ø102 (4")                  |                                             |
| Sub             |                          | mm(in)          | -                                                   | -                          | Ø51 (2")                                    |
| SPINDLE         | Chuck Size               | Main            | 12"                                                 |                            |                                             |
|                 |                          | Sub             | -                                                   | -                          | 6"                                          |
|                 | Spindle Bore             | Main            | Ø115 (4.5")                                         |                            |                                             |
|                 |                          | Sub             | -                                                   | -                          | Ø62 (2.4")                                  |
|                 | Spindle Speed (rpm)      | Main            | 3,000 [2,800]                                       |                            |                                             |
|                 |                          | Sub             | -                                                   | -                          | 6,000 [4,500]                               |
|                 | Motor (Max/Cont.)        | Main            | 37/25 (50/33.5) [26/18.5 (35/25)]                   |                            |                                             |
|                 |                          | Sub             | -                                                   | -                          | 15/11 (20/15) [11/5.5 (15/7.4)]             |
|                 | Torque (Max/Cont.)       | Main            | 1,262/1,003 (930.8/739.8) [1,123/664 (828.2/489.7)] |                            |                                             |
|                 |                          | Sub             | -                                                   | -                          | 135/99.1 (99.6/73.1) [124/62.1 (91.5/45.8)] |
|                 | Spindle Type             | Main            | Built-in [Belt]                                     |                            |                                             |
|                 |                          | Sub             | -                                                   | -                          | Built-in [Belt]                             |
| Spindle Nose    | Main                     | A2-11           |                                                     |                            |                                             |
|                 | Sub                      | -               | -                                                   | A2-5                       |                                             |
| C-axis Indexing | deg                      | 0.001°          |                                                     |                            |                                             |
| FEED            | Travel                   | X/Y             | 265/120 {±60} (10.4"/4.7" {±2.4"})                  |                            |                                             |
|                 |                          | Z/ZB            | 830 (32.7")                                         | 1,350 (53.1)               | 830/830 (32.7"/32.7")                       |
|                 | Rapid Traverse Rate      | X/Y             | 30/10 (1,181/394)                                   |                            |                                             |
|                 |                          | Z/ZB            | 30/30 (1,181/1,181)                                 |                            |                                             |
| Slide Type      | -                        | BOX GUIDE       |                                                     |                            |                                             |
| TURRET          | No. of Tools             | ea              | 12                                                  |                            |                                             |
|                 | Tool Size                | OD              | □ 25 (1")                                           |                            |                                             |
|                 |                          | ID              | Ø50 (2")                                            |                            |                                             |
|                 | Indexing Time            | sec/step        | 0.15                                                |                            |                                             |
| Y-Axis Type     | -                        | WEDGE TYPE      |                                                     |                            |                                             |
| LIVE TOOL       | Motor (Max/Cont.)        | kw(HP)          | 5.5/1.5 (7.4/2) [7.5/1.5 (10/2)]                    |                            |                                             |
|                 | Milling Tool Speed (rpm) | r/min           | 5,000                                               |                            |                                             |
|                 | Torque (Max/Cont.)       | N·m(lbf·ft)     | 47.1/33.7 (34.7/24.9) [95.5/33.7 (70.4/24.9)]       |                            |                                             |
|                 | Collet Size              | mm(in)          | Ø20 (0.8") {ER32}                                   |                            |                                             |
|                 | Type                     | -               | BMT65                                               |                            |                                             |
| TAIL STOCK      | Taper                    | -               | MT#5                                                |                            |                                             |
|                 | Quill Dia.               | mm(in)          | Ø100 (3.9")                                         |                            |                                             |
|                 | Quill Travel             | mm(in)          | 120 (4.7")                                          |                            |                                             |
|                 | Travel                   | mm(in)          | 830 (32.7")                                         | 1,350 (53.1)               | -                                           |
| TANK CAPACITY   | Coolant Tank             | ℓ (gal)         | 290 (76.6)                                          | 320 (84.5)                 | 290 (76.6)                                  |
|                 | Lubricating Tank         | ℓ (gal)         | 3 (0.8)                                             |                            |                                             |
| POWER SUPPLY    | Electric Power Supply    | kVA             | Built-in : 52 [Belt : 37]                           |                            | Built-in : 68 [Belt : 46]                   |
|                 | Thickness of Power Cable | mm <sup>2</sup> | Over 35                                             |                            | Built-in : Over 70 [Belt : Over 35]         |
|                 | Voltage                  | V/Hz            | 220/60 (200/50*)                                    |                            |                                             |
| MACHINE         | Floor Space (L×W)        | mm(in)          | 3,600×1,890 (141.7"×74.4")                          | 4,320×1,890 (170.1"×74.4") | 3,600×1,890 (141.7"×74.4")                  |
|                 | Height                   | mm(in)          | 1,950 (76.8")                                       |                            |                                             |
|                 | Weight                   | kg(lb)          | 6,700 (14,771)                                      | 7,800 (17,196)             | 6,900 (15,212)                              |
| NC              | Controller               | -               | HYUNDAI WIA FANUC i Series - Smart Plus             |                            |                                             |

\*) 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 – Smart Plus

[ ] : Option

| Controlled axis / Display / Accuracy Compensation |                                                                                                                                                  |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Control axis                                      | 2 axis (X, Z) / 3 axis (X, Z, C) / 4 axis (X, Z, Y, C)<br>5 axis (X, Z, B, C, A) / 6 axis (X, Z, Y, B, C, A)<br>7 axis (X1/Z1, X2/Z2, B2, C1/C2) |
| Simultaneously controlled axis                    | 2 axis [Max. 4 axis]                                                                                                                             |
| Designation of spindle axis                       | 3 axis [Max. 4 axis]                                                                                                                             |
| Least setting Unit                                | X, Z, Y, B axis : 0.001 mm (0.0001 inch)<br>C, A axis : 0.001 deg                                                                                |
| Least input increment                             | X, Z, Y, B axis : 0.001 mm (0.0001 inch)<br>C, A axis : 0.001 deg                                                                                |
| Inch / Metric conversion                          | G20 / G21                                                                                                                                        |
| High response vector control                      |                                                                                                                                                  |
| Interlock                                         | All axis / Each axis                                                                                                                             |
| Machine lock                                      | All axis                                                                                                                                         |
| Backlash compensation                             | ± 0~9999 pulses (exc. Rapid traverse / Cutting feed)                                                                                             |
| Position switch                                   |                                                                                                                                                  |
| LCD / MDI                                         | 15 inch LCD unit (with Touch Panel)                                                                                                              |
| 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<br>Ref. position check : G27                                                                            |
| Thread synchronous cutting                        | G33                                                                                                                                              |
| Thread cutting retract                            |                                                                                                                                                  |
| Variable lead thread cutting                      |                                                                                                                                                  |
| Multi / Continuous threading                      |                                                                                                                                                  |
| Feed function / Acc. & Dec. control               |                                                                                                                                                  |
| Manual feed                                       | Rapid traverse<br>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                           | 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                               | 9 ea                                                                                                                                             |
| 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, B/C                                                                                                                                           |
| Programmable mirror image                         | G51.1, G50.1                                                                                                                                     |
| G code preventing buffering                       | G4.1                                                                                                                                             |
| Direct drawing dimension program                  | Including Chamfering / Corner R                                                                                                                  |
| Conversational Program                            | SmartGuide-i                                                                                                                                     |

| 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 & 5 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                   | 5,120m (2MB)                                       |
| No. of registerable programs                | 1,000 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                               | CF card, USB memory<br>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 24 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 axis)             | 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               |
| Polygon turning (2 Spindles)                | 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                             | 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                                          |
| Helical interpolation                       |                                                    |
| Optional block skip                         | 40 ea, 200 ea (AICC II)                            |

Figures in inch are converted from metric values.

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



L2600SY  
Movie



L2600SY  
3D Movie



**You Tube** HYUNDAI WIA MT

[www.youtube.com/HYUNDAIWIAMT](http://www.youtube.com/HYUNDAIWIAMT)

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