

LF-II Series

LF2200 II Series | LF2600 II Series

HYUNDAI WIA Front Loading Turning Center

Technical Leader

Twin Spindle, Front Loading CNC Turning Center

LF-II Series features high mobility through its compact size, making it suitable for tight spaces, and automated operations for maximizing productivity.

| Model | Chuck | | | Guideway | | Standard Turret | | | Mill Turret | |
|-----------------|-------|----|-----|----------|-----|-----------------|------------|------------|-------------|------------|
| | 6" | 8" | 10" | Roller | Box | 8 Station | 10 Station | 12 Station | 10 Station | 12 Station |
| LF2200 II | ○ | ○ | | | ● | ● | ○ | | | |
| LF2200Quick II | ○ | ○ | | ● | | ● | ○ | | | |
| LF2200M II | ○ | ○ | | | ● | | | | ● | |
| LF2200MQuick II | ○ | ○ | | ● | | | | | ● | |
| LF2600 II | | ○ | ○ | | ● | | ● | ○ | | |
| LF2600Quick II | | ○ | ○ | ● | | | ● | ○ | | |
| LF2600M II | | ○ | ○ | | ● | | | | ● | ○ |
| LF2600MQuick II | | ○ | ○ | ● | | | | | ● | ○ |

● Standard ○ Option

LF-II

Series

Front Loading Turning Center with Top Global Standard

- Increased rigidity by improving Z-axis structure
- Selection between roller LM guide and box guide way
- Stable unit composition with minimized thermal deformation
- Various types of gantry loader ensure effective & flexible automation
- A pleasant working environment by improving chip disposal ability
- Enhanced convenience by applying Fanuc's latest controller



01 BASIC STRUCTURE

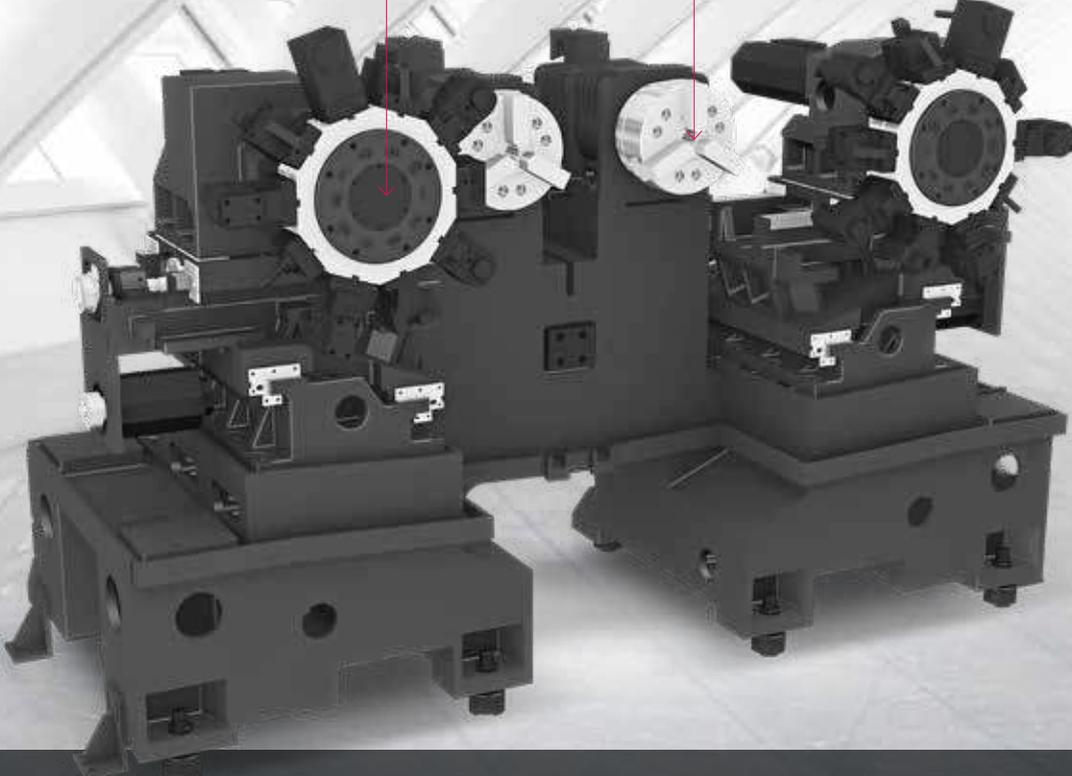
Optimized Layout and Design, Twin Spindle Front Loading CNC Turning Center

Turret

- Tool Size (O.D | I.D)
 LF2200 II Series : $\varnothing 20$ | $\varnothing 32$ mm ($\varnothing 3/4$ " | $\varnothing 1 1/4$ ")
 LF2600 II Series : $\varnothing 25$ | $\varnothing 40$ mm ($\varnothing 1$ " | $\varnothing 1 1/2$ ")
- Mill Turret
 LF2200M II Series : BMT45 : 6,000 r/min
 LF2600M II Series : BMT55 : 5,000 r/min

High Precision Spindle

- LF2200 II Series
 [6" : 6,000 r/min | 8" : 4,500 r/min]
- LF2600 II Series
 [8" : 4,000 r/min | 10" : 3,500 r/min]
- C-Axis Control : 0.001° (*M' Type)



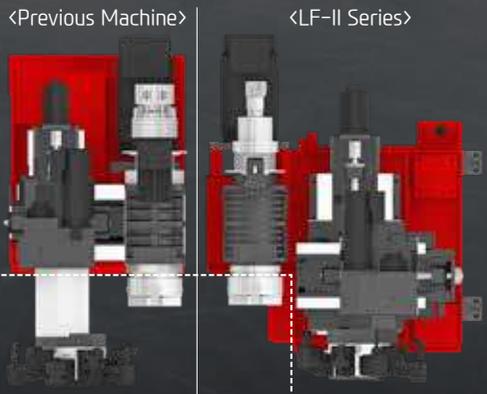
Increased Rigidity by Changing the Bed Structure

In order to prevent decreased rigidity caused by load imbalance from sagging of the turret, and reduced lifetime of the give, LF2600 II Series increased the rigidity and realized high-precision product machining by designing protruded spindle headstock and Z-axis tool post.

◎ Reduced Protruded Length of Tool Post

LF2200 II Series : 390 mm (15.4") > 257 mm (10.1") - 133 mm (5.2") shorter

LF2600 II Series : 507 mm (20") > 269 mm (10.6") - 238 mm (9.4") shorter



POWERFUL CUTTING CAPABILITY & LARGE WORKING AREA

HIGH PRECISION STRUCTURE

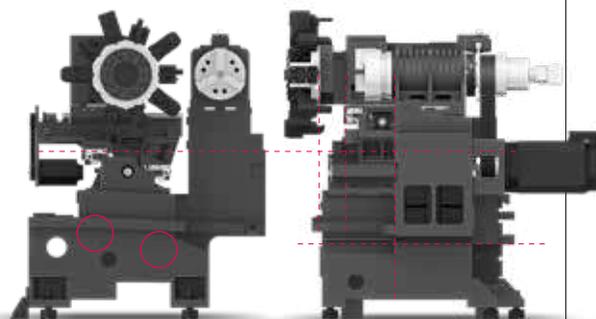
Separated Bed Structure

The LF-II series is designed as a separated bed structure, minimizing thermal growth and vibration, ensuring stable cutting capability.

Z-axis Structure

Prevent sagging of the turret by reducing the protruded parts of the headstock by changing the structure of the Z-axis, and allow for high-precision machining of the product by increasing rigidity.

<Secure rigidity through shortest possible design of the outer guideway to the spindle>

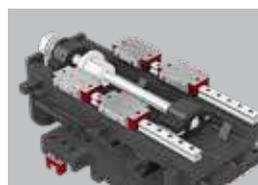


Get Close to the Spindle of the Cascaded Z-axis and Expand Span > Increased Rigidity

GUIDEWAY

Roller LM Guide / Box Guide

The transfer axis of LF-II Series give options for roller LM guide and box guide to ensure optimum conditions according to machining characteristics.



<Roller Guide - Quick Type>



<Box Guide>

Ball Screw

In order to eliminate thermal growth and to increase accuracy, all axis are driven by high precision double anchored ballscrews.



Rapid Traverse Rate (X/Z)

Roller LM Guideway (LF2200/2600Quick II Series)

24/36 m/min (945/1,417 ipm)

Box Guideway (LF2200/2600 II Series)

24/24 m/min (945/945 ipm)

Travel (X/Z)

LF2200 II Series

140/170 mm (5.5"/6.7")

LF2600 II Series

190/200 mm (7.5"/7.9")

LF-II SERIES

02 MACHINING PERFORMANCE

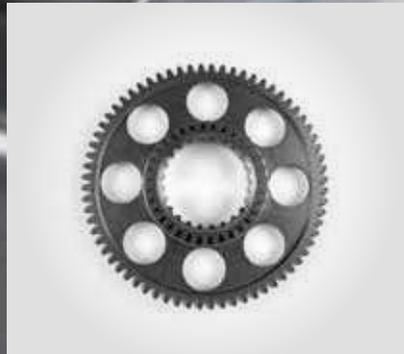
Excellent Performance, High Precision - Front Loading Turning Center



WHEEL HUB



COOLING ADAPTER

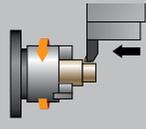


DRIVE GEAR

MACHINING PROCESS WITH ONLY ONE INITIAL SETTING

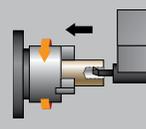
REDUCED MACHINING TIME BY HYUNDAI WIA'S TECHNIQUE

LF II Series features a compact structure for the convenience in applying components and an automated system with improved productivity. In addition, an optimized design of a high-rigidity bed, spindle and guide realizes high-precision product processing by reducing complex thermal deformation.



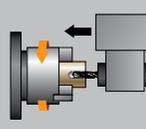
O.D Turning
(Material : S45C)

| | LF2200M II | LF2600M II |
|-------------------------|--------------|--------------|
| Machining depth | 4 mm (0.16") | 4 mm (0.16") |
| Spindle rpm | 1,078 rpm | 796 rpm |
| Cutting speed | 210 m/min | 210 m/min |
| Forwarding speed | 0.48 mm/rev | 0.5 mm/rev |
| Chip discharging amount | 403 cc/min | 420 cc/min |



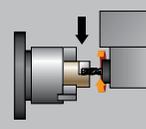
Boring
(Material : S45C)

| | LF2200M II | LF2600M II |
|-------------------|------------------------------|----------------------------|
| Machining depth | 3 mm (0.12") | 3 mm (0.12") |
| Spindle rpm | 1,500 rpm | 1,326 rpm |
| Cutting speed | 180 m/min | 250 m/min |
| Forwarding speed | 0.3 mm/rev | 0.3 mm/rev |
| Max. boring depth | 3.5 times of boring bar dia. | 4 times of boring bar dia. |



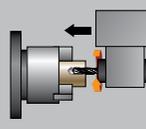
U-Drill
(Material : S45C)

| | LF2200M II | LF2600M II |
|-------------------------|------------------|------------------|
| Tool Dia. | Ø32 mm (Ø1 1/4") | Ø40 mm (Ø1 1/2") |
| Spindle rpm | 1,035 rpm | 828 rpm |
| Cutting Speed | 104 m/min | 104 m/min |
| Forwarding speed | 0.3 mm/rev | 0.3 mm/rev |
| Chip discharging amount | 250 cc/min | 312 cc/min |



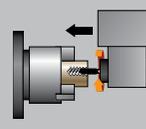
End Mill
(Material : S45C)

| | LF2200M II | LF2600M II |
|---------------------|----------------|----------------|
| Tool Dia. | Ø12 mm (Ø1/2") | Ø16 mm (Ø5/8") |
| Tool Rotation Speed | 1,000 rpm | 1,580 rpm |
| Cutting Speed | 100 m/min | 76 m/min |
| Forwarding speed | 0.1 mm/rev | 0.165 mm/rev |
| Machining depth | 12 mm | 16 mm |



Drill
(Material : S45C)

| | LF2200M II | LF2600M II |
|---------------------|----------------|----------------|
| Tool Dia. | Ø12 mm (Ø1/2") | Ø16 mm (Ø5/8") |
| Tool Rotation Speed | 2,758 rpm | 1,580 rpm |
| Forwarding speed | 0.18 mm/rev | 0.35 mm/rev |
| Cutting speed | 104 m/min | 80 m/min |



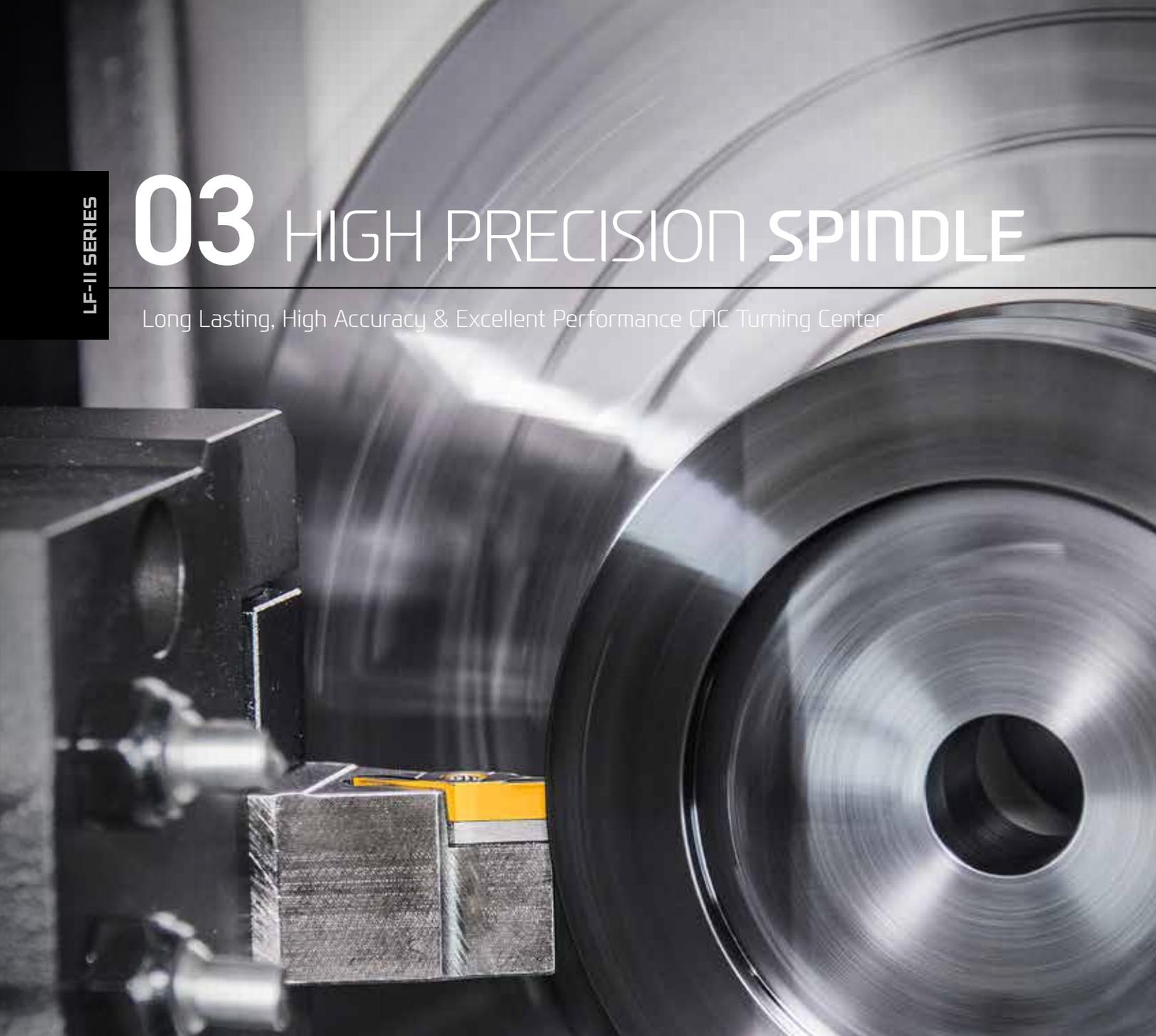
Tapping
(Material : S45C)

| | LF2200M II | LF2600M II |
|---------------------|-------------|------------|
| Tool Dia. | M12 | M20 |
| Tool Rotation Speed | 133 rpm | 88 rpm |
| Forwarding speed | 1.75 mm/rev | 2.5 mm/rev |
| Cutting speed | 5 m/min | 5 m/min |

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

03 HIGH PRECISION SPINDLE

Long Lasting, High Accuracy & Excellent Performance CNC Turning Center



LF2200 II Series – Spindle Specifications

● : High-Torque

| Chuck Size | Distance Between the Sp. | Spindle Speed | Motor (Max./Cont.) | Torque (Max.) | Spindle Nose |
|------------|--------------------------|---------------|---------------------|-----------------------|--------------|
| Opt : 6" | 370 mm (14.6") | 6,000 rpm | 15/11 kW (20/15 HP) | 127 N·m (93.7 lbf-ft) | A2-5 |
| Opt : 8" | | 4,500 rpm | | | |

LF2600 II Series – Spindle Specifications

| Chuck Size | Distance Between the Sp. | Spindle Speed | Motor (Max./Cont.) | Torque (Max.) | Spindle Nose |
|------------|--------------------------|---------------|-----------------------|--------------------------|--------------|
| Opt : 8" | 450 mm (17.7") | 4,000 rpm | 15/11 kW (20/15 HP) | 245.5 N·m (187.7 lbf-ft) | A2-6 |
| Opt : 10" | | 3,500 rpm | 18.5/15 kW (25/20 HP) | 403 N·m (297.2 lbf-ft) | |

HEAVY DUTY CUTTING & HIGH ACCURACY

SPINDLE

Spindle for Heavy Cutting

The spindle has the highest speed and torque in its class, which provides high performance during high speed/heavy duty cutting. Also the spindle is designed with [Ø110 (Ø4.3")] size P4 angular contact ball bearings to minimize thermal displacement and increase accuracy.

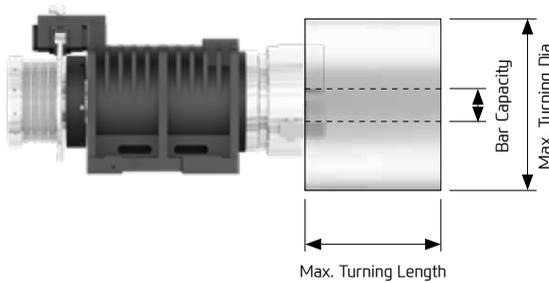


C-Axis Control ("M" Type)

C-axis of LF2600M II can be controlled to 0.001° which makes it possible to process various shapes.

Greatly Increased Ability of Simultaneous Interrupted Machining of Right/Left Sides

R/L covers are separately designed to minimize the transfer of vibrations between equipment from interrupted machining or rough machining.



| ITEM | LF2200 II Series | LF2600 II Series |
|---------------------|------------------|------------------|
| Max. Turning Length | 170mm (6.7") | 200mm (7.9") |
| Bar Capacity | Ø45mm (Ø1.8") | Ø65mm (Ø2.6") |
| Max. Turning Dia. | Ø260mm (Ø10.2") | Ø360mm (Ø14.2") |

SPINDLE PROCESSING FLOW

- 01** Parts requiring secondary operations are transferred from Z1 spindle to Z2 spindle
- 02** Same parts can be processed simultaneously by utilizing both spindles of Z1/Z2-axis with same parts.
- 03** Different parts can be processed simultaneously by utilizing both spindles of Z1/Z2-axis with various parts.



04 SERVO TURRET

High speed, High Accuracy, Highly Reliable Servo Turret

Standard Turret Specifications

| Model | No. of Tools | Tool Size (O.D/I.D) | Indexing Time |
|------------------|--------------|------------------------------|---------------|
| LF2200 II Series | 8 [10] EA | □ 20/Ø32 mm (□ 3/4"/Ø1 1/4") | 0.1 sec |
| LF2600 II Series | 10 [12] EA | □ 25/Ø40 mm (□ 1"/Ø1 1/2") | |

Mill Turret Specifications

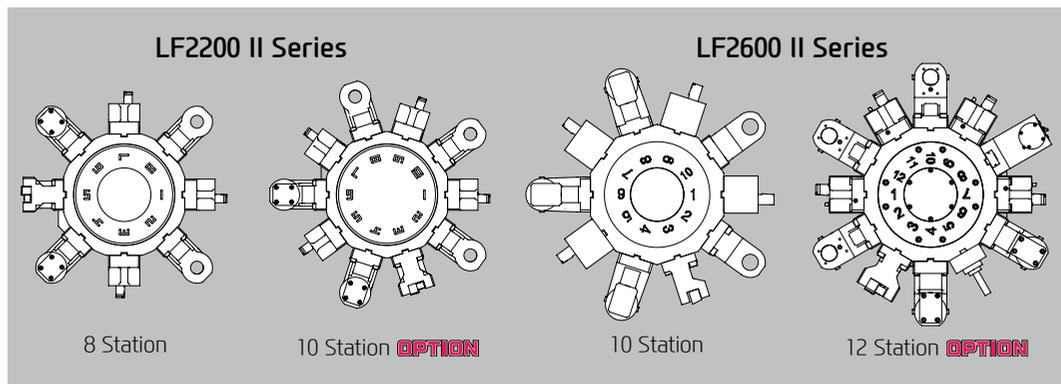
| Model | Speed rpm | Power (Max./Cont) | Torque (Max./Cont) | Type |
|-------------------|-------------|---------------------------|---------------------------------|-------|
| LF2200M II Series | 6,000 r/min | 2.75/1.85 kW [3.7/2.5 HP] | 26.2/11.9 N·m [19.3/8.8 lbf-ft] | BMT45 |
| LF2600M II Series | 5,000 r/min | 5.5/3.7 kW [7.4/5 HP] | 52.5/26 N·m [38.7/9.2 lbf-ft] | BMT55 |

VARIOUS DRIVEN PRECISION BMT TOOL HOLDERS

TURRET

Servo Turret

The turret of LF-II Series is applied with high performance AC servo motor, improving machining reliability. 3-piece coupling shows excellent performance in indexing. Moreover, powerful hydraulic hydraulic tool clamping minimizes tool tip deviation caused by load.



MILL TURRET

BMT Turret ('M' Type)

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



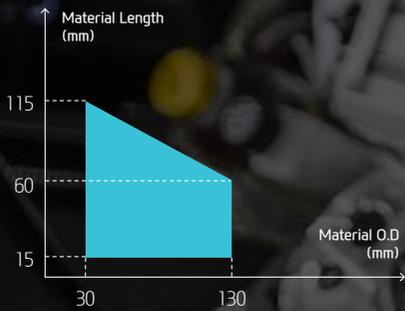
Mill Tool Holder

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.

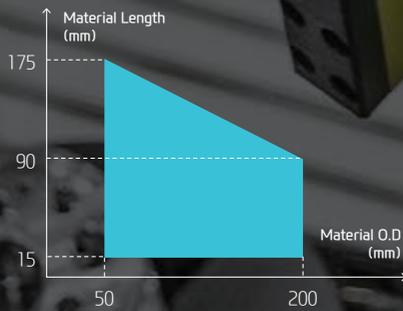
05 GANTRY AUTOMATION

Various Devices for User Convenience

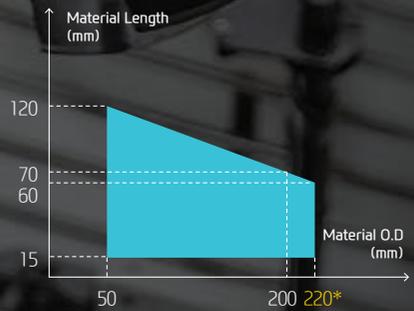
LF2200 II (3+3 kg)



LF2600 II (6+6 kg)



LF2600 II (10+10 kg)



Ø220* : Workstocker special production (Sales Inquiries)

| Model | Swivel Unit | Max. Handling Products |
|-------------------|-----------------------|-------------------------------|
| LF2200M II Series | 3+3 kg (6.6+6.6 lb) | Ø130 × L60 mm (Ø5.1" × L2.4") |
| LF2600M II Series | 6+6 kg (13.2+13.2 lb) | Ø200 × L90 mm (Ø7.9" × L3.5") |
| | 10+10 kg (22+22 lb) | Ø200 × L70 mm (Ø7.9" × L2.8") |

GANTRY LOADER SYSTEM

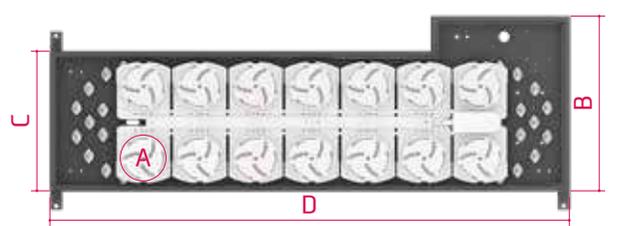
Gantry loader transfers raw material from in-stocker to machine automatically, starting machining process. Gantry automation provides good equipment access during operation and easy work monitoring, program modification and maintenance. In addition, small installation area facilitates optimized factory layout.

Gantry Specifications

| Model | | LF2200 II | LF2600 II |
|------------------|--------|---------------|----------------|
| Max. Work Weight | | 3 kg (6.6 lb) | 6 kg (13.2 lb) |
| Gantry Speed | X-axis | 210 m/min | 150 m/min |
| | Y-axis | 180 m/min | 130 m/min |
| | Z-axis | 60 m/min | |
| Loading Time | | 5.7 sec | 7.8 sec |

- ❖ LF2200 II can only work with 3kg.
- ❖ The above loading time may vary depending on changes in the weight of the workpiece.

Stocker Specifications



☆ Sales Inquiry

| Model | | LF2200 II | LF2600 II |
|--------------------|------|---|-------------------------------------|
| Work Size | | Ø120 (Ø4.7") | Ø180 (Ø7.1") |
| Max. Work Weight | | 35 kg (77.2 lb) / Pallet | |
| No. of Pallet (EA) | | Ellipse Type : 10, 12, 14, 16 / Ring Type : 8 | |
| Dimensions (A/B/C) | | Ø200/790/620 mm (Ø7.9"/31.1"/24.4") | Ø220/850/680 mm (Ø8.7"/33.5"/26.8") |
| Pallet (D) | 10EA | 1,830 mm (72") | 2,130 mm (83.9") |
| | 12EA | 2,060 mm (81.1") | 2,330 mm (91.7") |
| | 14EA | 2,270 mm (89.4") | 2,530 mm (99.6") |
| | 16EA | 2,480 mm (97.6") | 2,790 mm (109.8") |

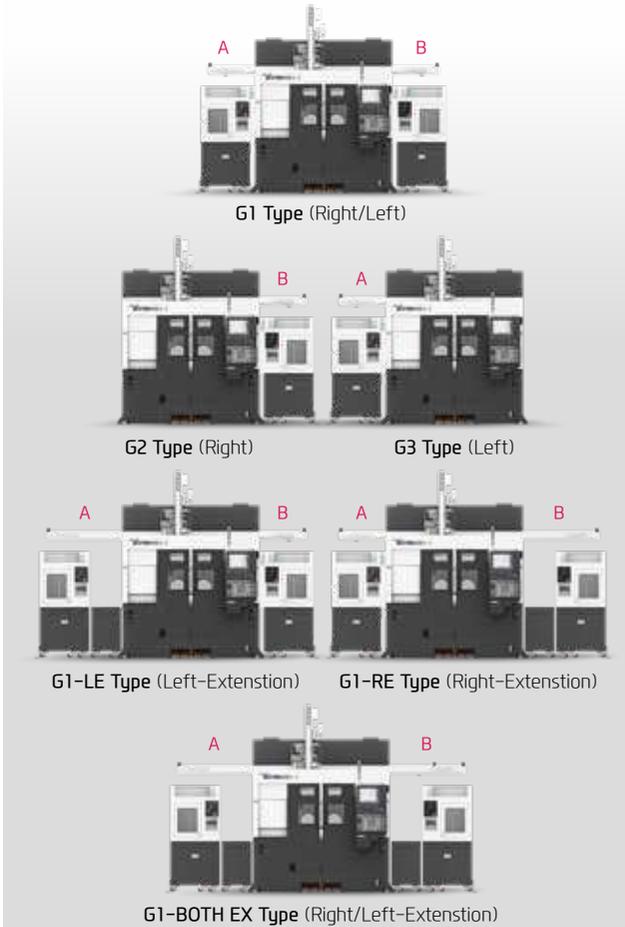
Separated Gantry

The gantry is completely separated from the R/L bed to minimize the transfer of vibrations between equipment during interrupted machining or gantry operation. (Ask our sales personnel.)

- ❖ Side Beam (Optional)

Customized Gantry Loader

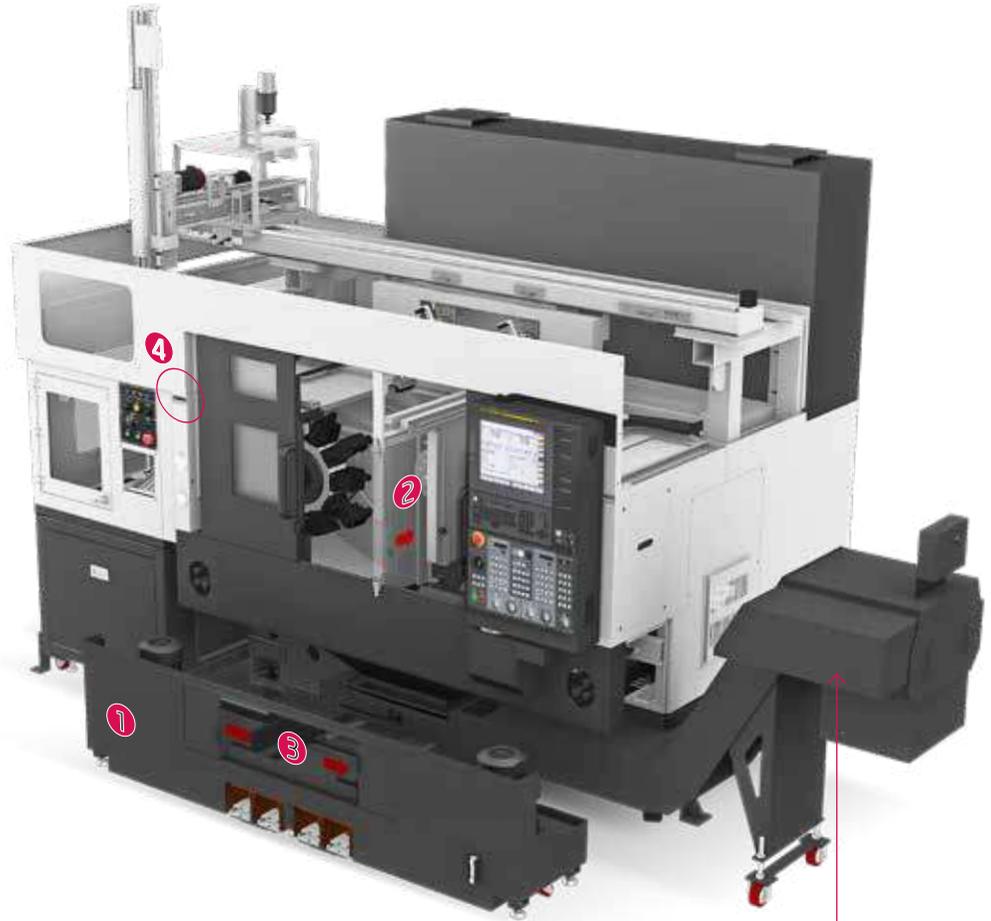
Consists of 5 default types to meet various customer needs. (Ask to sales associates for the details)



| ITEM | Travel | | | Dimensions | |
|------------|----------------|-------------|-------------|---------------|---------------|
| | X-axis | Y-axis | Z-axis | A | B |
| G1 | 3,260 (128.3") | 700 (27.6") | 310 (12.2") | 450 (17.7") | 450 (17.7") |
| G2 | | | | - | 800 (31.5") |
| G3 | | | | 800 (31.5") | - |
| G1-RE | | | | 450 (17.7") | 1,110 (43.7") |
| G1-LE | | | | 1,110 (43.7") | 450 (17.7") |
| G1-BOTH EX | | | | 1,110 (43.7") | 1,110 (43.7") |

06 USER CONVENIENCE

Various Devices for User Friendly



CHIP DISPOSAL SOLUTION

1. Separation of Coolant Tank

You can separate only the coolant tank without separating the chip conveyor.

2. Sliding Separate Cover

A forward/backward sliding method allows a broader work space to be secured, leading to excellent maintainability.

3. Improved Chip Removal Convenience

It is designed with an opening to easily remove chips, waste oil and the chip filter from the front of the equipment.

4. Automatic Removal of Chips on Top of Equipment

It comes with an automatic brushing function for the removal of residuals such as chips/debris building up on the top of the equipment and a lateral chip tray that can be removed to maintain cleanliness on top by removing debris and residuals.

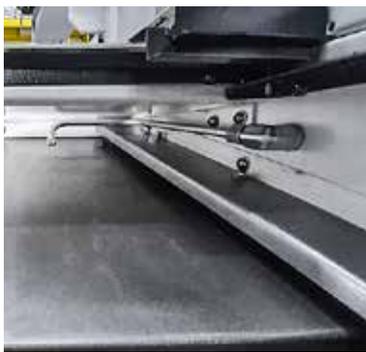
Side Chip Conveyor (G2/G3 Type)

If there is not enough installation space in the back, you can install side-type chip conveyor. <If side-type chip conveyor is applied, only 1 stalker may be applied.>

| | |
|-------------|-----------------------------------|
| Hinge | Roughing, Long chip, chip complex |
| Scraper | Finely broken chip blown out |
| Drum Filter | Powder, micro chip |

Optional

COOLANT UNIT

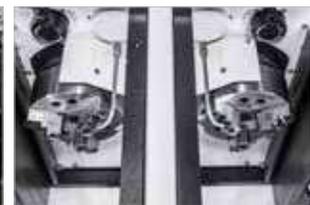


Bed Flushing Coolant

Bed flushing coolant is applied on top and bottom of the Z-axis slide as a default to easily process residual chips.



Standard Coolant (Nozzle)



Chuck Coolant (Upper Chuck)



Gun Coolant



Air Gun

HIGH PRECISION SYSTEM



Removable-type Q-Setter

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



Linear Scale

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



Work Probe

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

07 HYUNDAI WIA FANUC – Smart Plus

The Compatible All-round Control



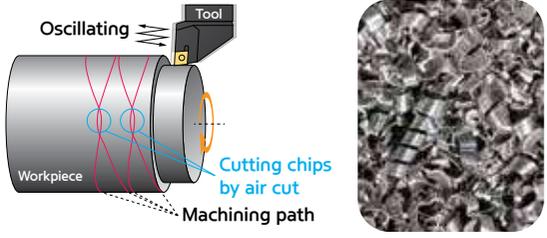
15" Touch-type Monitor as a standard

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



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.)



HW-GLM (HYUNDAI WIA Gantry Loader Manager)

Set the position coordinates and the loader driver support features such as easy and convenient way to provide the user operating the loader to be used to support the software.



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

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

| Spindle | | LF2200 II Series | LF2200M II Series |
|---|-------------------------------|------------------|-------------------|
| Main Spindle | 6" | ○ | ○ |
| Hollow Chuck 3 Jaw | 8" | ○ | ○ |
| Main Spindle | 6" | ○ | ○ |
| Solid Chuck 3 Jaw | 8" | ○ | ○ |
| Without Chuck | | ● | ● |
| Standard Soft Jaw (1set) | | ○ | ○ |
| 2 Steps Hyd. Pressure Device | | ○ | ○ |
| 2 Steps Foot Switch | | ○ | ○ |
| 2 Steps Hyd. Pressure Device | | ○ | ○ |
| Spindle Inside Stopper | | ☆ | ☆ |
| Chuck Open/Close Confirmation Device | | ● | ● |
| Main Spindle 5° Index | | ☆ | ☆ |
| Cs-Axis (0.001°) | | - | ● |
| Turret | | | |
| 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 | | ● | ● |
| O.D Extension Holder | For Out-Dia | ☆ | ☆ |
| Angle Head | | - | ☆ |
| Coolant & Air Blow | | | |
| Standard Coolant (Nozzle) | | ● | ● |
| Chuck Coolant (Upper Chuck) | | ○ | ○ |
| Bed Flushing Coolant | | ● | ● |
| Gun Coolant | | ○ | ○ |
| Through Spindle Coolant (Only for Special Chuck) | | ☆ | ☆ |
| Turnmill Through Coolant | | - | ☆ |
| Chuck Air Blow | | ○ | ○ |
| Tail Stock Air Blow | | ☆ | ☆ |
| Air Gun | | ○ | ○ |
| Through Spindle Air Blow (Only for Special Chuck) | | ☆ | ☆ |
| High Pressure Coolant | 1.5Bar | ● | ● |
| | 6Bar | ○ | ○ |
| | 10Bar | ○ | ○ |
| Power Coolant System (For Automation) | | ☆ | ☆ |
| Coolant Chiller | | ☆ | ☆ |
| Chip Disposal | | | |
| Coolant Tank | 255 ℓ | ● | ● |
| Chip Conveyor (Hinge/Scraper) | Front (Rear) | ○ | ○ |
| | Front (Right) | ○ | ○ |
| Special Chip Conveyor (Drum Filter) | | ☆ | ☆ |
| Chip Wagon | Standard (180 ℓ [47.5 gal]) | ○ | ○ |
| | Swing (200 ℓ [52.8 gal]) | ○ | ○ |
| | Large Size (330 ℓ [87.2 gal]) | ○ | ○ |
| | Customized | ☆ | ☆ |
| Safety Device | | | |
| Total Splash Guard | | ● | ● |
| Chuck Hydraulic Pressure Maintenance Interlock | | ● | ● |
| Hyd. Device | | | |
| Standard Hyd. Cylinder | Hollow | ● | ● |
| | Solid | ○ | ○ |
| Standard Hyd. Unit | 35bar(507.6psi) / 15 ℓ (4gal) | ● | ● |
| Environment | | | |
| Air Conditioner | | ○ | ○ |
| Oil Mist Collector | | ○ | ○ |
| Oil Skimmer (Only for Chip Conveyor) | | ○ | ○ |
| MQL (Minimum Quantity Lubrication) | | ☆ | ☆ |

| Electric Device | | LF2200 II Series | LF2200M II Series |
|---|------------------|------------------|-------------------|
| 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 | ○ | ○ |
| Auto Power Off | | ○ | ○ |
| Measurement | | | |
| Manual Q-Setter (Basic) | | ☆ | ☆ |
| Manual Q-Setter (Renishaw) | | ○ | ○ |
| Automatic Q-Setter (Renishaw) | | - | - |
| Work Close Confirmation Device (Only for Special Chuck) | TACO | ☆ | ☆ |
| | SMC | ☆ | ☆ |
| Work Setter | | ☆ | ☆ |
| Linear Scale | X axis | ○ | ○ |
| | Z axis | ○ | ○ |
| Coolant Level Sensor (Only for Chip Conveyor) | | ☆ | ☆ |
| Measurement System for Automation | | ☆ | ☆ |
| Fixture & Automation | | | |
| Auto Door | | ○ | ○ |
| Auto Shutter | | ○ | ○ |
| Sub Operation Pannel | | ☆ | ☆ |
| Bar Feeder Interface | | - | - |
| Bar Feeder | | - | - |
| Extra M-Code 4ea | | ○ | ○ |
| Automation Interface | | ○ | ○ |
| I/O Extension (IN & OUT) | 16 Contact | ○ | ○ |
| | 32 Contact | ○ | ○ |
| Turret Work Pusher (For Automation) | | | |
| | | ○ | ○ |
| Gantry Automation | G1 (Both) | ○ | ○ |
| | G2 (Right) | ○ | ○ |
| | G3 (Left) | ○ | ○ |
| | G1-RE | ○ | ○ |
| | G1-LE | ○ | ○ |
| | G1-BOTH EX | ○ | ○ |
| Gantry Swivel Unit | 3kg | ○ | ○ |
| | 6kg | - | - |
| In/Out Stocker (Ellipse Type) 10/12/14/16 Pos | | ○ | ○ |
| In/Out Stocker (Ring Type) 8/10/12/14 Pos | | ☆ | ☆ |
| Turn Over | | ○ | ○ |
| ΠG Chute | | ○ | ○ |
| Gantry Side Beam | | ○ | ○ |
| S/W | | | |
| Dialogue Program (HW-DPRO) | | ○ | ○ |
| DNC software (HW-eDNC) | | ○ | ○ |
| Machine Monitoring System (HW-MMS Cloud) | | ☆ | ☆ |
| Smart Guide-i : FANUC | | ● | ● |
| Smart S/W | | ☆ | ☆ |
| ETC | | | |
| Tool Box | | ● | ● |
| Customized Color | Need Munsel Flo. | ☆ | ☆ |
| CAD & CAM | | ☆ | ☆ |

❖ 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

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

| Spindle | | LF2600 II Series | LF2600M II Series |
|---|--------------------------------|------------------|-------------------|
| Main Spindle | 8" | ○ | ○ |
| Hollow Chuck 3 Jaw | 10" | ○ | ○ |
| Main Spindle | 8" | ○ | ○ |
| Solid Chuck 3 Jaw | 10" | ○ | ○ |
| Without Chuck | | ● | ● |
| Standard Soft Jaw (1set) | | ○ | ○ |
| 2 Steps Hyd. Pressure Device | | ○ | ○ |
| 2 Steps Foot Switch | | ○ | ○ |
| 2 Steps Hyd. Pressure Device | | ○ | ○ |
| Spindle Inside Stopper | | ☆ | ☆ |
| Chuck Open/Close Confirmation Device | | ● | ● |
| Main Spindle 5° Index | | ☆ | ☆ |
| Cs-Axis (0.001°) | | - | ● |
| Turret | | | |
| 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 | | ● | ● |
| O.D Extension Holder | For Out-Dia | ☆ | ☆ |
| Angle Head | | - | ☆ |
| Coolant & Air Blow | | | |
| Standard Coolant (Nozzle) | | ● | ● |
| Chuck Coolant (Upper Chuck) | | ○ | ○ |
| Bed Flushing Coolant | | ○ | ○ |
| Gun Coolant | | ○ | ○ |
| Through Spindle Coolant (Only for Special Chuck) | | ☆ | ☆ |
| Turnmill Through Coolant | | - | ☆ |
| Chuck Air Blow | | ○ | ○ |
| Tail Stock Air Blow | | ☆ | ☆ |
| Air Gun | | ○ | ○ |
| Through Spindle Air Blow (Only for Special Chuck) | | ☆ | ☆ |
| High Pressure Coolant | 4.5Bar | ● | ● |
| | 6Bar | ○ | ○ |
| | 10Bar | ○ | ○ |
| Power Coolant System (For Automation) | | ☆ | ☆ |
| Coolant Chiller | | ☆ | ☆ |
| Chip Disposal | | | |
| Coolant Tank | 255 ℓ | ● | ● |
| Chip Conveyor (Hinge/Scraper) | Front (Rear) | ○ | ○ |
| | Front (Right) | ○ | ○ |
| Special Chip Conveyor (Drum Filter) | | ☆ | ☆ |
| Chip Wagon | Standard (180 ℓ [47.5 gal]) | ○ | ○ |
| | Swing (200 ℓ [52.8 gal]) | ○ | ○ |
| | Large Size (330 ℓ [87.2 gal]) | ○ | ○ |
| | Customized | ☆ | ☆ |
| Safety Device | | | |
| Total Splash Guard | | ● | ● |
| Chuck Hydraulic Pressure Maintenance Interlock | | ● | ● |
| Hyd. Device | | | |
| Standard Hyd. Cylinder | Hollow | ● | ● |
| | Solid | ○ | ○ |
| Standard Hyd. Unit | 35bar (507.6psi) / 15 ℓ (4gal) | ● | ● |
| Environment | | | |
| Air Conditioner | | ○ | ○ |
| Oil Mist Collector | | ○ | ○ |
| Oil Skimmer (Only for Chip Conveyor) | | ○ | ○ |
| MQL (Minimum Quantity Lubrication) | | ☆ | ☆ |

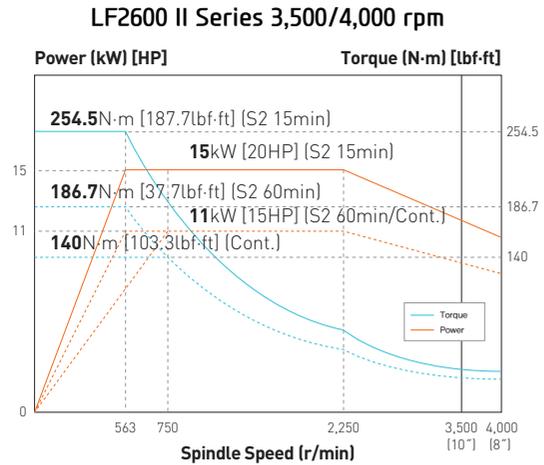
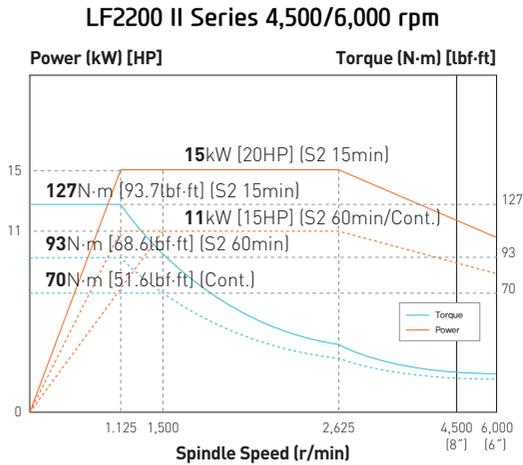
| Electric Device | | LF2600 II Series | LF2600M II Series |
|---|------------------|------------------|-------------------|
| Call Light | 1Color : ● | ● | ● |
| Call Light & Buzzer | 3Color : ● ● ● B | ○ | ○ |
| Electric Cabinet Light | | ○ | ○ |
| Remote MPG | | ○ | ○ |
| Work Counter | Digital | ○ | ○ |
| Total Counter | Digital | ○ | ○ |
| Tool Counter | Digital | ○ | ○ |
| Multi Tool Counter | Digital | ○ | ○ |
| Electric Circuit Breaker | | ○ | ○ |
| AVR (Auto Voltage Regulator) | | ☆ | ☆ |
| Transformer | 40kVA | ○ | ○ |
| Auto Power Off | | ○ | ○ |
| Measurement | | | |
| Manual Q-Setter (Basic) | | ☆ | ☆ |
| Manual Q-Setter (Renishaw) | | ○ | ○ |
| Automatic Q-Setter (Renishaw) | | - | - |
| Work Close Confirmation Device (Only for Special Chuck) | TACO | ☆ | ☆ |
| | SMC | ☆ | ☆ |
| Work Setter | | ☆ | ☆ |
| Linear Scale | X axis | ○ | ○ |
| | Z axis | ○ | ○ |
| Coolant Level Sensor (Only for Chip Conveyor) | | ☆ | ☆ |
| Measurement System for Automation | | ☆ | ☆ |
| Fixture & Automation | | | |
| Auto Door | | ○ | ○ |
| Auto Shutter | | ○ | ○ |
| Sub Operation Pannel | | ☆ | ☆ |
| Bar Feeder Interface | | - | - |
| Bar Feeder | | - | - |
| Extra M-Code 4ea | | ○ | ○ |
| Automation Interface | | ○ | ○ |
| I/O Extension (IN & OUT) | 16 Contact | ○ | ○ |
| | 32 Contact | ○ | ○ |
| Turret Work Pusher (For Automation) | | ○ | ○ |
| Gantry Automation | G1 (Both) | ○ | ○ |
| | G2 (Right) | ○ | ○ |
| | G3 (Left) | ○ | ○ |
| | G1-RE | ○ | ○ |
| | G1-LE | ○ | ○ |
| | G1-BOTH EX | ○ | ○ |
| Gantry Swivel Unit | 3kg | ○ | ○ |
| | 6kg | ○ | ○ |
| In/Out Stocker (Ellipse Type) 10/12/14/16 Pos | | ○ | ○ |
| In/Out Stocker (Ring Type) 8/10/12/14 Pos | | ☆ | ☆ |
| Turn Over | | ○ | ○ |
| TIG Chute | | ○ | ○ |
| Gantry Side Beam | | ○ | ○ |
| S/W | | | |
| Dialogue Program (HW-DPRO) | | ○ | ○ |
| DNIC software (HW-eDNC) | | ○ | ○ |
| Machine Monitoring System (HW-MMS Cloud) | | ☆ | ☆ |
| Smart Guide-i : FAIUC | | ● | ● |
| Smart S/W | | ☆ | ☆ |
| ETC | | | |
| Tool Box | | ● | ● |
| Customized Color | Need Munsel No. | ☆ | ☆ |
| CAD & CAM | | ☆ | ☆ |

◆ Thermal Displacement Compensation device is recommended, when more than 6 bar of high pressure coolant is applied, for the high quality machining.

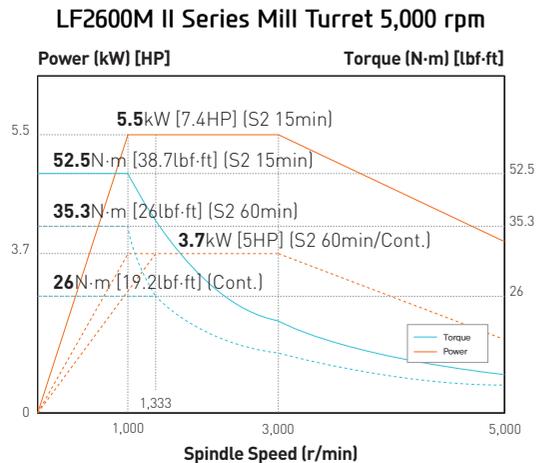
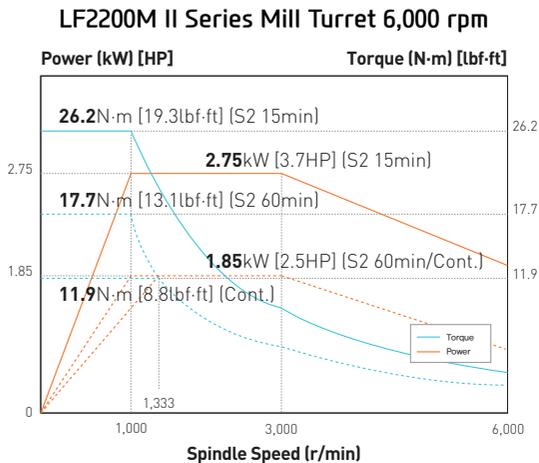
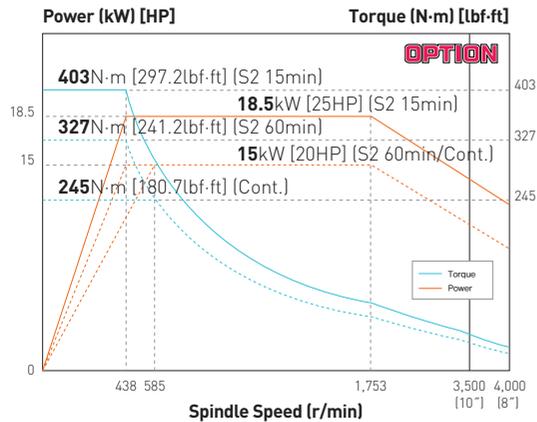
Specifications are subject to change without notice for improvement. / Please refer to the S/W catalog (iRS) for details by S/W product.

SPECIFICATIONS

Spindle Output/Torque Diagram



LF2600 II Series 3,500/4,000 rpm (High-Torque)

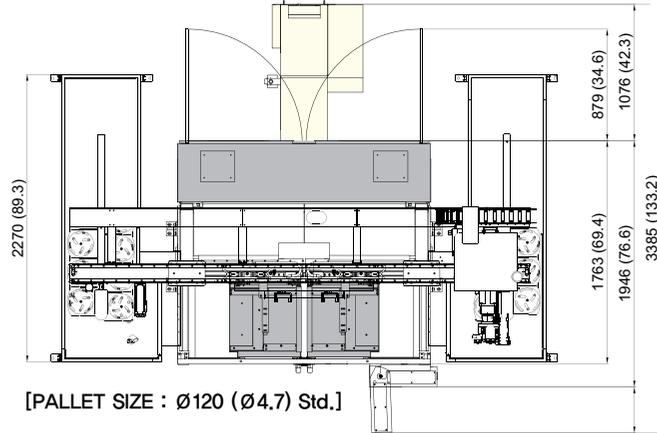


SPECIFICATIONS

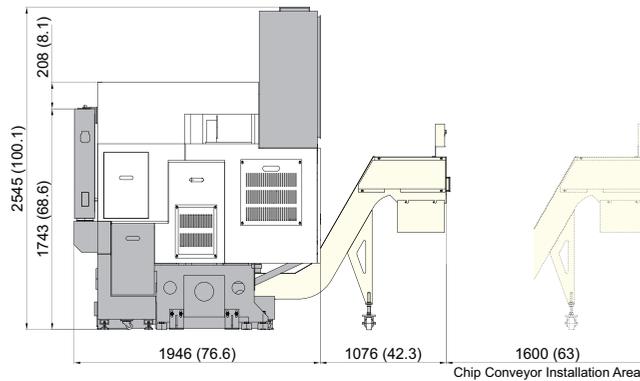
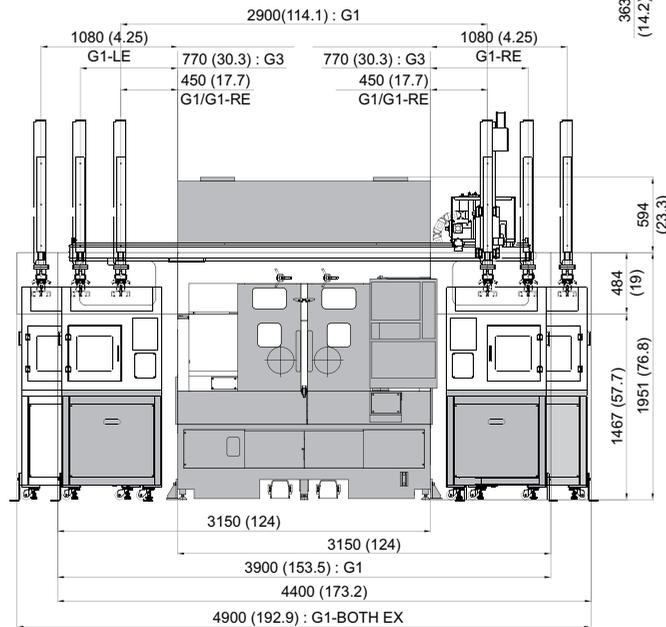
External Dimensions

unit : mm(in)

LF2200 II Series



[PALLET SIZE : Ø120 (Ø4.7) Std.]

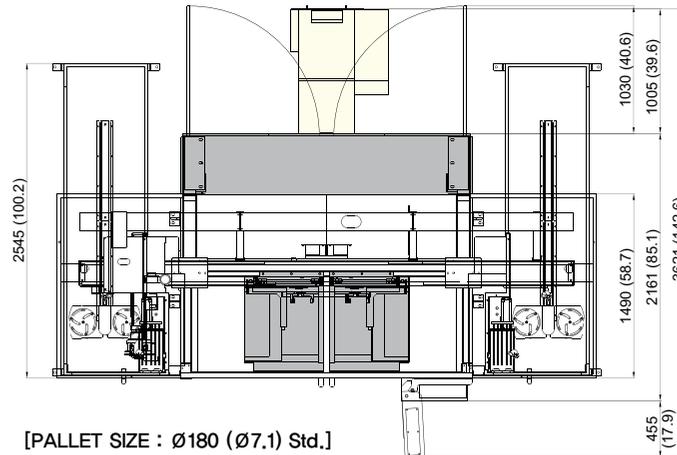


SPECIFICATIONS

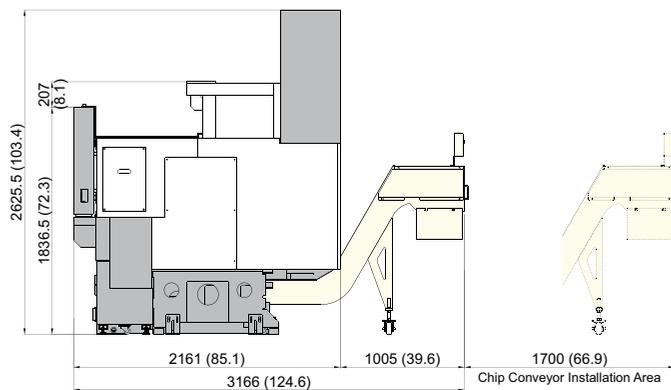
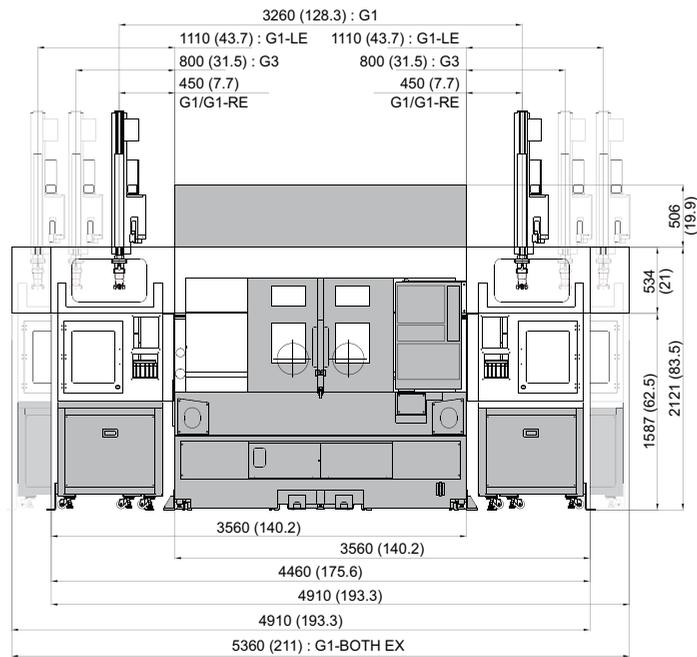
External Dimensions

unit : mm(in)

LF2600 II Series



[PALLET SIZE : Ø180 (Ø7.1) Std.]

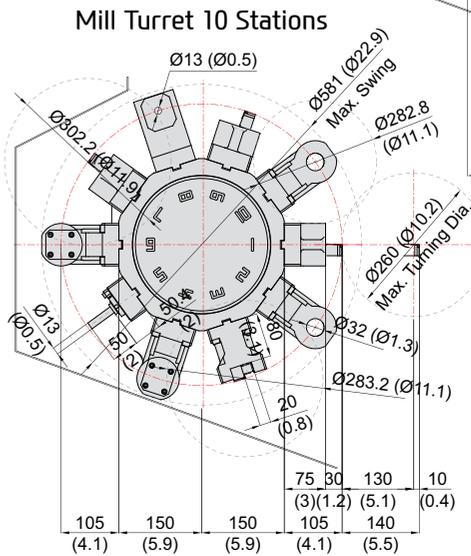
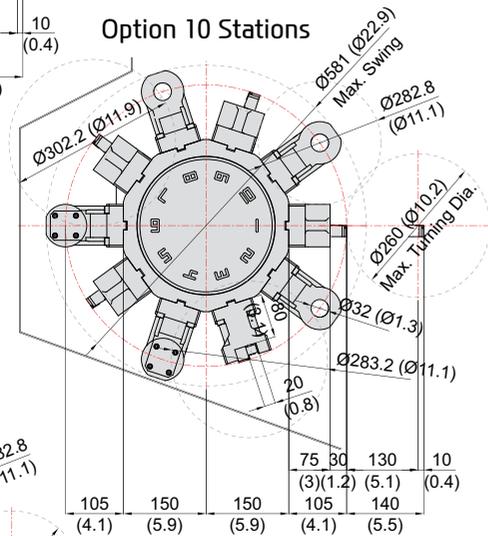
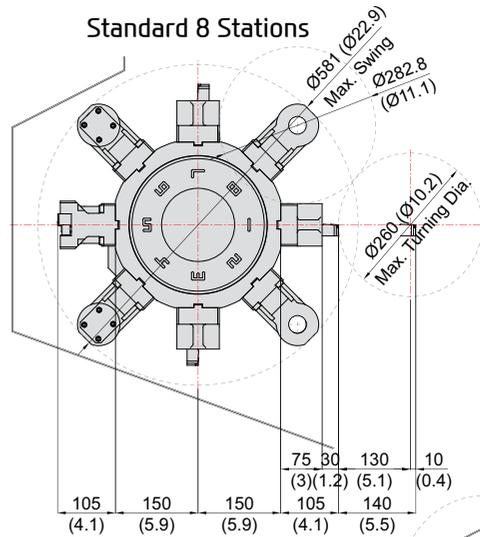


SPECIFICATIONS

Interference

unit : mm(in)

LF2200 II Series



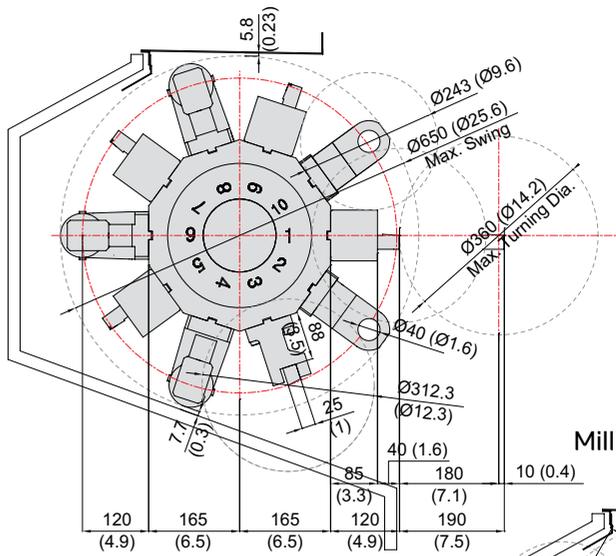
SPECIFICATIONS

Interference

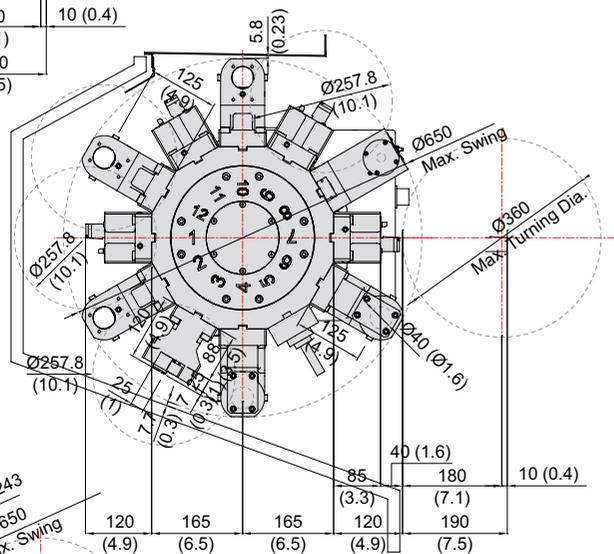
unit : mm(in)

LF2600 II Series

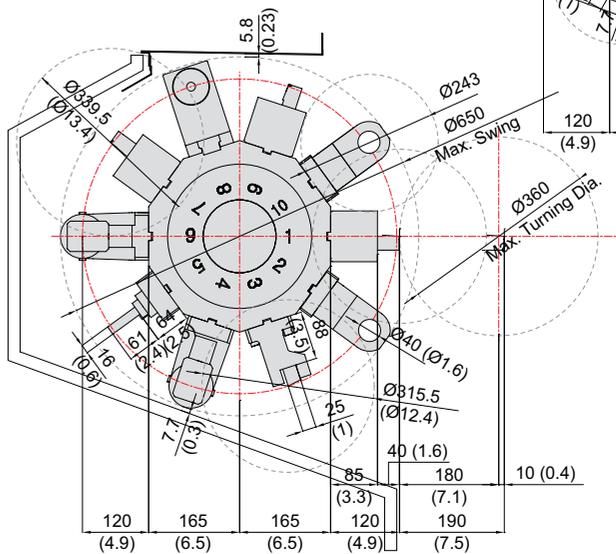
Standard 10 Stations



Mill Turret 12 Stations



Mill Turret 10 Stations

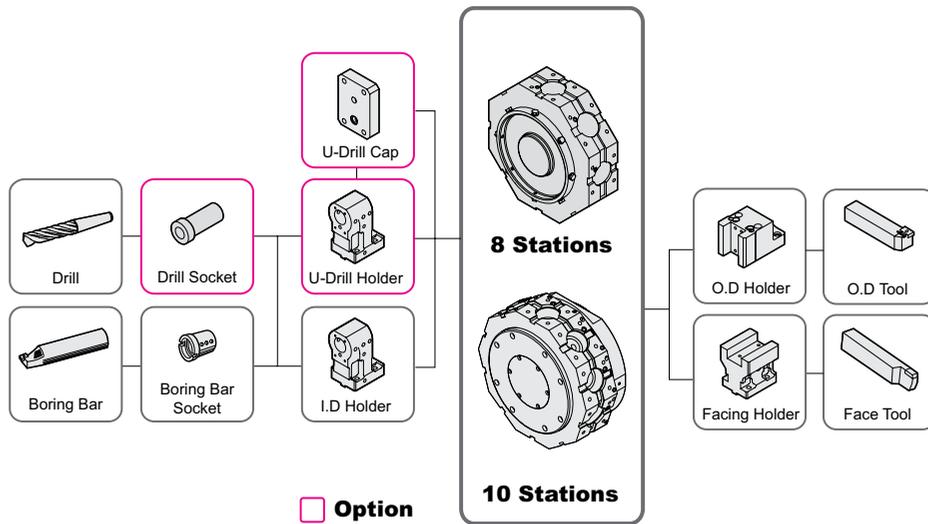


SPECIFICATIONS

Tooling System

unit : mm(in)

LF2200 II Series



Tooling Parts Detail

| ITEM | | | 8 Stations | | 10 Stations | | |
|----------------|----------------------|-------------|------------|-----------|-------------|-----------|---|
| | | | mm Unit | inch Unit | mm Unit | inch Unit | |
| Turning Holder | O.D Holder | Right/Left | 6 | 6 | 8 | 8 | |
| | Facing Holder | | 2 | 2 | 2 | 2 | |
| Boring Holder | I.D Holder | Std. | 4 | 4 | 6 | 6 | |
| | U-Drill Holder | | 4 | 4 | 4 | 4 | |
| Driven Holder | Straight Mill Holder | Std. | - | - | - | - | |
| | Angular Mill Holder | Std. | - | - | - | - | |
| Socket | Boring | Ø8 (Ø5/16") | 2 | 2 | 2 | 2 | |
| | | Ø10 (Ø3/8") | 2 | 2 | 2 | 2 | |
| | | Ø12 (Ø1/2") | 2 | 2 | 2 | 2 | |
| | | Ø16 (Ø5/8") | 2 | 2 | 2 | 2 | |
| | | Ø20 (Ø3/4") | 2 | 2 | 2 | 2 | |
| | | Ø25 (Ø1") | 2 | 2 | 2 | 2 | |
| | Drill | MT 2 | | - | - | - | - |
| | | MT 1 × MT 2 | | - | - | - | - |
| | ER Collet | | - | - | - | - | |

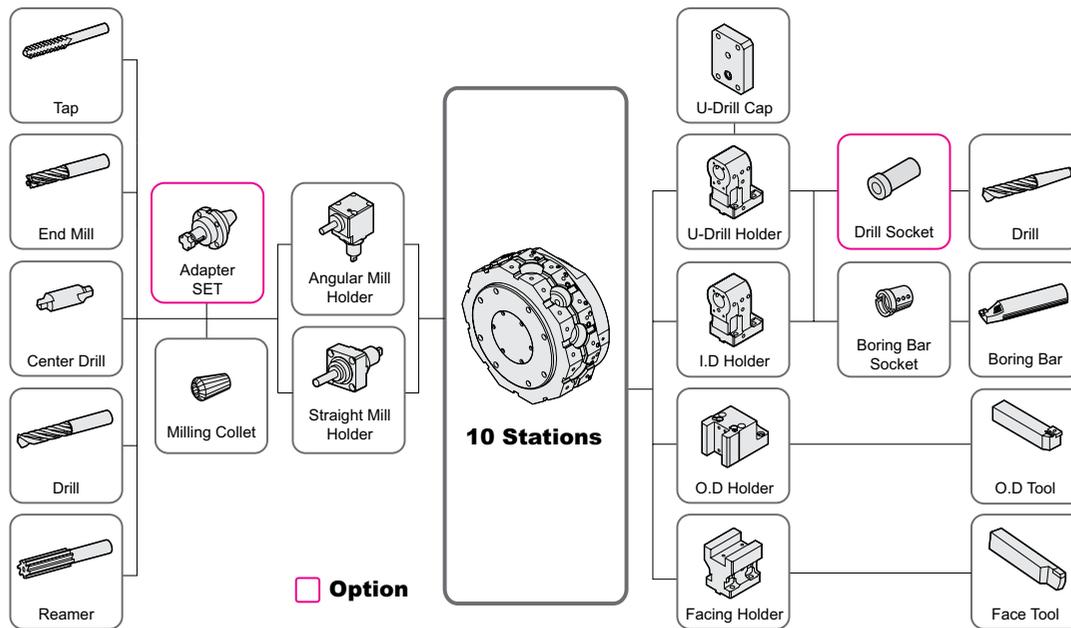
Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Tooling System

unit : mm(in)

LF2200M II Series



Tooling Parts Detail

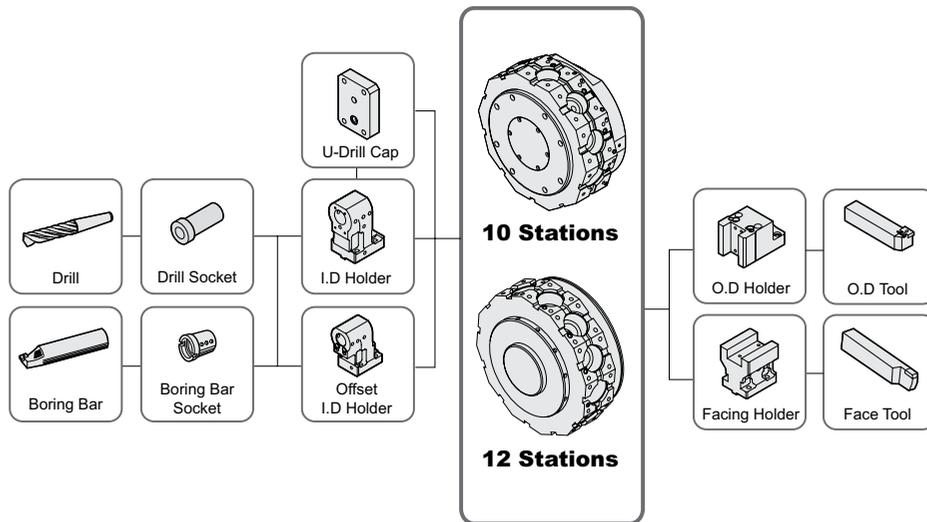
| ITEM | 10 Stations | | | | |
|----------------|----------------------|-------------|-------|-------|---|
| | mm Unit | inch Unit | | | |
| Turning Holder | O.D Holder | Right/Left | 6 | 6 | |
| | Facing Holder | | 2 | 2 | |
| Boring Holder | I.D Holder | Std. | 4 | 4 | |
| | U-Drill Holder | | 4 | 4 | |
| Driven Holder | Straight Mill Holder | Std. | 2 | 2 | |
| | Angular Mill Holder | Std. | 2 | 2 | |
| Socket | Boring | Ø8 (Ø5/16") | 2 | 2 | |
| | | Ø10 (Ø3/8") | 2 | 2 | |
| | | Ø12 (Ø1/2") | 2 | 2 | |
| | | Ø16 (Ø5/8") | 2 | 2 | |
| | | Ø20 (Ø3/4") | 2 | 2 | |
| | | Ø25 (Ø1") | 2 | 2 | |
| | Drill | MT 2 | | - | - |
| | | MT 1 × MT 2 | | - | - |
| ER Collet | | | 2 set | 2 set | |

SPECIFICATIONS

Tooling System

unit : mm(in)

LF2600 II Series



Tooling Parts Detail

| ITEM | | | 10 Stations | | 12 Stations | |
|----------------|----------------------|---------------|-------------|-----------|-------------|-----------|
| | | | mm Unit | inch Unit | mm Unit | inch Unit |
| Turning Holder | O.D Holder | Right/Left | 8 | 8 | 10 | 10 |
| | Facing Holder | | 2 | 2 | 2 | 2 |
| Boring Holder | I.D Holder | Std. | 4 | 4 | 4 | 4 |
| | | Offset | 6 | 6 | 8 | 8 |
| Driven Holder | Straight Mill Holder | Std. | - | - | - | - |
| | Angular Mill Holder | Std. | - | - | - | - |
| Socket | Boring | Ø10 (Ø3/8") | 2 | 2 | 2 | 2 |
| | | Ø12 (Ø1/2") | 2 | 2 | 2 | 2 |
| | | Ø16 (Ø5/8") | 2 | 2 | 2 | 2 |
| | | Ø20 (Ø3/4") | 2 | 2 | 2 | 2 |
| | | Ø25 (Ø1") | 2 | 2 | 2 | 2 |
| | | Ø32 (Ø1 1/4") | 2 | 2 | 2 | 2 |
| | Drill | MT 2 | 2 | 2 | 2 | 2 |
| | | MT 1 × MT 2 | 2 | 2 | 2 | 2 |
| | ER Collet | | - | - | - | - |

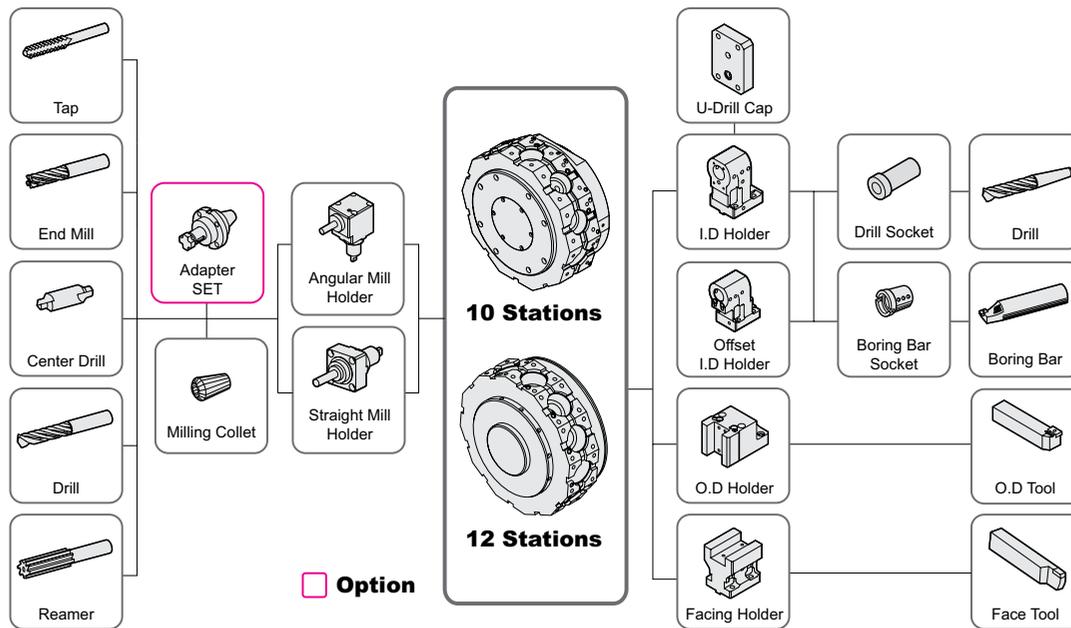
Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Tooling System

unit : mm(in)

LF2600M II Series



Tooling Parts Detail

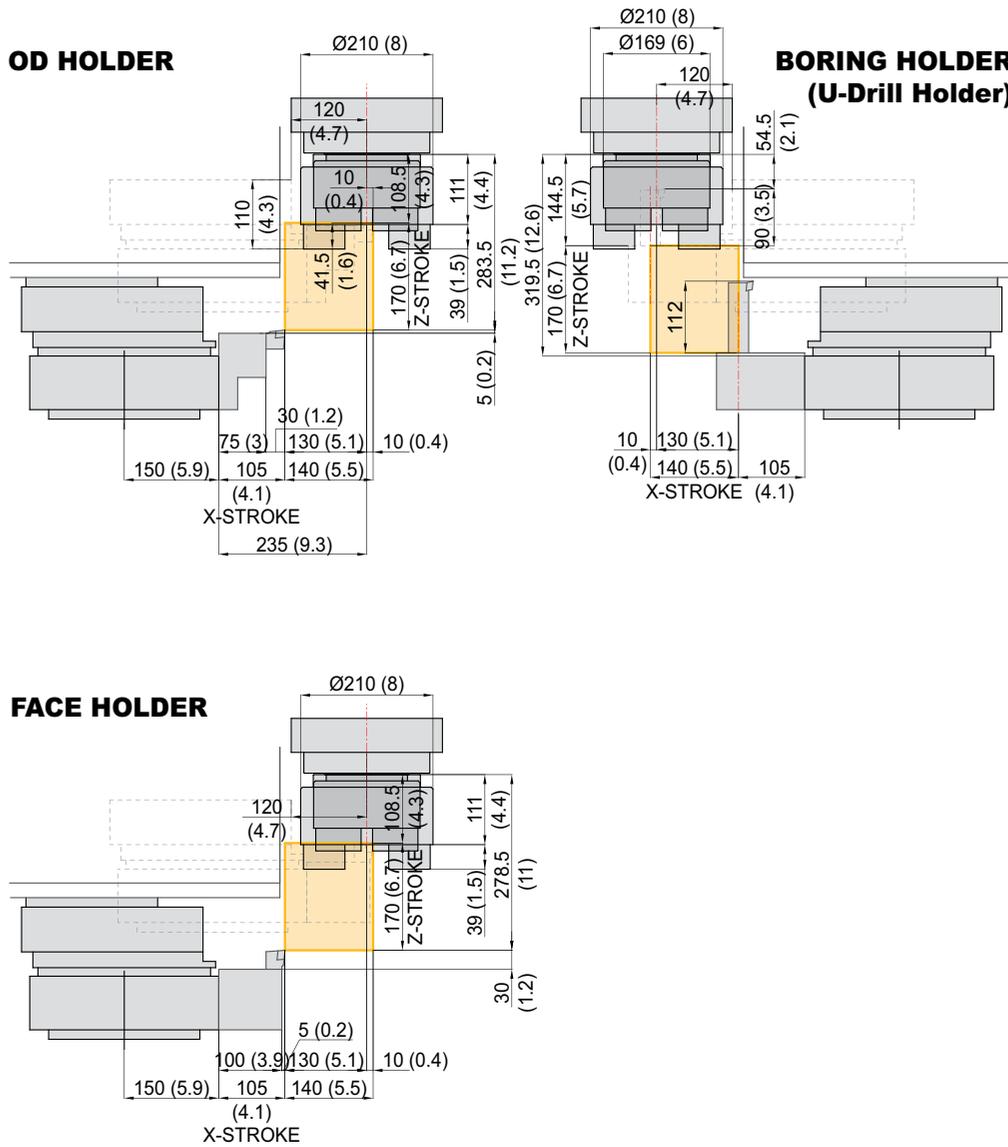
| ITEM | | | 10 Stations | | 12 Stations | | |
|----------------|----------------------|---------------|-------------|-----------|-------------|-----------|---|
| | | | mm Unit | inch Unit | mm Unit | inch Unit | |
| Turning Holder | O.D Holder | Right/Left | 6 | 6 | 8 | 8 | |
| | Facing Holder | | 2 | 2 | 2 | 2 | |
| Boring Holder | I.D Holder | Std. | 4 | 4 | 4 | 4 | |
| | | Offset | 4 | 4 | 6 | 6 | |
| Driven Holder | Straight Mill Holder | Std. | 2 | 2 | 2 | 2 | |
| | Angular Mill Holder | Std. | 2 | 2 | 2 | 2 | |
| Socket | Boring | Ø10 (Ø3/8") | 2 | 2 | 2 | 2 | |
| | | Ø12 (Ø1/2") | 2 | 2 | 2 | 2 | |
| | | Ø16 (Ø5/8") | 2 | 2 | 2 | 2 | |
| | | Ø20 (Ø3/4") | 2 | 2 | 2 | 2 | |
| | | Ø25 (Ø1") | 2 | 2 | 2 | 2 | |
| | | Ø32 (Ø1 1/4") | 2 | 2 | 2 | 2 | |
| | Drill | MT 2 | | 2 | 2 | 2 | 2 |
| | | MT 1 × MT 2 | | 2 | 2 | 2 | 2 |
| | ER Collet | | 2 set | 2 set | 2 set | 2 set | |

SPECIFICATIONS

Tooling Travel Range

unit : mm(in)

LF2200 II Series

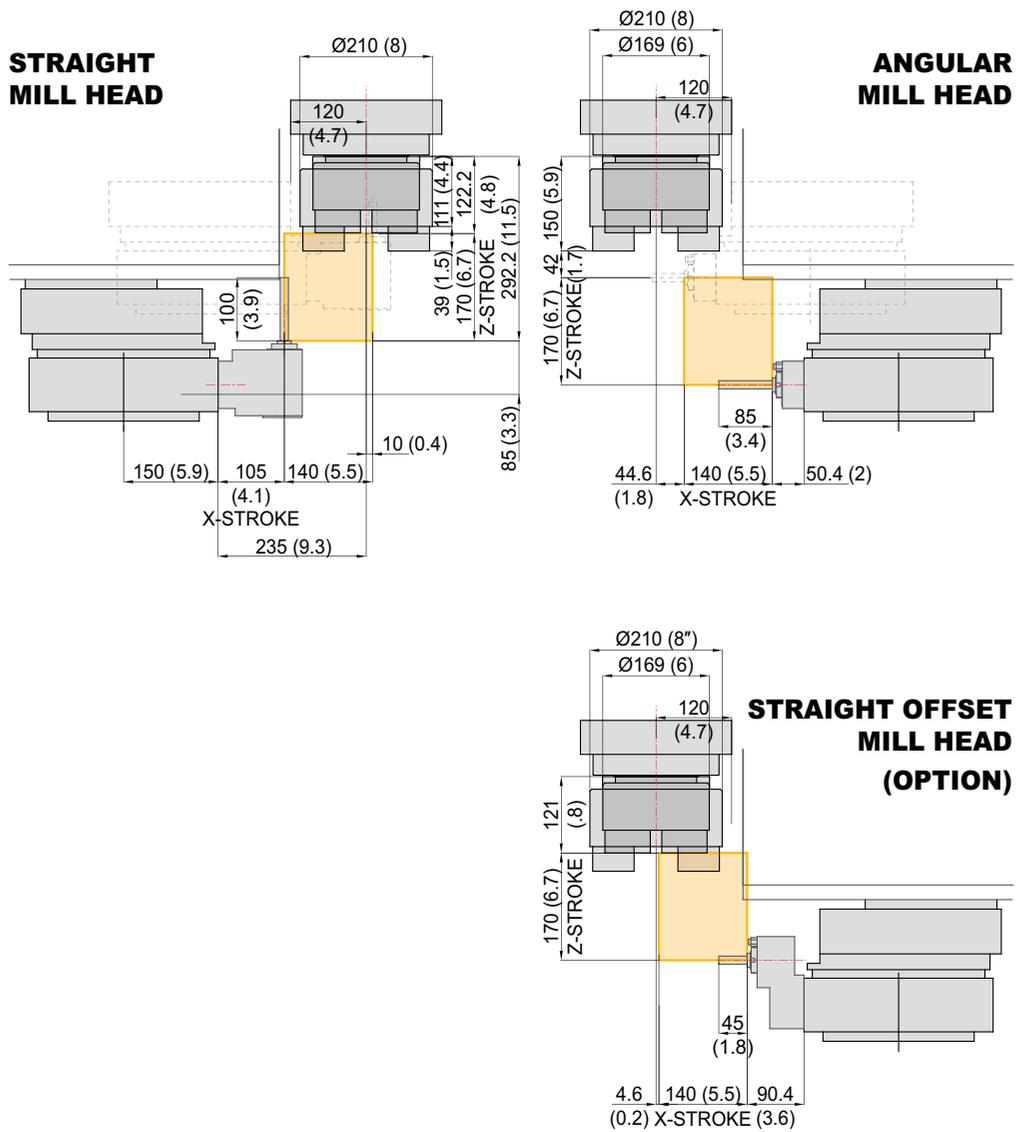


SPECIFICATIONS

Tooling Travel Range

unit : mm(in)

LF2200M II Series

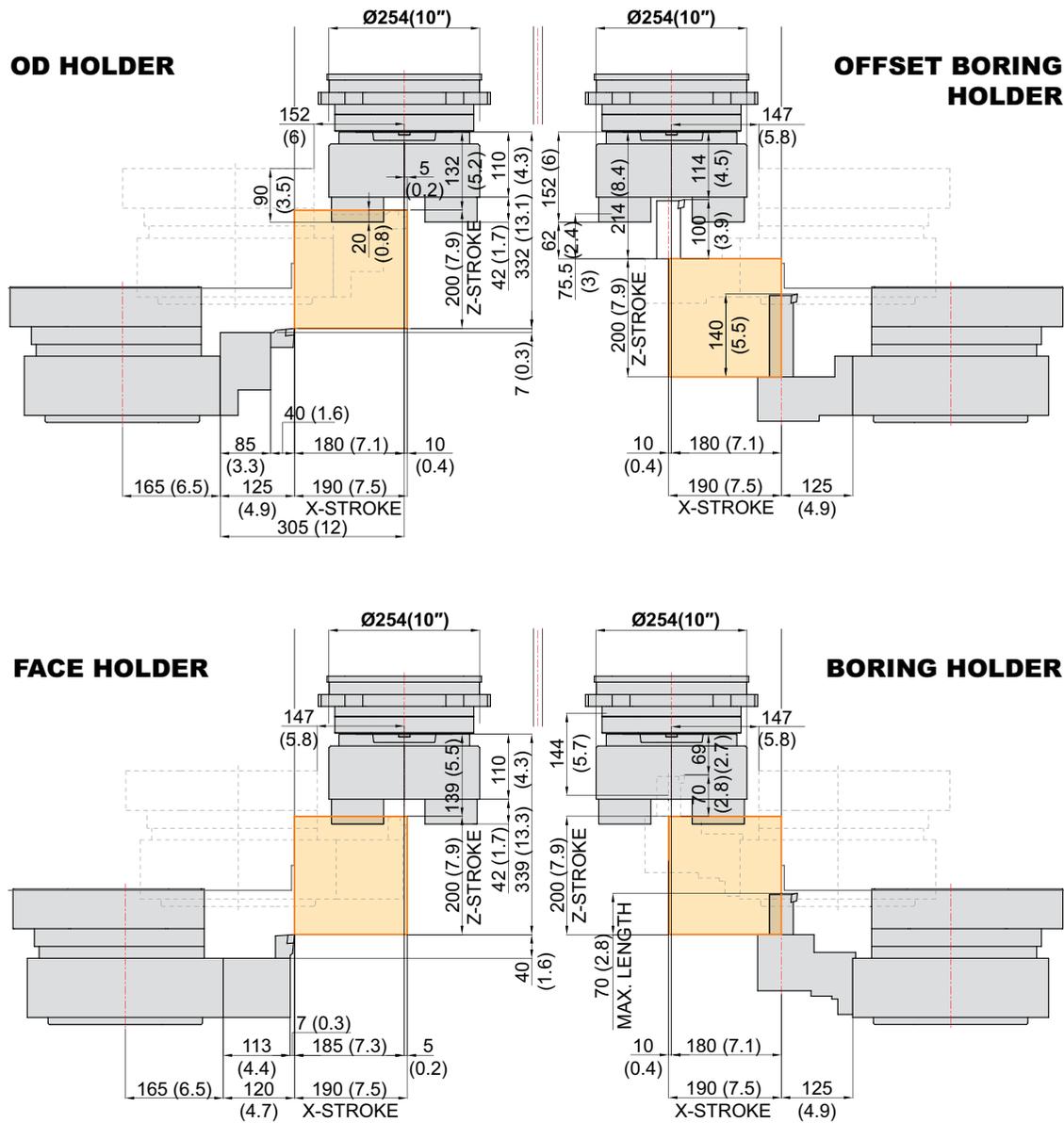


SPECIFICATIONS

Tooling Travel Range

unit : mm(in)

LF2600 II Series

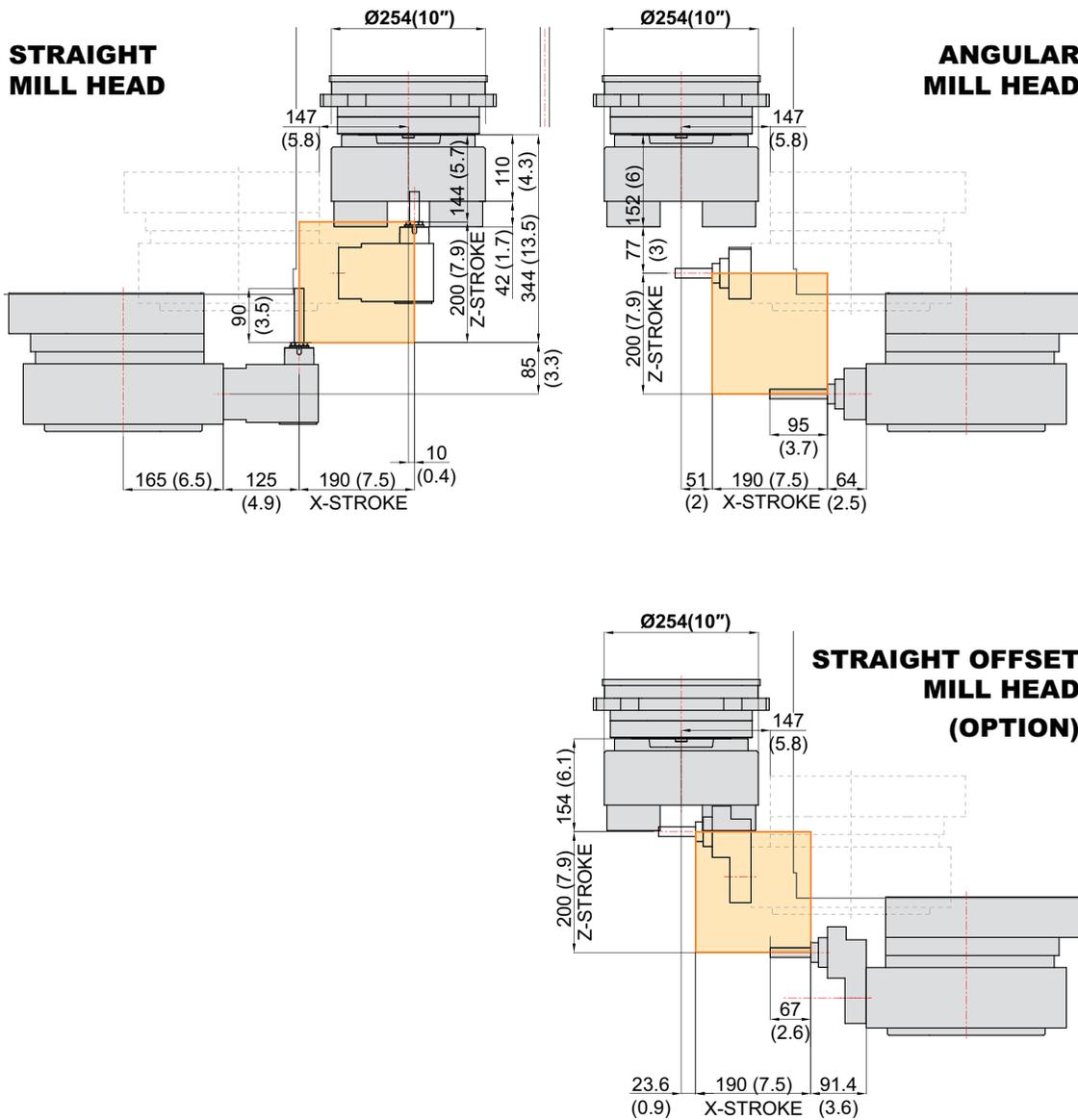


SPECIFICATIONS

Tooling Travel Range

unit : mm(in)

LF2600M II Series



SPECIFICATIONS

Specifications

[] : Option

| ITEM | | LF2200 II | LF2200Quick II | LF2200M II | LF2200MQuick II | |
|-----------------|------------------------------|-----------------|--|----------------------|-----------------|-------------------|
| CAPACITY | Z-axis Slide Cover Swing | mm(in) | Ø276 | | | |
| | Max. Turning Dia. | mm(in) | Ø260 | | | |
| | Max. Turning Length | mm(in) | 170 | | | |
| | Bar Capacity | mm(in) | Ø45 | | | |
| SPINDLE | Chuck Size | inch | [Option : 6" / 8"] | | | |
| | Spindle Bore | mm(in) | Ø46 | | | |
| | Distance Between the Spindle | mm(in) | 370 | | | |
| | Spindle Speed (rpm) | r/min | [6" : 6,000 / 8" : 4,500] | | | |
| | Motor (Max/Cont.) | kW(HP) | [15/11 (20/15)] | | | |
| | Torque (Max/Cont.) | N·m(lbf·ft) | [127/70 (93.7/51.6)] | | | |
| | Spindle Type | - | BELT | | | |
| | Spindle Nose | - | A2-5 | | | |
| C-axis Indexing | deg | - | 0.001° | | | |
| FEED | Travel (X/Z) | mm(in) | 140/170 (5.5/6.7) | | | |
| | Rapid Traverse Rate (X/Z) | m/min(ipm) | 24/24 (945/945) | 24/36 (945/1,417) | 24/24 (945/945) | 24/36 (945/1,417) |
| | Slide Type | - | BOX GUIDE | ROLLER LM GUIDE | BOX GUIDE | ROLLER LM GUIDE |
| TURRET | No. of Tools | ea | 8 [10] | | 10 | |
| | Tool Size | O.D | mm(in) | □ 20 (□ 3/4") | | |
| | | I.D | mm(in) | Ø32 (Ø1 1/4") | | |
| | Indexing Time | sec | 0.10 | | | |
| LIVE TOOL | Motor (Max/Cont.) | kW(HP) | - | 2.75/1.85 (3.7/2.5) | | |
| | Milling Tool Speed (rpm) | r/min | - | 6,000 | | |
| | Torque (Max/Cont.) | N·m(lbf·ft) | - | 26.2/11.9 (19.3/8.8) | | |
| | Collet Size | mm(in) | - | Ø13 (ER20) | | |
| | Type | - | - | BMT45 | | |
| TANK CAPACITY | Coolant Tank | ℓ (gal) | 160 (42.3) | | | |
| | Lubricating Tank | ℓ (gal) | 4 (1.1) | | | |
| POWER SUPPLY | Electric Power Supply | kVA | 40 | | | |
| | Thickness of Power Cable | mm ² | Over 50 | | | |
| | Voltage | V/Hz | 220/60 (200/50*) | | | |
| MACHINE | Floor Space (L×W) | mm(in) | 2,000×1,946 (78.7×76.6) [G1 Type : 3,900×1,946 (153.5×76.6)] | | | |
| | Height | mm(in) | 2,545 (100.2) [G1 Type : 3,070 (20.9)] | | | |
| | Weight | kg(lb) | 5,200 (11,464) | | | |
| 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 ● : High-Torque

| ITEM | | LF2600 II | LF2600Quick II | LF2600M II | LF2600MQuick II | |
|---------------|------------------------------|-----------------|---|---------------------|-----------------|-------------------|
| CAPACITY | Z-axis Slide Cover Swing | mm(in) | Ø370 (Ø14.6") | | | |
| | Max. Turning Dia. | mm(in) | Ø360 (Ø14.2") | | | |
| | Max. Turning Length | mm(in) | 200 (7.9") | | | |
| | Bar Capacity | mm(in) | Ø65 (Ø2.6") | | | |
| SPINDLE | Chuck Size | inch | [Option : 8" / 10"] | | | |
| | Spindle Bore | mm(in) | Ø75 (Ø3") | | | |
| | Distance Between the Spindle | mm(in) | 450 (17.7") | | | |
| | Spindle Speed (rpm) | r/min | [8" : 4,000 / 10" : 3,500] | | | |
| | Motor (Max/Cont.) | kW(HP) | [15/11 (20/15)] [High-Torque : 18.5/15 (25/20)] | | | |
| | Torque (Max/Cont.) | N·m(lbf·ft) | [254.5/140 (187.7/103.3)] [High-Torque : 403/245 (297.2/180.7)] | | | |
| | Spindle Type | - | BELT | | | |
| | Spindle Nose | - | A2-6 | | | |
| | C-axis Indexing | deg | - | 0.001° | | |
| FEED | Travel (X/Z) | mm(in) | 190/200 (7.5/7.9) | | | |
| | Rapid Traverse Rate (X/Z) | m/min(ipm) | 24/24 (945/945) | 24/36 (945/1,417) | 24/24 (945/945) | 24/36 (945/1,417) |
| | Slide Type | - | BOX GUIDE | ROLLER LM GUIDE | BOX GUIDE | ROLLER LM GUIDE |
| TURRET | No. of Tools | ea | 10 [12] | | | |
| | Tool Size | O.D | mm(in) | □25 (1") | | |
| | | I.D | mm(in) | Ø40 (Ø1 1/2") | | |
| | Indexing Time | sec | 0.10 | | | |
| LIVE TOOL | Motor (Max/Cont.) | kW(HP) | - | 5.5/3.7 (7.4/5) | | |
| | Milling Tool Speed (rpm) | r/min | - | 5,000 | | |
| | Torque (Max/Cont.) | N·m(lbf·ft) | - | 52.5/26 (38.7/19.2) | | |
| | Collet Size | mm(in) | - | Ø16 (ER25) | | |
| | Type | - | - | BMT55 | | |
| TANK CAPACITY | Coolant Tank | ℓ (gal) | 255 (67.4) | | | |
| | Lubricating Tank | ℓ (gal) | 4 (1.1) | | | |
| POWER SUPPLY | Electric Power Supply | kVA | 40 | | | |
| | Thickness of Power Cable | mm ² | Over 50 | | | |
| | Voltage | V/Hz | 220/60 (200/50*) | | | |
| MACHINE | Floor Space (L×W) | mm(in) | 2,360×3,073 (92.9"×121") [G1 Type : 4,360×3,073 (171.7"×121")] | | | |
| | Height | mm(in) | 2,626 (103.4") [G1 Type : 3,438 (135.4")] | | | |
| | Weight | kg(lb) | 6,500 (14,330) | | | |
| PC | Controller | - | HYUNDAI WIA FANUC - Smart Plus | | | |

CONTROLLER

HYUNDAI WIA FANUC – 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) 5 axis (X, Z, B, C, A) / 6 axis (X, Z, Y, B, C, A) 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) C, A axis : 0.001 deg |
| Least input increment | X, Z, Y, B axis : 0.001 mm (0.0001 inch) 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 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 Jog : 0~2,000 mm/min (79 ipm) Manual handle : x1, x10, x100 pulses Reference position return |
| Cutting Feed command | Direct input F code |
| Feedrate override | 0 ~ 200% (10% Unit) |
| Rapid traverse override | 1%, F25%, 50%, 100% |
| Override cancel | |
| Feed per minute | G98 |
| Feed per revolution | G99 |
| Look-ahead block | 1 block |
| Program input | |
| Tape Code | EIA / ISO |
| Optional block skip | 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 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.



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