



**SMEC**

# **SLV** Series

VERTICAL TURNING CENTER

## **SLV Series**

SLV 500/M  
SLV 800/M  
SLV 1000/M



### Extensive machining capacity lineup

The extensive lineup of up to a maximum  $\varnothing 1,000(39.37)$ "mm turning diameter and 32-inch chuck ensures customer satisfaction

### High rigidity bed and column design

The bed and column are made of Meehanite to minimize thermal growth and the ribbed design provides excellent vibration dampening. The low friction box way design supports high precision and heavy duty cutting

# SLV Series

## SLV 500/800/1000/M

### High Rigidity, High Precision Vertical Turning Center Designed to Provide Both Heavy Duty and High Precision Machining

- Superb structural design supporting both best-in-class heavy duty and precision machining
- High precision heavy duty cutting is ensured by the box guideways and thermal growth minimizing structural design
- The large screen OP Panel enhances operator ease of use
- The high-speed indexing turret significantly reduces non-cutting time while increasing productivity

[ ] : Option

| Category                    |            | SLV 500/M            | SLV 800/M                                  | SLV 1000/M           |
|-----------------------------|------------|----------------------|--------------------------------------------|----------------------|
| Chuck size                  | inch       | 12"   15"            | 18"[15]   21"   24"                        | 24"   32"            |
| Swing over bed              | mm(inch)   | 700(27.56)           | 890(35.04)                                 | 1,100(43.31)         |
| Max turning length          | mm(inch)   | 495(19.49)           | 800(31.50)                                 | 955(37.60)           |
| Spindle bore                | mm(inch)   | 60(2.37)             | 104(4.10)                                  | 100(3.94)            |
| Main spindle speed          | rpm        | 3,000   2,000        | 2,000   1,800   1,500                      | 1,800   800          |
| Travels (X/Z)               | mm(inch)   | 317/495(12.49/19.49) | 440/800(17.33/31.50)                       | 540/955(21.26/37.60) |
| Rapid traverse (X/Z)        | m/min(ipm) | 20/20(787.41/787.41) | 20/20(787.41/787.41)                       | 20/20(787.41/787.41) |
| Motor (cont./max) [Gearbox] | kW(Hp)     | 18.5/26(24.81/34.87) | 22/30[30/37]<br>(29.51/40.24[40.24/49.62]) | 37/55(49.62/73.76)   |

#### Effective chip discharge design

The large capacity flushing system minimizes chip build-up and the steeply sloped bed design ensures effective chip discharge.

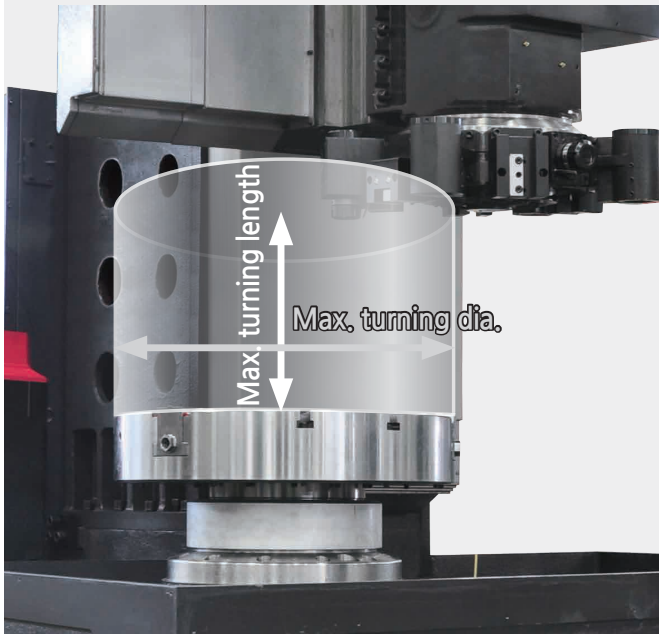
#### Ease of use

Ease of use is enhanced with the OP Panel's large 15" LCD screen and easy to maintain coolant tank.

# SLV Series

## VERTICAL TURNING CENTER

### Extensive machining capacity lineup



| Model      | Unit     | Swing over bed | Max turning dia. | Max turning length |
|------------|----------|----------------|------------------|--------------------|
| SLV 500/M  | mm(inch) | Ø700(27.56)    | Ø500(19.69)      | 495(19.49)         |
| SLV 800/M  | mm(inch) | Ø890(35.04)    | Ø830(32.68)      | 800(31.50)         |
| SLV 1000/M | mm(inch) | Ø1,100(43.31)  | Ø1,000(39.38)    | 955(37.60)         |

The SLV Series offers an extensive lineup up to a maximum Ø1,000(39.38")mm turning diameter and 32-inch chuck.

#### SLV 500/M

Max turning dia./length  
**Ø500/495**mm(19.69/19.49 inch)

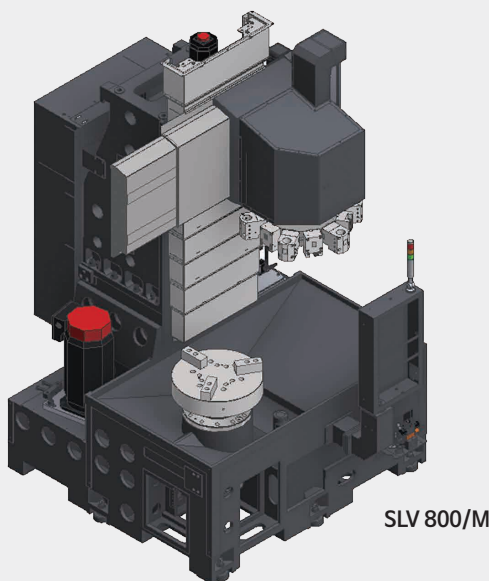
#### SLV 800/M

Max turning dia./length  
**Ø830/800**mm(32.68/31.50 inch)

#### SLV 1000/M

Max turning dia./length  
**Ø1000/955**mm(39.38/37.60 inch)

### High rigidity bed and column design

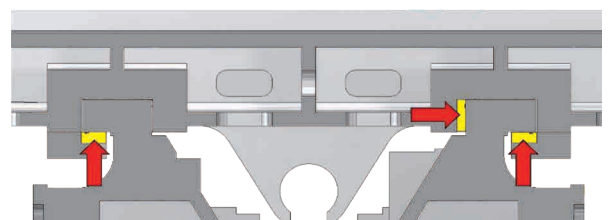


SLV 800/M

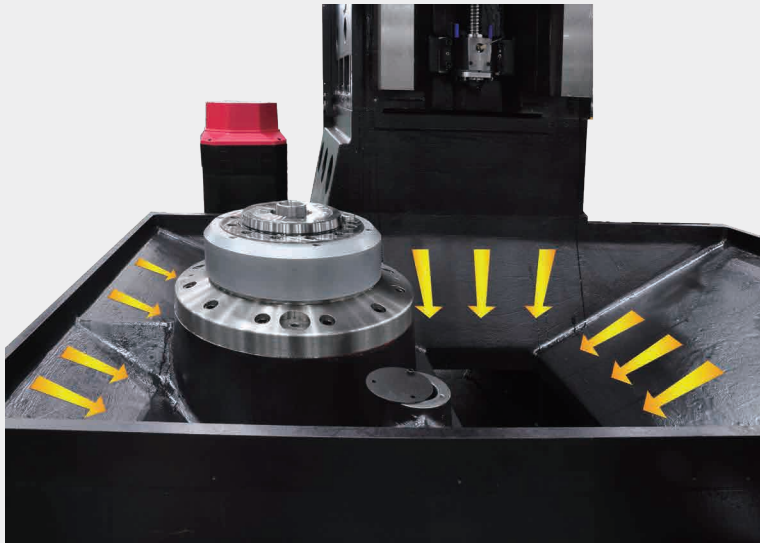
| Model      | Main chuck size | Travel [mm(inch)] |            | Rapid traverse [m/min(ipm)] |            |
|------------|-----------------|-------------------|------------|-----------------------------|------------|
|            |                 | X-axis            | Z-axis     | X-axis                      | Z-axis     |
| SLV 500/M  | 12/15           | 317(12.49)        | 495(19.49) | 20(787.41)                  | 20(787.41) |
| SLV 800/M  | 18/21/24"       | 440(17.33)        | 800(31.50) | 20(787.41)                  | 20(787.41) |
| SLV 1000/M | 24/32"          | 540(21.26)        | 955(37.60) | 20(787.41)                  | 20(787.41) |

All travel axes are comprised of high rigidity box guideways enabling heavy duty cutting and superb productivity

The set of 3 gibs for each axis allows for safe operation without loss of cutting precision and provides easier maintenance.



## Effective chip discharge design



### Convenient chip discharge Large capacity coolant flushing system

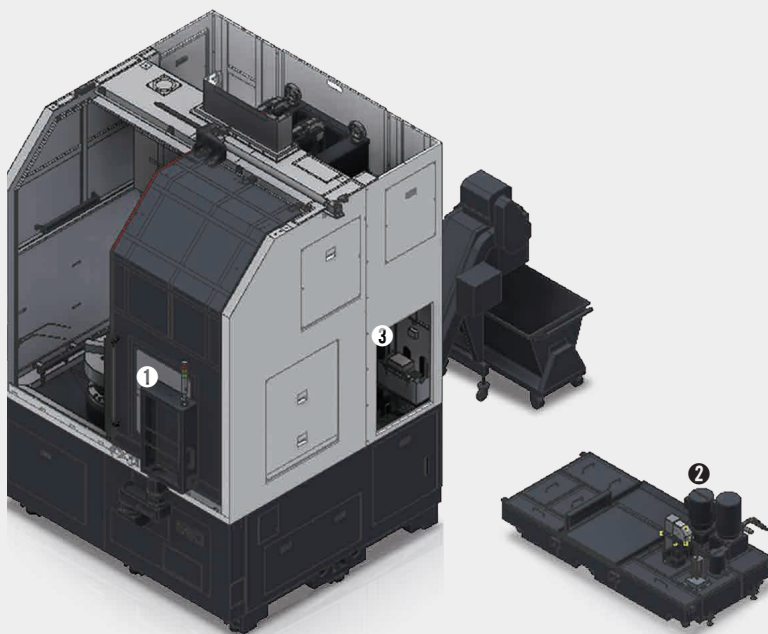
The large capacity flushing system minimizes chip build-up and the steeply sloped bed design ensures effective chip discharge.

Discharge capacity :

**165** L/min(SLV 500/M, SLV 800/M)

**220** L/min(SLV 1000/M)

## Ease of use



### ① User-centric Large 15" OP Panel

The QWERTY-type keyboard and high visibility buttons and effective button placement enhances ease of use

### ② Easy coolant tank maintenance

When cleaning the coolant tank, the coolant tank may be removed while leaving the chip conveyor attached to the machine, making it easier to clean and maintain

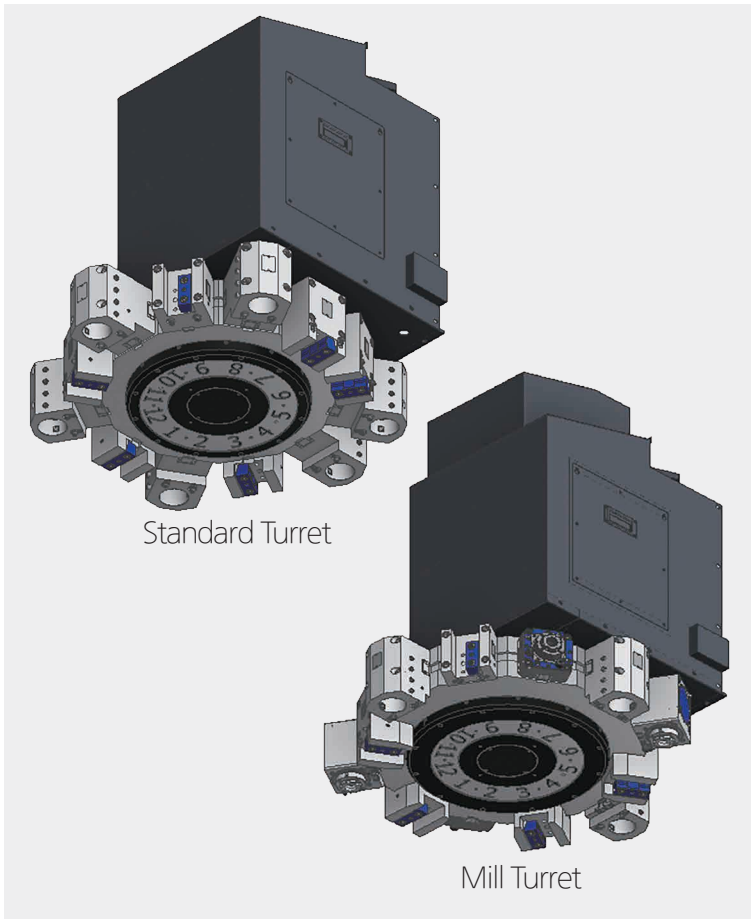
### ③ Highly reliable lubrication distribution system

The highly reliable lubrication pump supplies the correct amount of oil to every guideway via metering valves.

# SLV Series

## VERTICAL TURNING CENTER

### Turret



### Servo Turret

Turret indexing times of 0.18 and 0.3 seconds per station are achieved with Non-stop Random Indexing using High-power Servo Index Motors. While the large diameter curvic couplings significantly increases clamping power and indexing precision.

The SLV 500M (BMT65) / SLV 800M (BMT75) / SLV 1000M (BMT 85) comes standard with 12 station turrets that can accept a rotary tool in every tool position.

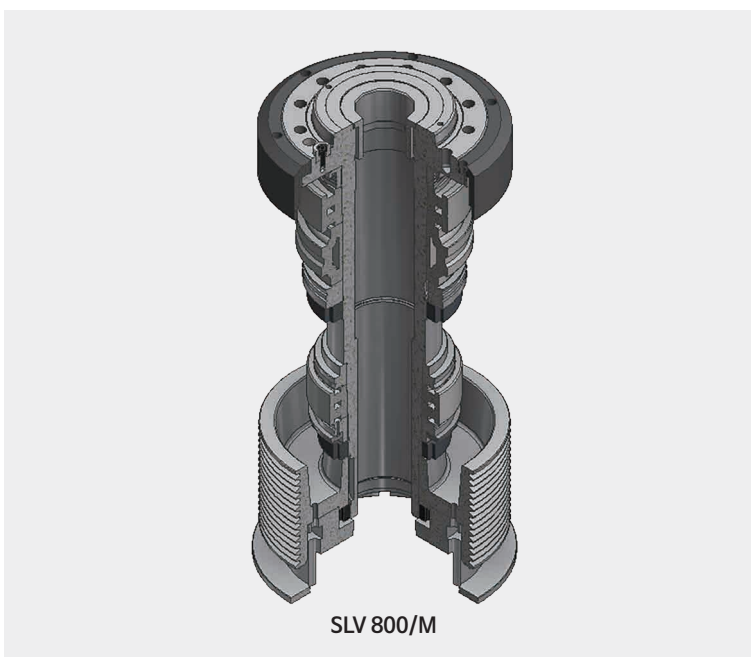
Turret index time :

**0.18**sec(SLV 500/M)

**0.3**sec(SLV 800/M, 1000/M)

No. of tool positions : **12**EA

### Spindle



### Main Spindle Structure

The high-torque spindle is supported by strong Double Cylinder Roller bearings and Angular Thrust bearings enabling heavy-duty turning and minimized spindle acceleration/deceleration times.

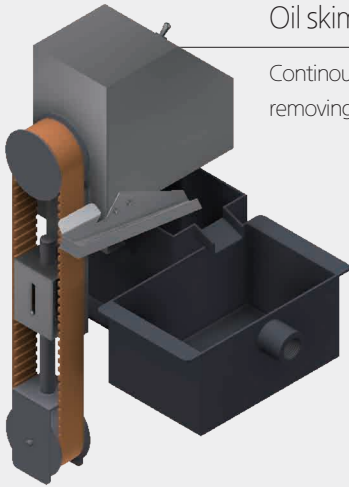
| Category                  | SLV 500/M   | SLV 800/M     | SLV 1000/M      |
|---------------------------|-------------|---------------|-----------------|
| Drive method              | Belt        | Belt/Gear     | Gear            |
| Max speed(RPM)            | 3,000       | 2,000         | 1,800           |
| Max power [kW (Hp)]       | 26(34.87)   | 30(40.24)     | 55(73.76)       |
| Max torque [N.m (lbs.ft)] | 864(637.26) | 1,158(854.10) | 5,026(3,706.99) |
| Spindle nose(ASA)         | A2-8        | A2-11         | A2-15           |
| Bearing I.D. [mm (inch)]  | Ø130(5.12)  | Ø160(6.30)    | Ø200(7.88)      |



## Accessories[Optional]

### Oil skimmer

Continuously cleans the coolant by removing waste oils



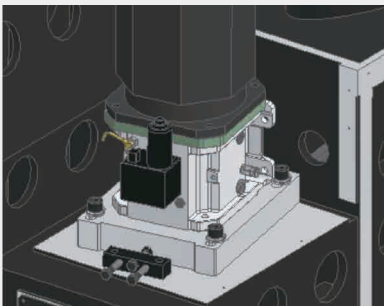
### Autodoor

Used to quickly open/close the operator door via program to increase productivity in an automation line.



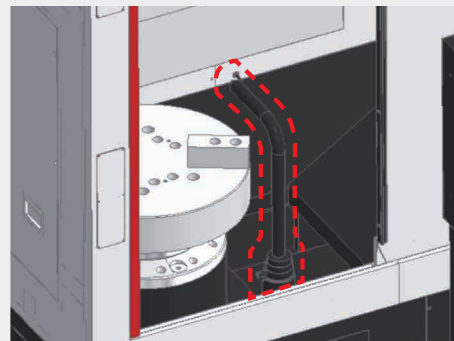
### 2 Step gearbox (SLV 800/M)

The gearbox enables both low-speed high torque turning and high-speed precision turning. And by separating the spindle motor and spindle, the transfer of heat and vibration is prevented, enabling superior precision turning performance.



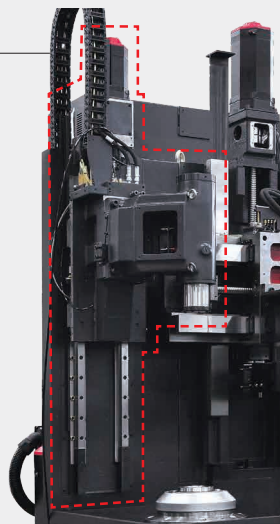
### Removable tool presetter

Provides faster and more precise tool setup, checking for tool wear and compensation



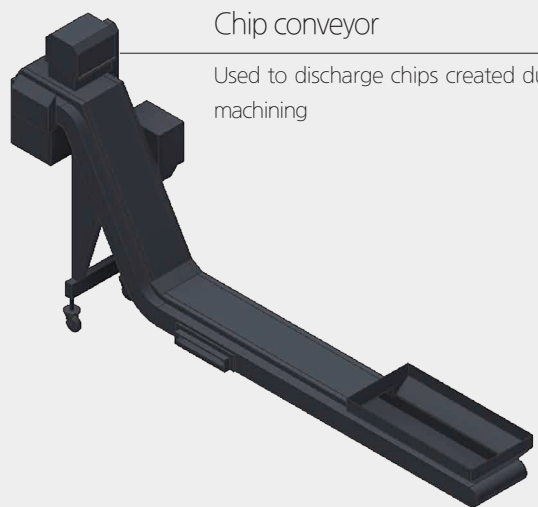
### Servo tailstock (SLV 500/M)

The servo tailstock supports high-speed, high-precision turning, while reducing cycle time and increasing productivity



### Chip conveyor

Used to discharge chips created during machining



# SLV Series

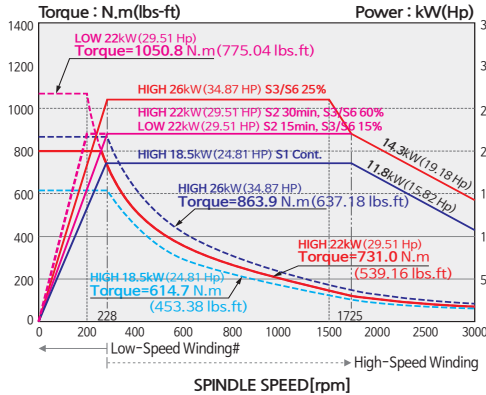
## VERTICAL TURNING CENTER

### Power-Torque Diagram

#### SLV 500/M

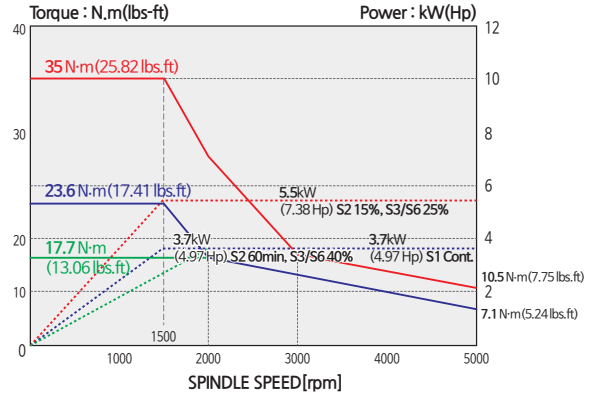
Chuck : 12"

Max speed 3,000rpm  
Power (cont/max) 18.5/26kW  
(24.81/34.87 Hp)  
Torque (cont/max) 614.7/863.9N.m  
(453.38/637.18 lbs.ft)



#### SLV 500M\_MILL Motor

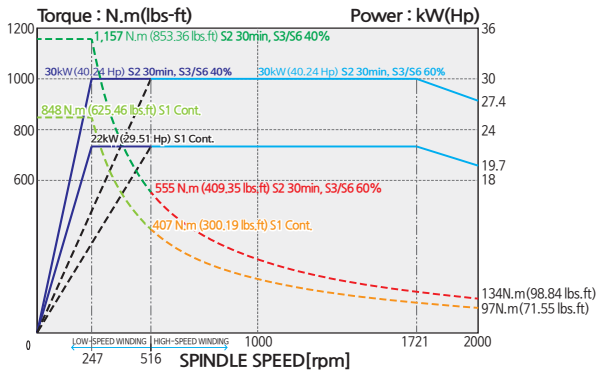
Max speed 5,000rpm  
Power (cont/max) 3.7/5.5kW  
(4.97/7.38 Hp)  
Torque (cont/max) 17.7/35N.m  
(13.06/25.82 lbs.ft)



#### SLV 800/M

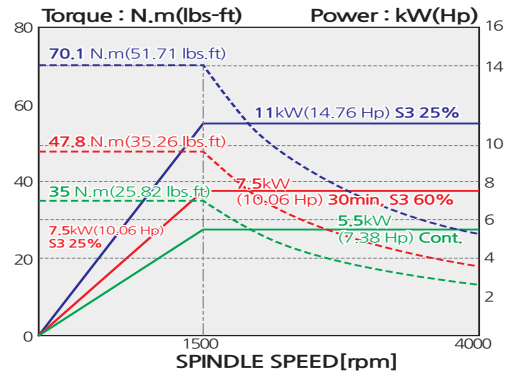
Chuck : 18"

Max speed 2,000rpm  
Power (cont/max) 22/30kW  
(29.51/40.24 Hp)  
Torque (cont/max) 850/1,158N.m  
(626.93/854.10 lbs.ft)



#### SLV 800M\_MILL Motor

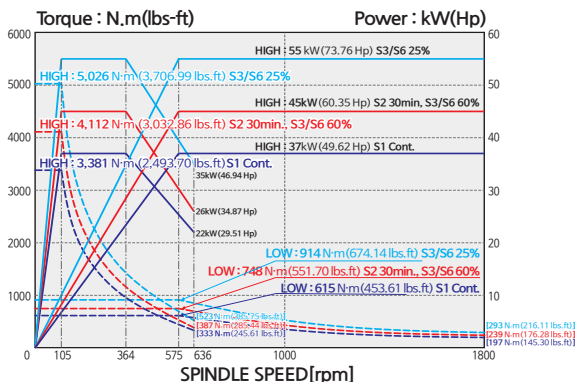
Max speed 4,000rpm  
Power (cont/max) 5.5/11kW  
(7.38/14.76 Hp)  
Torque (cont/max) 35/70.1N.m  
(25.82/51.63 lbs.ft)



#### SLV 1000/M

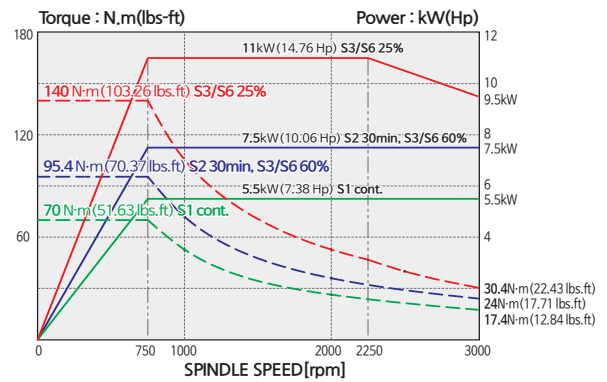
Chuck : 24"

Max speed 1,800rpm  
Power (cont/max) 37/55kW  
(49.62/73.76 Hp)  
Torque (cont/max) 614.7/5,026N.m  
(453.38/3,706.99 lbs.ft)



#### SLV 1000M\_MILL Motor

Max speed 3,000rpm  
Power (cont/max) 5.5/11kW  
(7.38/14.76 Hp)  
Torque (cont/max) 70/140N.m  
(51.63/103.26 lbs.ft)



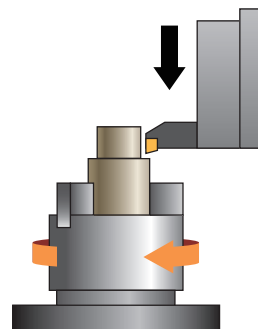


## Cutting Performance

Test conditions : SLV 500(12")

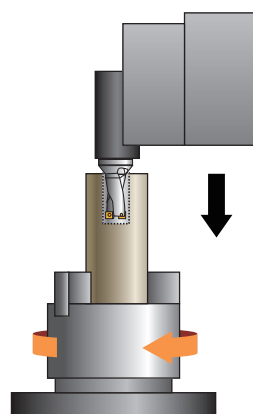
### ◆ O.D Cutting

|                   |                           |                        |
|-------------------|---------------------------|------------------------|
| Cutting dia.      | mm( <i>inch</i> )         | Ø162( <i>6.38</i> )    |
| Cutting depth     | mm( <i>inch</i> )         | 6.0( <i>0.24</i> )     |
| Cutting speed     | m/min( <i>ipm</i> )       | 172( <i>6,771.66</i> ) |
| Spindle speed     | rpm                       | 491                    |
| Feedrate          | mm/rev( <i>inch/rev</i> ) | 0.35( <i>0.014</i> )   |
| Chip removal rate | cc/min( <i>oz/min</i> )   | 525( <i>17.76</i> )    |



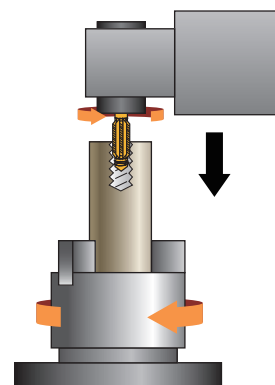
### ◆ U-Drill Cutting

|                   |                           |                        |
|-------------------|---------------------------|------------------------|
| U-drill dia.      | mm( <i>inch</i> )         | Ø60( <i>2.37</i> )     |
| Cutting speed     | m/min( <i>ipm</i> )       | 113( <i>4,448.82</i> ) |
| Spindle speed     | rpm                       | 599                    |
| Feedrate          | mm/rev( <i>inch/rev</i> ) | 0.13( <i>0.006</i> )   |
| Chip removal rate | cc/min( <i>oz/min</i> )   | 588( <i>19.89</i> )    |



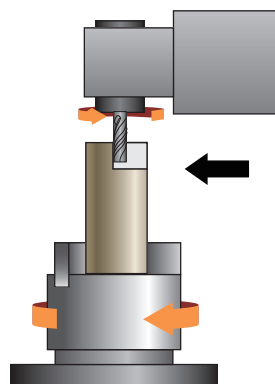
### ◆ Tap

|               |                           |                     |
|---------------|---------------------------|---------------------|
| Tap size      | mm                        | M20×2.5             |
| Cutting depth | mm( <i>inch</i> )         | 30( <i>1.19</i> )   |
| Cutting speed | m/min( <i>ipm</i> )       | 10( <i>393.71</i> ) |
| Spindle speed | rpm                       | 159                 |
| Feedrate      | mm/rev( <i>inch/rev</i> ) | 2.5( <i>0.099</i> ) |



### ◆ Endmill

|                   |                         |                       |
|-------------------|-------------------------|-----------------------|
| Endmill dia.      | mm( <i>inch</i> )       | Ø20( <i>0.79</i> )    |
| Cutting depth     | mm( <i>inch</i> )       | 7( <i>0.28</i> )      |
| Cutting speed     | m/min( <i>ipm</i> )     | 95( <i>3,740.16</i> ) |
| Spindle speed     | rpm                     | 1,512                 |
| Feedrate          | mm/min( <i>ipm</i> )    | 726( <i>28.59</i> )   |
| Chip removal rate | cc/min( <i>oz/min</i> ) | 102( <i>3.45</i> )    |



※ The above data is based on internal testing. Values may change depending on cutting conditions.

# SLV Series

## VERTICAL TURNING CENTER

### SMEC FANUC i series

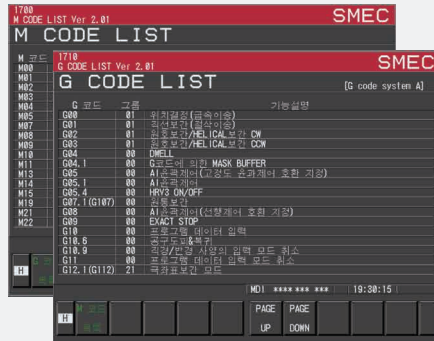


- 15" LCD color display
- High quality designed OP Panel
- Conversational programming, Manual Guide i
- Part program size 2MB
- SMEC Custom S/W

SMEC Custom S/W displayed using MDI's **S1** button or OP Panel's **CUSTOM** button

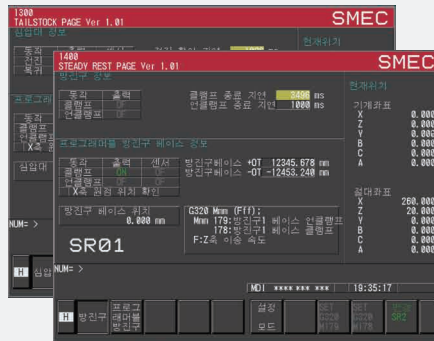


◀ **CUSTOM** : Provide operator convenience and improve productivity using the support function for tool management and additional device setting.



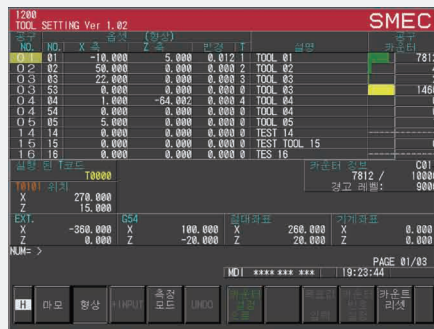
### M/G-Code check function

Allows the operator to directly read the M/G-Code on the machine for easy application programming



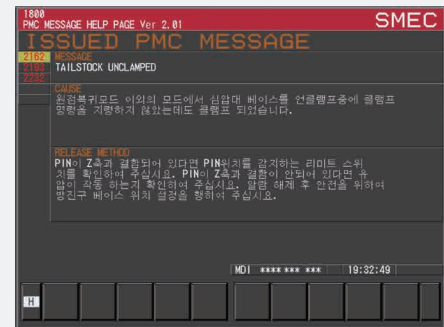
### Easy tailstock setting

Easily configure a variety of functions such as travel limiting, origin setting and signal check



Display only the necessary tools and offsets and check the configured counter at the same time

Tool information and setting management mode



### PMC alarm check function

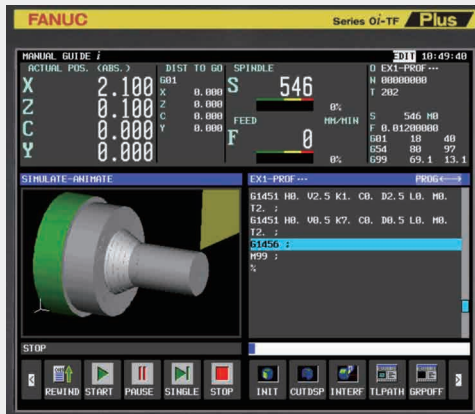
When a PMC alarm occurs, the cause and countermeasures are described in detail, making operation and maintenance more convenient



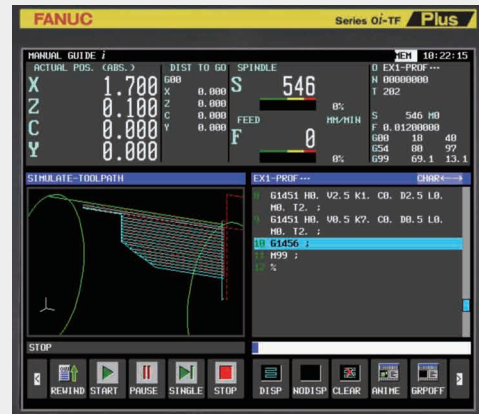
### Counter for each T-Code

## Manual Guide i (STD)

SMEC's Manual Guide i system enables advanced part program creation and more efficient and faster machining with conversational programming



Check cutting result using cutting simulation



Check cutting path using cutting simulation

### Easy program creation and editing

Program creation using advanced part program editing and extensive cutting cycles

### Check program using cutting simulations

Program pre-check using realistic cutting simulation

### Effective cutting setup

Tool and cutting condition offset data setup based on measurement cycle

### Advanced cutting capabilities

Check cutting status such as cutting cycle name and tool icon during the cutting process

### Measurement

Feedback of cutting results and tool offset values after cutting

## IoT Solution (OPT)



NC-Gate  
Basic Platform



IoT-Gate  
Expansion Platform

### NC-Gate / IoT-Gate

The NC-Gate / IoT-Gate that was developed in-house with our ICT technology is a universal gateway that not only interworks with our machine tools, but machine tools from other manufacturers, robots, automation equipment, and analog / digital sensors as a network device capable of bi-directional communication.

Supported drivers : Fanuc / Mitsubishi / Siemens NC, Modbus TCP, DeviceNet, Profibus, Ethernet, AI/DI/DO



#### KPI (Key Performance Indexes)



Provides key performance indicators and displays target achievement

- Indicators : achievement rate, productivity, process defect rate, equipment and factory usage, quality defect rate, lead time, and average cycle time



#### OEE (Overall Equipment Effectiveness)



Provides figures and graphs of overall equipment effectiveness

- Availability, performance, quality, etc.



#### Realtime Monitoring



Provides operation status and alarm information in case of problems in the production line

- Provides information about the operation status, speed, production alarms, etc. of each machine



#### Remote Control/ Management

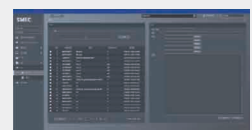


Remote control and operation

- Emergency stop switch, program editing, etc.



#### Remote A/S



Problem diagnosis via remote control

- Provide remote diagnosis services to users via the IoT solution

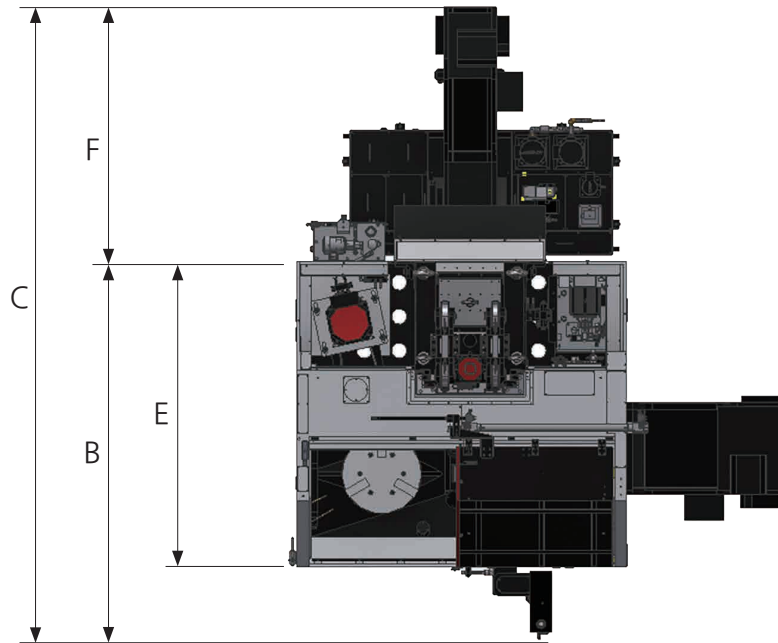
# SLV Series

VERTICAL TURNING CENTER

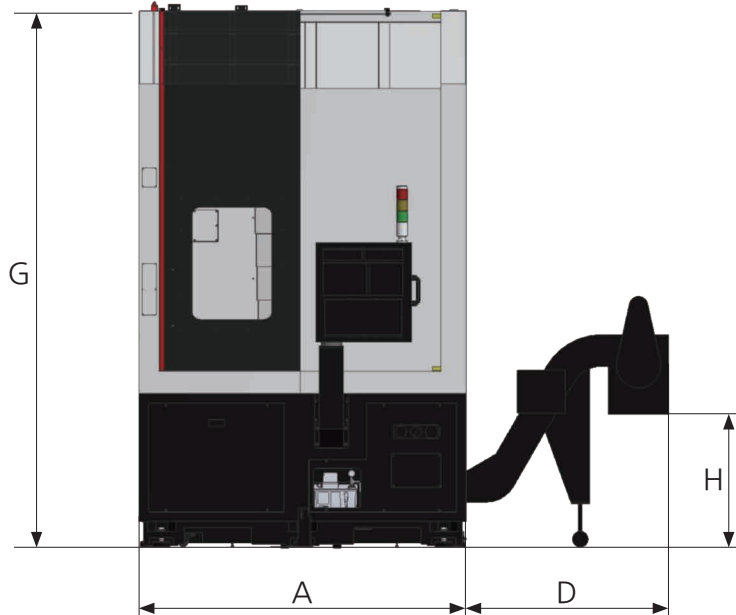
## Machine Dimensions

Unit : mm(inch)

### Top view



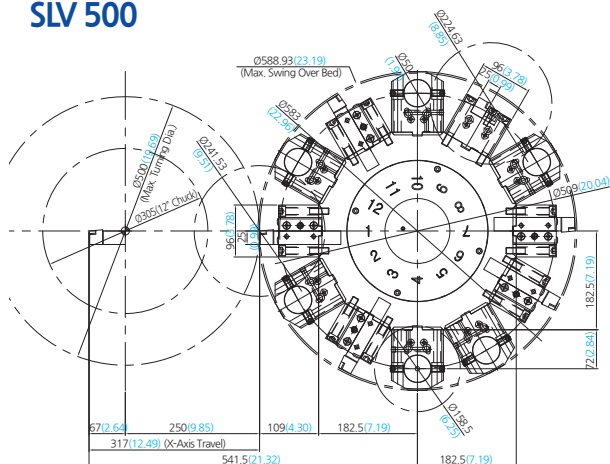
### Front view



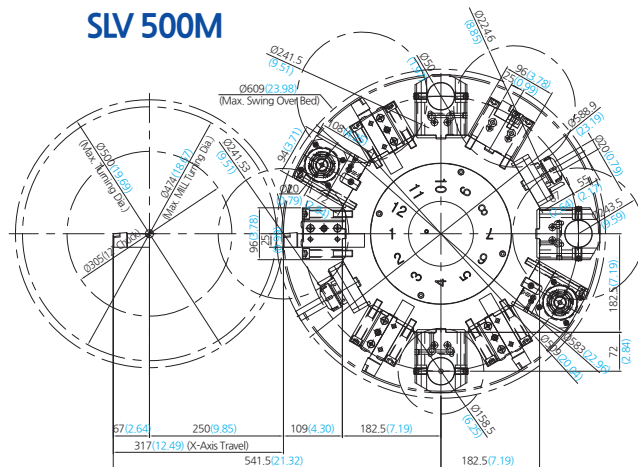
| Model      | A<br>(Machine front) | B             | C             | D            | E<br>(Machine side) | F            | G<br>(Machine side) | H            |
|------------|----------------------|---------------|---------------|--------------|---------------------|--------------|---------------------|--------------|
| SLV 500/M  | 1,670(65.75)         | 2,527(99.49)  | 4,331(170.52) | 1,111(43.75) | 1,798(70.79)        | 1,803(70.99) | 2,774(109.22)       | 1,068(42.05) |
| SLV 800/M  | 2,052(80.79)         | 2,697(106.19) | 4,632(182.37) | 1,287(50.67) | 2,115(83.27)        | 1,935(76.19) | 3,352(131.97)       | 994(39.14)   |
| SLV 1000/M | 2,510(98.82)         | 3,155(124.22) | 5,089(200.36) | 1,234(48.59) | 2,328(91.66)        | 1,933(76.11) | 3,619(142.49)       | 1,076(42.37) |

Unit : mm(inch)

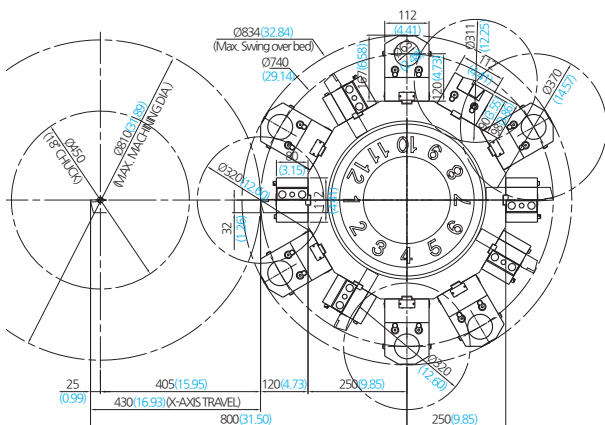
## SLV 500



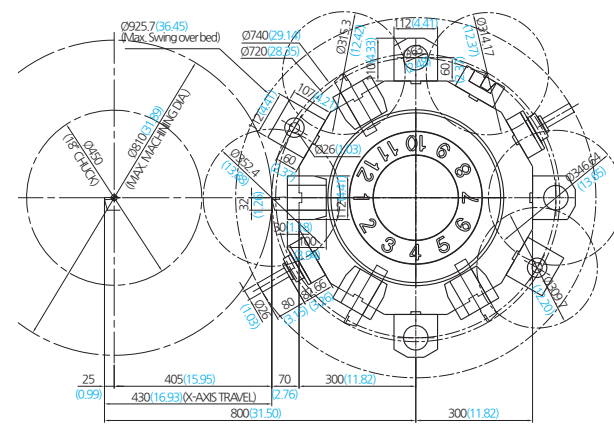
## SLV 500M



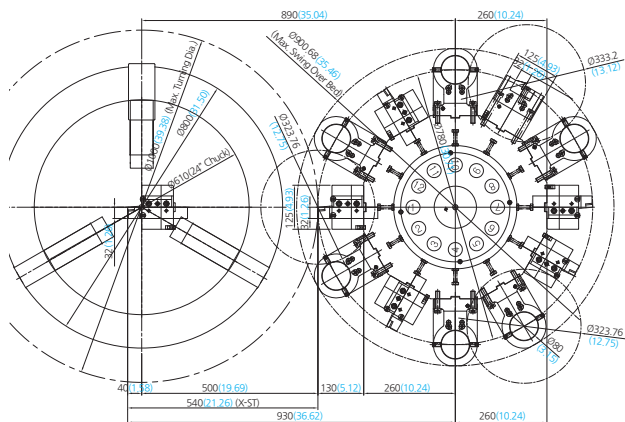
## SLV 800



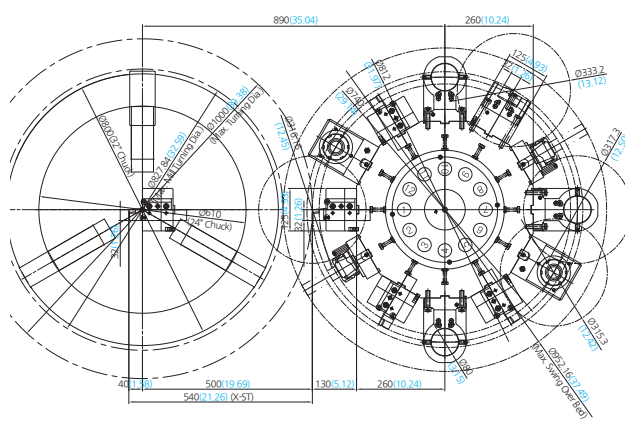
SLV 800M



## SLV 1000



SLV 1000M



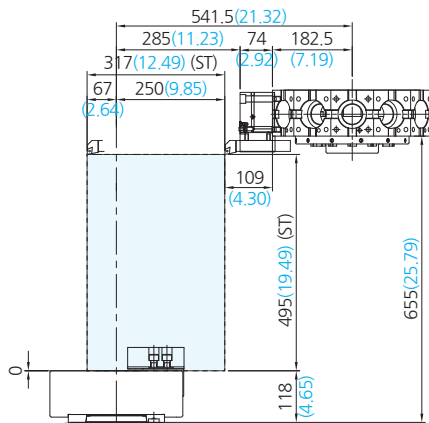
# SLV Series

## VERTICAL TURNING CENTER

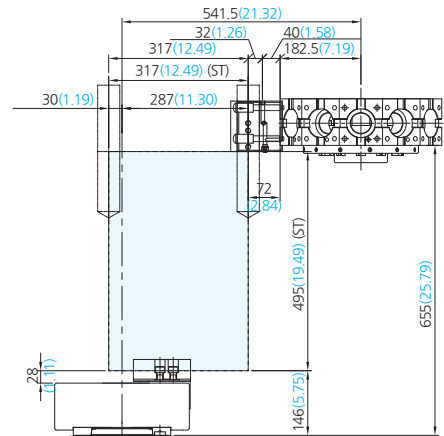
### Work Range

#### SLV 500/M

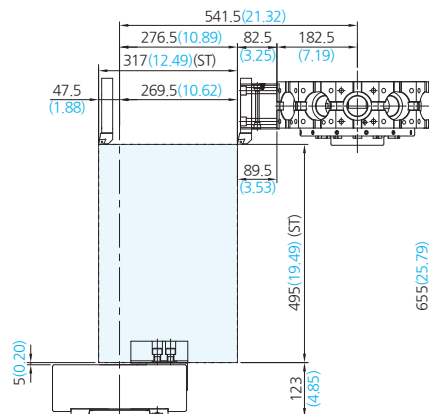
Unit : mm(inch)



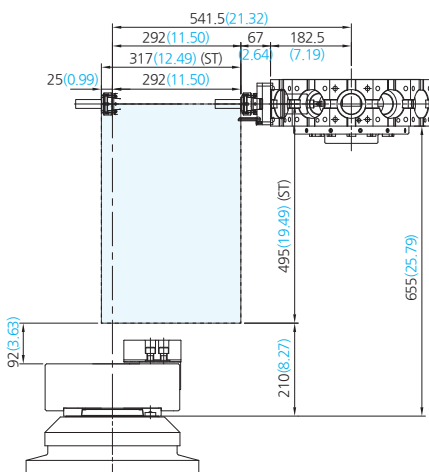
O.D Holder



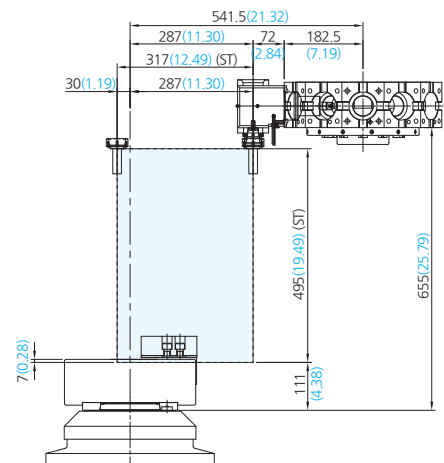
I.D Holder



Face Holder



Straight Milling Holder



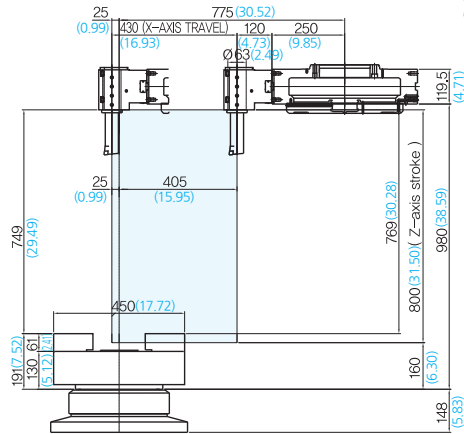
Angular Milling Holder



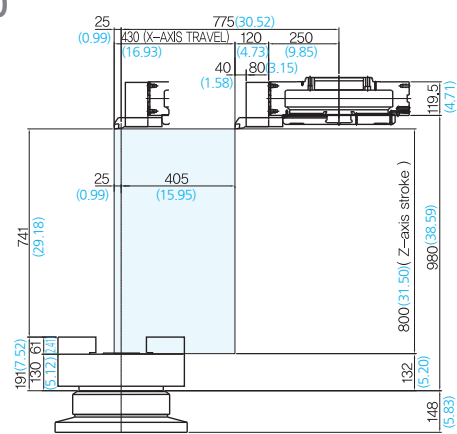
# SLV 800/M

Unit : mm(inch)

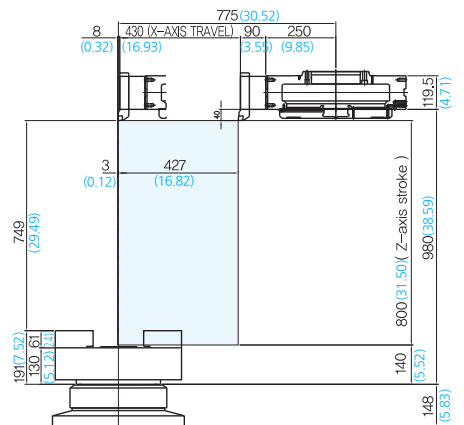
## SLV 800



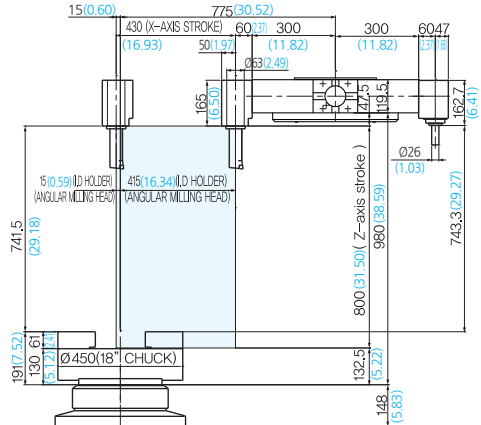
Boring Holder



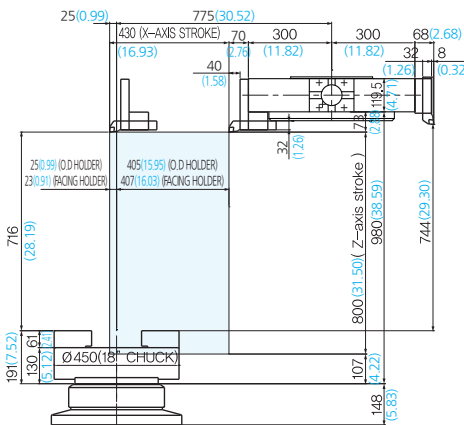
O.D Holder



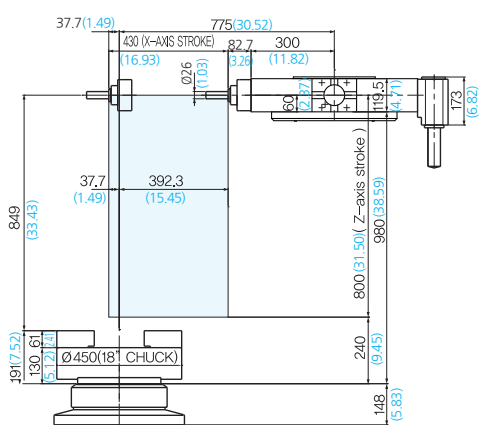
Face Holder



I.D Tool Holder & Angular Milling Head



O.D Tool Holder & Face Tool Holder



Straight Milling Holder

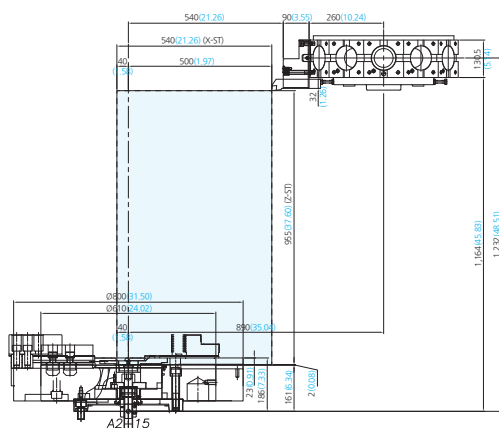
## SLV 800M

## VERTICAL TURNING CENTER

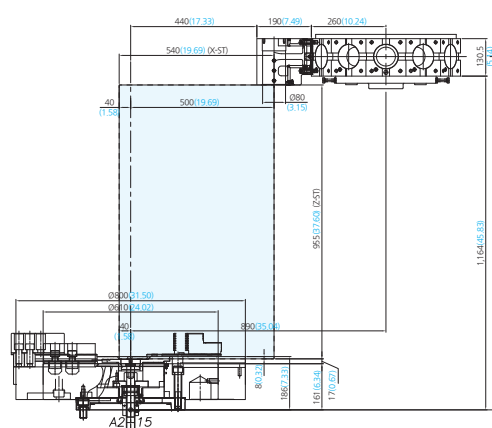
 Work Range

SLV 1000/M

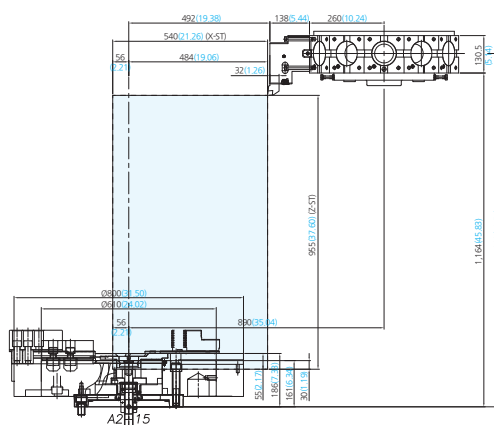
Unit : mm(inch)



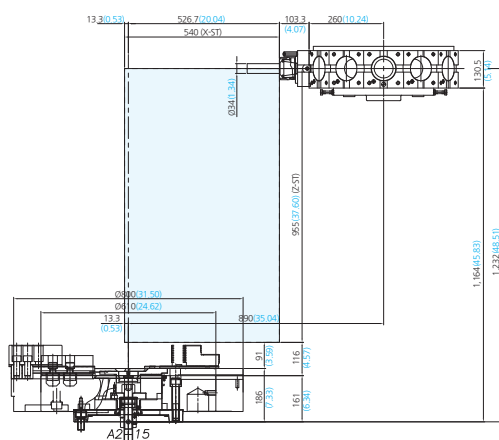
O.D Holder



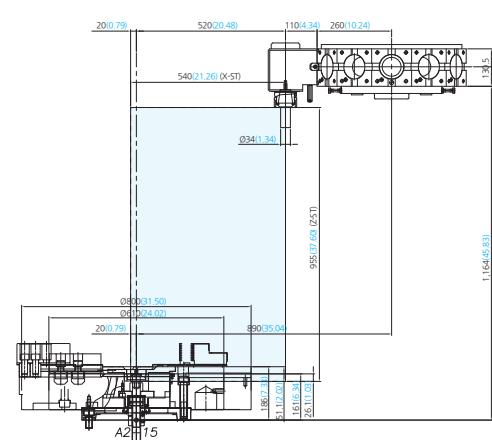
I.D Holder



### Face Holder

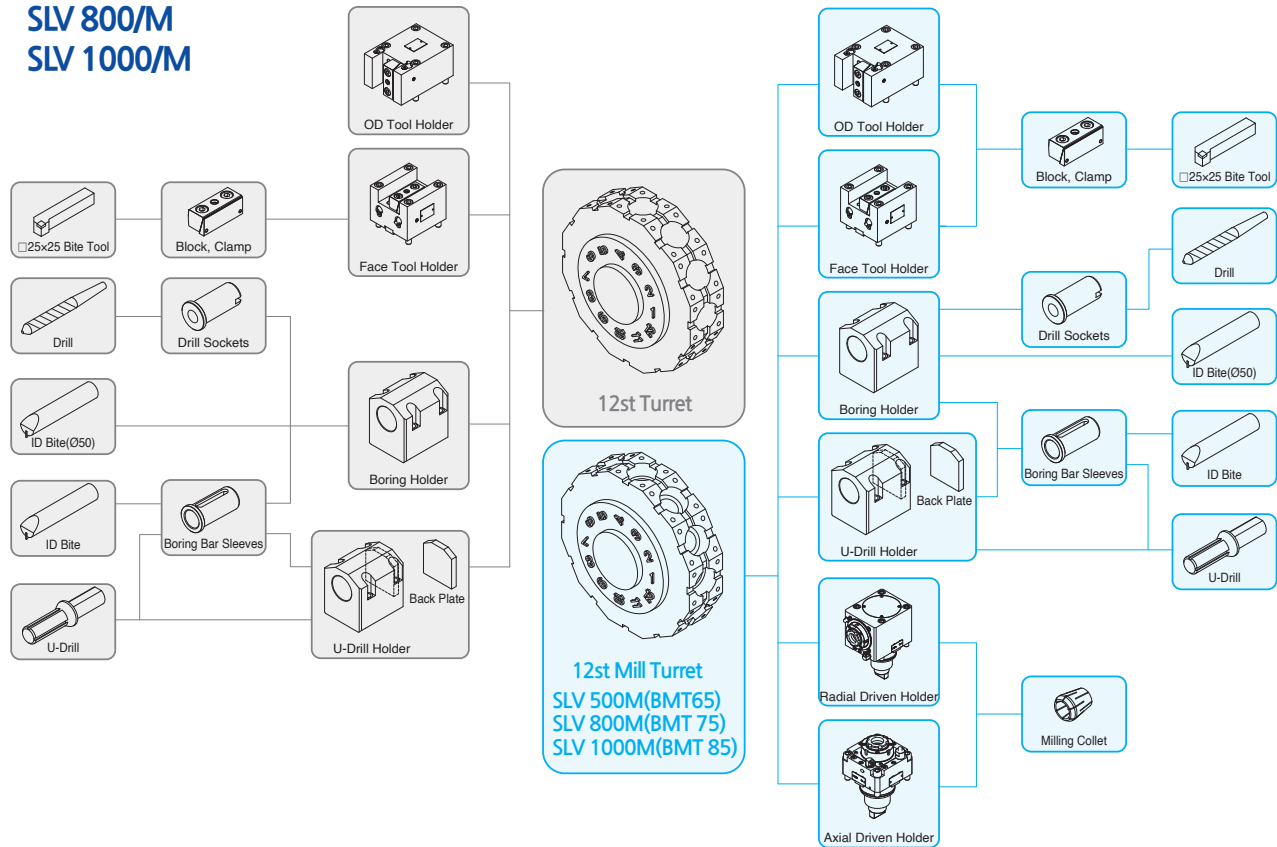


### Straight Milling Holder



## Angular Milling Holder

SLV 500/M  
SLV 800/M  
SLV 1000/M



Standard Tooling

| Item / Description |                       |                       | SLV 500 | SLV 800 | SLV 1000 | SLV 500M | SLV 800M | SLV 1000M |
|--------------------|-----------------------|-----------------------|---------|---------|----------|----------|----------|-----------|
| Static Holder      | OD Holder             |                       | 5       | 5       | 5        | 4        | 4        | 4         |
|                    | Face Holder           |                       | 1       | 1       | 1        | 1        | 1        | 1         |
| Boring Holder      | ID Holder             |                       | 5       | 5       | 5        | 2        | 2        | 2         |
|                    | U-Drill Holder        |                       | 1       | 1       | 1        | 1        | 1        | 1         |
| Milling Holder     | Axial Milling Holder  |                       | -       | -       | -        | 2        | 2        | 2         |
|                    | Radial Milling Holder |                       | -       | -       | -        | 2        | 2        | 2         |
| Socket             | Boring                | Ø10( $\frac{3}{8}$ )  | 1       | 1       | 1        | 1        | 1        | 1         |
|                    |                       | Ø12( $\frac{1}{2}$ )  | 1       | 1       | 1        | 1        | 1        | 1         |
|                    |                       | Ø16( $\frac{5}{8}$ )  | 1       | 1       | 1        | 1        | 1        | 1         |
|                    |                       | Ø20( $\frac{3}{4}$ )  | 1       | 1       | 1        | 1        | 1        | 1         |
|                    |                       | Ø25(1)                | 1       | 1       | 1        | 1        | 1        | 1         |
|                    |                       | Ø32(1 $\frac{1}{4}$ ) | 1       | 1       | 1        | 1        | 1        | 1         |
|                    |                       | Ø40(1 $\frac{1}{2}$ ) | 1       | 1       | 1        | 1        | 1        | 1         |
|                    |                       | Ø50(2)                | -       | 1       | 1        | -        | 1        | 1         |
|                    |                       | Ø60(2 $\frac{1}{2}$ ) | -       | -       | 1        | -        | -        | 1         |
|                    | Drilling              | MT3                   | 1       | 1       | 1        | 1        | 1        | 1         |
|                    |                       | MT4                   | 1       | 1       | 1        | 1        | 1        | 1         |
|                    |                       | MT5                   | -       | 1       | 1        | -        | 1        | 1         |
|                    | ER Collet             |                       |         |         |          | 1        | 1        | 1         |

# SLV Series

## VERTICAL TURNING CENTER

### Standard / Optional

● : Standard    ○ : Optional    △ : Discuss    X : N/A

| Category           |                                                   |                  | SLV 500 | SLV 500M | SLV 800 | SLV 800M | SLV 1000 | SLV 1000M |
|--------------------|---------------------------------------------------|------------------|---------|----------|---------|----------|----------|-----------|
| Spindle            | 3 jaw open-center chuck                           |                  | X       | X        | X       | X        | X        | X         |
|                    | 3 jaw closed-center chuck                         |                  | ●       | ●        | ●       | ●        | ●        | ●         |
|                    | Soft jaw (3set)                                   |                  | ●       | ●        | ●       | ●        | ●        | ●         |
|                    | Hard jaw (1set)                                   |                  | ○       | ○        | ○       | ○        | ○        | ○         |
|                    | Chuck clamp footswitch                            |                  | ●       | ●        | ●       | ●        | ●        | ●         |
|                    | Dual pressure chucking                            |                  | ○       | ○        | ○       | ○        | ○        | ○         |
|                    | C-axis control (0.001°)                           |                  | ○       | ●        | ○       | ●        | ○        | ●         |
|                    | Chuck clamp confirmation                          |                  | ●       | ●        | ●       | ●        | ●        | ●         |
|                    | Chuck dual footswitch                             |                  | ○       | ○        | ○       | ○        | ○        | ○         |
|                    | 2 step gearbox                                    |                  | X       | X        | ○       | ○        | ●        | ●         |
| Turret             | Tool holder                                       |                  | ●       | ●        | ●       | ●        | ●        | ●         |
|                    | Rotary holder type                                | BMT              | ●       | ●        | ●       | ●        | ●        | ●         |
|                    | Rotary holder (axial)                             | Collet-type, 2EA | X       | ●        | X       | ●        | X        | ●         |
|                    | Rotary holder (radial)                            | Collet-type, 2EA | X       | ●        | X       | ●        | X        | ●         |
|                    | Boring bar sleeve (same as U-drill holder sleeve) |                  | ●       | ●        | ●       | ●        | ●        | ●         |
|                    | Drill socket                                      |                  | ●       | ●        | ●       | ●        | ●        | ●         |
|                    | U-drill holder                                    |                  | ●       | ●        | ●       | ●        | ●        | ●         |
|                    | Swivel head holder                                |                  | X       | X        | X       | X        | X        | X         |
| Tailstock          | NC(Servo Motor) tailstock                         |                  | ○       | ○        | X       | X        | X        | X         |
|                    | Live center (standard with tailstock)             |                  | ○       | ○        | X       | X        | X        | X         |
|                    | High precision live center                        |                  | △       | △        | X       | X        | X        | X         |
|                    | Tailstock 2 step pressure system                  |                  | ○       | ○        | X       | X        | X        | X         |
|                    | Quill forward/reverse confirmation                |                  | ○       | ○        | X       | X        | X        | X         |
|                    | Tailstock footswitch                              |                  | ○       | ○        | X       | X        | X        | X         |
| Coolant & Air Blow | Standard coolant (nozzle)                         |                  | ●       | ●        | ●       | ●        | ●        | ●         |
|                    | Coolant above chuck                               |                  | ○       | ○        | ○       | ○        | ○        | ○         |
|                    | Coolant gun                                       |                  | ○       | ○        | ○       | ○        | ○        | ○         |
|                    | TSC for chuck (for special chuck)                 |                  | X       | X        | X       | X        | X        | X         |
|                    | Bed flushing                                      |                  | ●       | ●        | ●       | ●        | ●        | ●         |
|                    | Air blower                                        |                  | ○       | ○        | ○       | ○        | ○        | ○         |
|                    | Rotary tool holder TSC                            |                  | X       | X        | X       | X        | X        | X         |
|                    | Tailstock air blower                              |                  | △       | △        | X       | X        | X        | X         |
|                    | Turret tool air blower                            |                  | X       | X        | X       | X        | X        | X         |
|                    | Air gun                                           |                  | ○       | ○        | ○       | ○        | ○        | ○         |
|                    | Through spindle air blower (for special chuck)    |                  | △       | △        | △       | △        | △        | △         |
|                    | Coolant pump                                      | 4.5Bar           | ●       | ●        | ●       | ●        | ●        | ●         |
|                    |                                                   | 7Bar             | ○       | ○        | ○       | ○        | ○        | ○         |
|                    |                                                   | 10Bar            | ○       | ○        | ○       | ○        | ○        | ○         |
|                    |                                                   | 14.5Bar          | ○       | ○        | ○       | ○        | ○        | ○         |
|                    |                                                   | 20Bar            | ○       | ○        | ○       | ○        | ○        | ○         |
|                    | Power coolant system (for automation solutions)   |                  | △       | △        | △       | △        | △        | △         |
|                    | Coolant chiller                                   |                  | △       | △        | △       | △        | △        | △         |
| Chip Disposal      | Coolant tank                                      |                  | ●       | ●        | ●       | ●        | ●        | ●         |
|                    | Chip conveyor (Hinge / Scraper)                   | Side             | ○       | ○        | ○       | ○        | ○        | ○         |
|                    |                                                   | Rear             | ●       | ●        | ●       | ●        | ●        | ●         |
|                    | Special chip conveyor (drum filter)               |                  | △       | △        | △       | △        | △        | △         |
|                    | Chip bucket                                       | Fixed 380L       | ○       | ○        | ○       | ○        | ○        | ○         |

※ For detailed information, please contact your local SMEC dealer.

# Standard / Optional

● : Standard    ○ : Optional    △ : Discuss    X : N/A

| Category         |                                               |               | SLV 500 | SLV 500M | SLV 800 | SLV 800M | SLV 1000 | SLV 1000M |
|------------------|-----------------------------------------------|---------------|---------|----------|---------|----------|----------|-----------|
| Safety Features  | Door interlock                                |               | ●       | ●        | ●       | ●        | ●        | ●         |
|                  | Backspin torque limiter(BST)                  |               | △       | △        | △       | △        | △        | △         |
|                  | Torque limiter                                |               | △       | △        | △       | △        | △        | △         |
|                  | Full splash guard                             |               | ●       | ●        | ●       | ●        | ●        | ●         |
|                  | Chuck hyd pressure interlock                  |               | △       | △        | △       | △        | △        | △         |
| Electrical       | 3 step patrol lamp and buzzer                 |               | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Lamp for electrical cabinet                   |               | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Remote MPG                                    |               | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Work counter                                  | Digital       | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Total counter                                 | Digital       | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Tool counter                                  | Digital       | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Multi counter                                 | 6ea           | ○       | ○        | ○       | ○        | ○        | ○         |
|                  |                                               | 9ea           | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Grounded circuit breaker                      |               | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | AVR(Auto Voltage Regulator)                   |               | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Transformer                                   | 25kVA         | ○       | ○        | ○       | ○        | ○        | ○         |
|                  |                                               | 30kVA         | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Auto Power Off                                |               | ○       | ○        | ○       | ○        | ○        | ○         |
| Measurement      | Tool Presetter                                | Manual        | X       | X        | X       | X        | X        | X         |
|                  |                                               | Auto          | X       | X        | X       | X        | X        | X         |
|                  |                                               | Removable     | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Air zero measuring device (for special chuck) | TACO          | △       | △        | △       | △        | △        | △         |
|                  |                                               | SMC           | △       | △        | △       | △        | △        | △         |
|                  | Linear scale                                  | X-axis        | ○       | ○        | ○       | ○        | ○        | ○         |
|                  |                                               | Z-axis        | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Coolant level gauge (requires chip conveyor)  |               | ○       | ○        | ○       | ○        | ○        | ○         |
| Environmental    | Air conditioner for electrical cabinet        |               | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Dehumidifier                                  |               | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Oil mist collector                            |               | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Oil skimmer                                   |               | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | MQL(Minimal Quantity Lubrication)             |               | X       | X        | X       | X        | X        | X         |
| Automation       | Auto door                                     |               | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Auto shutter (for automation solutions)       |               | X       | X        | X       | X        | X        | X         |
|                  | Sub controller                                |               | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Barfeeder interface                           |               | X       | X        | X       | X        | X        | X         |
|                  | Additional M-codes (4 pairs)                  |               | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | Automation interface                          |               | ○       | ○        | ○       | ○        | ○        | ○         |
|                  | I/O expansion (including both IN and OUT)     | 16 contacts   | ○       | ○        | ○       | ○        | ○        | ○         |
|                  |                                               | 32 contacts   | ○       | ○        | ○       | ○        | ○        | ○         |
| Hydraulic Supply | Standard hydraulic cylinder                   | Closed-center | ●       | ●        | ●       | ●        | ●        | ●         |
|                  |                                               | 35Bar         | ●       | ●        | X       | X        | X        | X         |
|                  | Standard hydraulic unit                       | 50Bar         | X       | X        | ●       | ●        | ●        | ●         |

※ For detailed information, please contact your local SMEC dealer.

# SLV Series

## VERTICAL TURNING CENTER

### Machine Specifications

[ ] : Option

| Category                    |                                                  | SLV 500                                                          |                        | SLV 500M                                                         |                        |
|-----------------------------|--------------------------------------------------|------------------------------------------------------------------|------------------------|------------------------------------------------------------------|------------------------|
|                             |                                                  | A type                                                           | B type                 | A type                                                           | B type                 |
| Chuck                       | Chuck size inch                                  | 12"                                                              | 15"                    | 12"                                                              | 15"                    |
| Capacity                    | Swing over bed mm(inch)                          | 700(27.56)                                                       | 700(27.56)             | 700(27.56)                                                       | 700(27.56)             |
|                             | Swing over cross-slide <with tailstock> mm(inch) | 400<360>(15.75<14.18>)                                           | 400<360>(15.75<14.18>) | 400<360>(15.75<14.18>)                                           | 400<360>(15.75<14.18>) |
|                             | Max turning diameter mm(inch)                    | 500(19.69)                                                       | 500(19.69)             | 500(19.69)                                                       | 500(19.69)             |
|                             | Max turning length mm(inch)                      | 495(19.49)                                                       | 495(19.49)             | 495(19.49)                                                       | 495(19.49)             |
| Spindle                     | Spindle speed rpm                                | 3,000                                                            | 2,000                  | 3,000                                                            | 2,000                  |
|                             | Spindle nose ASA                                 | A2-8                                                             | A2-8                   | A2-8                                                             | A2-8                   |
|                             | Draw tube ID mm(inch)                            | -                                                                | -                      | -                                                                | -                      |
|                             | Spindle bore mm(inch)                            | 60(2.37)                                                         | 60(2.37)               | 60(2.37)                                                         | 60(2.37)               |
|                             | Spindle motor (cont/max) kW(Hp)                  | 18.5/26(24.81/34.87)                                             | 18.5/26(24.81/34.87)   | 18.5/26(24.81/34.87)                                             | 18.5/26(24.81/34.87)   |
| Travels                     | X-axis stroke mm(inch)                           | 317(12.49)                                                       | 317(12.49)             | 317(12.49)                                                       | 317(12.49)             |
|                             | Z-axis stroke mm(inch)                           | 495(19.49)                                                       | 495(19.49)             | 495(19.49)                                                       | 495(19.49)             |
|                             | X-axis stroke m/min(ipm)                         | 20(787.41)                                                       | 20(787.41)             | 20(787.41)                                                       | 20(787.41)             |
|                             | Z-axis stroke m/min(ipm)                         | 20(787.41)                                                       | 20(787.41)             | 20(787.41)                                                       | 20(787.41)             |
| Turret                      | No of tool positions ea                          | 12                                                               | 12                     | 12(BMT65)                                                        | 12(BMT65)              |
|                             | OD tool size mm(inch)                            | 25(0.99)                                                         | 25(0.99)               | 25(0.99)                                                         | 25(0.99)               |
|                             | Boring bar diameter mm(inch)                     | 50(1.97)                                                         | 50(1.97)               | 50(1.97)                                                         | 50(1.97)               |
|                             | Indexing time sec                                | 0.18                                                             | 0.18                   | 0.18                                                             | 0.18                   |
|                             | Rotary tool speed rpm                            | -                                                                | -                      | 5,000                                                            | 5,000                  |
|                             | Rotary tool motor (cont/max) kW(Hp)              | -                                                                | -                      | 3.7/5.5(4.97/7.38)                                               | 3.7/5.5(4.97/7.38)     |
| Tailstock                   | Quill diameter mm(inch)                          | [110]([4.34])                                                    | [110]([4.34])          | [110]([4.34])                                                    | [110]([4.34])          |
|                             | Quill stroke mm(inch)                            | [450]([17.72])                                                   | [450]([17.72])         | [450]([17.72])                                                   | [450]([17.72])         |
|                             | Quill taper MT                                   | [MT5]                                                            | [MT5]                  | [MT5]                                                            | [MT5]                  |
| Machine                     | Size(with SIDE chip conveyor) L×W×H mm(inch)     | 1,670(2,782) × 1,798 × 2,774<br>(65.75(109.53) × 70.79 × 109.22) |                        | 1,670(2,782) × 1,798 × 2,774<br>(65.75(109.53) × 70.79 × 109.22) |                        |
|                             | Size(with REAR chip conveyor) L×W×H mm(inch)     | 1,670 × 1,798(3,602) × 2,774<br>(65.75 × 70.79(141.82) × 109.22) |                        | 1,670 × 1,798(3,602) × 2,774<br>(65.75 × 70.79(141.82) × 109.22) |                        |
|                             | Weight kg(lb)                                    | 7,100(15,652.83)                                                 | 7,100(15,652.83)       | 7,200(15,873.29)                                                 | 7,200(15,873.29)       |
|                             | Coolant tank capacity Liter(gal)                 | 250(66.05)                                                       |                        | 250(66.05)                                                       |                        |
| Electric power supply kVA/V |                                                  | 40/220                                                           | 40/220                 | 45/220                                                           | 45/220                 |
| Controller                  |                                                  | FANUC                                                            |                        |                                                                  |                        |

※ Design and specifications are subject to change without notice.

**SMEC**

Machine Tools



## Machine Specifications

| Category              |                                         |            | SLV 800                                                          |                       |                       | SLV 800M                                                         |                        |                        |
|-----------------------|-----------------------------------------|------------|------------------------------------------------------------------|-----------------------|-----------------------|------------------------------------------------------------------|------------------------|------------------------|
|                       |                                         |            | A type                                                           | B type                | C type                | A type                                                           | B type                 | C type                 |
| Chuck                 | Chuck size                              | inch       | 18[15]"                                                          | 21"                   | 24"                   | 18[15]"                                                          | 21"                    | 24"                    |
| Capacity              | Swing over bed                          | mm(inch)   | 890(35.04)                                                       | 890(35.04)            | 890(35.04)            | 890(35.04)                                                       | 890(35.04)             | 890(35.04)             |
|                       | Swing over cross-slide (with tailstock) | mm(inch)   | 740(29.14)                                                       | 740(29.14)            | 740(29.14)            | 740(29.14)                                                       | 740(29.14)             | 740(29.14)             |
|                       | Max turning diameter                    | mm(inch)   | 830(32.68)                                                       | 830(32.68)            | 830(32.68)            | 830(32.68)                                                       | 830(32.68)             | 830(32.68)             |
|                       | Max turning length                      | mm(inch)   | 800(31.50)                                                       | 800(31.50)            | 800(31.50)            | 800(31.50)                                                       | 800(31.50)             | 800(31.50)             |
| Spindle               | Spindle speed                           | rpm        | 2,000                                                            | 1,800                 | 1,500                 | 2,000                                                            | 1,800                  | 1,500                  |
|                       | Spindle nose                            | ASA        | A2-11                                                            | A2-11                 | A2-11                 | A2-11                                                            | A2-11                  | A2-11                  |
|                       | Draw tube ID                            | mm(inch)   | -                                                                | -                     | -                     | -                                                                | -                      | -                      |
|                       | Spindle bore                            | mm(inch)   | 104(4.10)                                                        | 104(4.10)             | 104(4.10)             | 104(4.10)                                                        | 104(4.10)              | 104(4.10)              |
|                       | Spindle motor (cont/max)                | kW(Hp)     | 22/30[30/37]<br>(29.51/40.24[40.24/49.62])                       |                       |                       | 22/30[30/37]<br>(29.51/40.24[40.24/49.62])                       |                        |                        |
| Travels               | X-axis stroke                           | mm(inch)   | 440(17.33)                                                       | 440(17.33)            | 440(17.33)            | 440(17.33)                                                       | 440(17.33)             | 440(17.33)             |
|                       | Z-axis stroke                           | mm(inch)   | 800(31.50)                                                       | 800(31.50)            | 800(31.50)            | 800(31.50)                                                       | 800(31.50)             | 800(31.50)             |
|                       | X-axis stroke                           | m/min(ipm) | 20(787.41)                                                       | 20(787.41)            | 20(787.41)            | 20(787.41)                                                       | 20(787.41)             | 20(787.41)             |
|                       | Z-axis stroke                           | m/min(ipm) | 20(787.41)                                                       | 20(787.41)            | 20(787.41)            | 20(787.41)                                                       | 20(787.41)             | 20(787.41)             |
| Turret                | No of tool positions                    | ea         | 12                                                               | 12                    | 12                    | 12(BMT75)                                                        | 12(BMT75)              | 12(BMT75)              |
|                       | OD tool size                            | mm(inch)   | 32(1.26)                                                         | 32(1.26)              | 32(1.26)              | 32(1.26)                                                         | 32(1.26)               | 32(1.26)               |
|                       | Boring bar diameter                     | mm(inch)   | 63(2.49)                                                         | 63(2.49)              | 63(2.49)              | 63(2.49)                                                         | 63(2.49)               | 63(2.49)               |
|                       | Indexing time                           | sec        | 0.30                                                             | 0.30                  | 0.30                  | 0.30                                                             | 0.30                   | 0.30                   |
|                       | Rotary tool speed                       | rpm        | -                                                                | -                     | -                     | 4,000                                                            | 4,000                  | 4,000                  |
|                       | Rotary tool motor (cont/max)            | kW(Hp)     | -                                                                | -                     | -                     | 5.5/11<br>(7.38/14.76)                                           | 5.5/11<br>(7.38/14.76) | 5.5/11<br>(7.38/14.76) |
| Tailstock             | Quill diameter                          | mm(inch)   | -                                                                | -                     | -                     | -                                                                | -                      | -                      |
|                       | Quill stroke                            | mm(inch)   | -                                                                | -                     | -                     | -                                                                | -                      | -                      |
|                       | Quill taper                             | MT         | -                                                                | -                     | -                     | -                                                                | -                      | -                      |
| Machine               | Size(with SIDE chip conveyor) L×W×H     | mm(inch)   | 2,052(3,340) × 2,115 × 3,352<br>(80.79(131.50) × 83.27 × 131.97) |                       |                       | 2,052(3,340) × 2,115 × 3,352<br>(80.79(131.50) × 83.27 × 131.97) |                        |                        |
|                       | Size(with REAR chip conveyor) L×W×H     | mm(inch)   | 2,052 × 2,115(4,051) × 3,352<br>(80.79 × 83.27(159.49) × 131.97) |                       |                       | 2,052 × 2,115(4,051) × 3,352<br>(80.79 × 83.27(159.49) × 131.97) |                        |                        |
|                       | Weight                                  | kg(lb)     | 11,000<br>(24,250.85)                                            | 11,000<br>(24,250.85) | 11,000<br>(24,250.85) | 11,200<br>(24,691.78)                                            | 11,200<br>(24,691.78)  | 11,200<br>(24,691.78)  |
|                       | Coolant tank capacity                   | Liter(gal) | 300(79.26)                                                       |                       |                       | 300(79.26)                                                       |                        |                        |
| Electric power supply |                                         |            | kVA/V                                                            | 53/220                | 53/220                | 53/220                                                           | 61/220                 | 61/220                 |
| Controller            |                                         |            | FANUC                                                            |                       |                       |                                                                  |                        |                        |

※ Design and specifications are subject to change without notice.

# SLV Series

## VERTICAL TURNING CENTER

### Machine Specifications

| Category              |                                         |            | SLV 1000                                                         |                    | SLV 1000M                                                        |                    |
|-----------------------|-----------------------------------------|------------|------------------------------------------------------------------|--------------------|------------------------------------------------------------------|--------------------|
|                       |                                         |            | A type                                                           | B type             | A type                                                           | B type             |
| Chuck                 | Chuck size                              | inch       | 24"                                                              | 32"                | 24"                                                              | 32"                |
| Capacity              | Swing over bed                          | mm(inch)   | 1,100(43.31)                                                     | 1,100(43.31)       | 1,100(43.31)                                                     | 1,100(43.31)       |
|                       | Swing over cross-slide (with tailstock) | mm(inch)   | 795(31.30)                                                       | 795(31.30)         | 795(31.30)                                                       | 795(31.30)         |
|                       | Max turning diameter                    | mm(inch)   | 1,000(39.38)                                                     | 1,000(39.38)       | 1,000(39.38)                                                     | 1,000(39.38)       |
|                       | Max turning length                      | mm(inch)   | 955(37.60)                                                       | 955(37.60)         | 955(37.60)                                                       | 955(37.60)         |
| Spindle               | Spindle speed                           | rpm        | 1,800                                                            | 800                | 1,800                                                            | 800                |
|                       | Spindle nose                            | ASA        | A2-15                                                            | A2-15              | A2-15                                                            | A2-15              |
|                       | Draw tube ID                            | mm(inch)   | -                                                                | -                  | -                                                                | -                  |
|                       | Spindle bore                            | mm(inch)   | 100(3.94)                                                        | 100(3.94)          | 100(3.94)                                                        | 100(3.94)          |
|                       | Spindle motor (cont/max)                | kW(Hp)     | 37/55(49.62/73.76)                                               | 37/55(49.62/73.76) | 37/55(49.62/73.76)                                               | 37/55(49.62/73.76) |
| Travels               | X-axis stroke                           | mm(inch)   | 540(21.26)                                                       | 540(21.26)         | 540(21.26)                                                       | 540(21.26)         |
|                       | Z-axis stroke                           | mm(inch)   | 955(37.60)                                                       | 955(37.60)         | 955(37.60)                                                       | 955(37.60)         |
|                       | X-axis stroke                           | m/min(ipm) | 20(787.41)                                                       | 20(787.41)         | 20(787.41)                                                       | 20(787.41)         |
|                       | Z-axis stroke                           | m/min(ipm) | 20(787.41)                                                       | 20(787.41)         | 20(787.41)                                                       | 20(787.41)         |
| Turret                | No of tool positions                    | ea         | 12                                                               | 12                 | 12 (BMT85)                                                       | 12 (BMT85)         |
|                       | OD tool size                            | mm(inch)   | 32(1.26)                                                         | 32(1.26)           | 32(1.26)                                                         | 32(1.26)           |
|                       | Boring bar diameter                     | mm(inch)   | 80(3.15)                                                         | 80(3.15)           | 80(3.15)                                                         | 80(3.15)           |
|                       | Indexing time                           | sec        | 0.30                                                             | 0.30               | 0.30                                                             | 0.30               |
|                       | Rotary tool speed                       | rpm        | -                                                                | -                  | 3,000                                                            | 3,000              |
|                       | Rotary tool motor (cont/max)            | kW(Hp)     | -                                                                | -                  | 5.5/11(7.38/14.76)                                               | 5.5/11(7.38/14.76) |
| Tailstock             | Quill diameter                          | mm(inch)   | -                                                                | -                  | -                                                                | -                  |
|                       | Quill stroke                            | mm(inch)   | -                                                                | -                  | -                                                                | -                  |
|                       | Quill taper                             | MT         | -                                                                | -                  | -                                                                | -                  |
| Machine               | Size(with SIDE chip conveyor) L×W×H     | mm(inch)   | 2,510(3,744) × 2,329 × 3,619<br>(98.82(147.41) × 91.70 × 142.49) |                    | 2,510(3,744) × 2,329 × 3,619<br>(98.82(147.41) × 91.70 × 142.49) |                    |
|                       | Size(with REAR chip conveyor) L×W×H     | mm(inch)   | 2,510 × 2,329(4,263) × 3,619<br>(98.82 × 91.70(167.84) × 142.49) |                    | 2,510 × 2,329(4,263) × 3,619<br>(98.82 × 91.70(167.84) × 142.49) |                    |
|                       | Weight                                  | kg(lb)     | 17,000(37,478.59)                                                | 17,000(37,478.59)  | 17,200(37,919.51)                                                | 17,200(37,919.51)  |
|                       | Coolant tank capacity                   | Liter(gal) | 350(92.47)                                                       |                    | 350(92.47)                                                       |                    |
| Electric power supply |                                         |            | kVAV                                                             | 75/220             | 75/220                                                           | 80/220             |
| Controller            |                                         |            | FANUC                                                            |                    |                                                                  |                    |

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**SMEC**

Machine Tools

| Functions               |                                        | F0i-TF+                    |
|-------------------------|----------------------------------------|----------------------------|
| Controlled axis         | Controlled axes                        | X, Z, C                    |
|                         | Max simultaneously controlled axes     | 4                          |
|                         | Least input increment                  | 0.001mm / 0.0001"          |
|                         | Built-in stroke limit                  | Soft overtravel 1, 2, 3, 4 |
|                         | Machine lock                           | ●                          |
| Operation functions     | Manual handle feed                     | X1, X10, X100              |
|                         | Dry run                                | ●                          |
|                         | Single block                           | ●                          |
|                         | Feed per minute                        | G94                        |
|                         | Feed per revolution                    | G95                        |
|                         | DNC operation                          | Ethernet, CF card          |
|                         | Thread cutting pause                   | ○                          |
| Interpolation functions | Linear interpolation                   | G01                        |
|                         | Circular interpolation                 | G02, G03                   |
|                         | Dwell                                  | G04                        |
|                         | Cylindrical interpolation              | G70.1                      |
|                         | Skip                                   | G31                        |
|                         | Nano smoothing                         | X                          |
|                         | Polar coordinate interpolation         | ●                          |
|                         | Reference position (zero) return       | G28                        |
|                         | Reference position (zero) return check | G27                        |
|                         | 2nd, 3rd, 4th reference point return   | G30                        |
|                         | Variable lead thread cutting           | ●                          |
|                         | Thread repair                          | ●                          |
| Feed function           | Rapid traverse override                | F0, 25%, 50%, 100%         |
|                         | Feedrate override                      | 0~150%                     |
|                         | Jog override                           | ●                          |
|                         | AI contour control I                   | ○ (40 block)               |
|                         | AI contour control II                  | ○ (200 block)              |
|                         | Look ahead block expansion(F0i)        | X                          |
|                         | High-speed processing                  | X                          |
|                         | Look ahead block expansion             | X                          |
|                         | Smooth tolerance control               | X                          |
| Spindle function        | Spindle orientation                    | ●                          |
|                         | Rigid tapping                          | M29                        |
|                         | Spindle override                       | 50 ~ 150%                  |
|                         | Arbitrary speed threading              | ○                          |
| Tool functions          | Tool number command                    | T4-Digt Tool number        |
|                         | Tool nose radius compensation          | G40 ~ G42                  |
|                         | Tool offset pairs                      | 128-pairs                  |
|                         | Tool geometry / wear offset            | ●                          |
|                         | Tool length compensation               | X                          |
|                         | Tool life management                   | ●                          |
|                         | Tool path graphic display              | ●                          |

| Functions           |                                           | F0i-TF+                                |
|---------------------|-------------------------------------------|----------------------------------------|
| Program input       | Absolute / incremental command            | G90/G91                                |
|                     | Repeating canned cycle                    | ●                                      |
|                     | Repeating canned cycle 2                  | ●                                      |
|                     | Canned cycles                             | ●                                      |
|                     | Drilling canned cycle                     | ●                                      |
|                     | Decimal point input                       | ●                                      |
|                     | Inch / metric conversion                  | G20 / G21                              |
|                     | Program restart                           | ●                                      |
|                     | Sub program call                          | ●                                      |
|                     | Max programmable value                    | ±99999.999mm/±9999.9999"               |
|                     | M function                                | 3 digit                                |
|                     | Custom macro                              | ●                                      |
|                     | Addition of custom macro common variables | #100~#199, #500~#999 (#98000 ~ #98499) |
|                     | Direct drawing dimension programming      | ●                                      |
|                     | Programmable data input                   | G10                                    |
| Interface function  | Tape code                                 | ISO / EIA                              |
|                     | Optional block skip                       | ●                                      |
| Setting and display | Workpiece coordinate system               | G52 ~ G59                              |
|                     | Addition of workpiece coordinate system   | X                                      |
|                     | Embedded ethernet                         | ●                                      |
|                     | Fast ethernet                             | ○                                      |
|                     | Alarm and operator history display        | ●                                      |
|                     | Run hour and parts count display          | ●                                      |
|                     | Loadmeter display                         | ●                                      |
|                     | Self diagnosis function                   | ●                                      |
|                     | Extended part program editing             | ●                                      |
|                     | Machining condition selection function    | ○                                      |
| Data input/output   | Machining quality level adjustment        | X                                      |
|                     | Display screen                            | 15" color LCD                          |
|                     | Multi-language display                    | 25 language                            |
|                     | Fast data server                          | ○                                      |
| Editing operation   | RS232C interface                          | ●                                      |
|                     | Memory card input / output                | ●                                      |
|                     | USB memory input / output                 | ●                                      |
|                     | Part program storage size                 | 2Mbyte                                 |
| Editing operation   | Number of registered programs             | 1,000EA                                |
|                     | Manual guide Oi                           | X                                      |
|                     | Manual guide i                            | ●                                      |



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