<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Controls</strong></td>
<td>49i axes 4 axis 0.001mm(0.0001&quot;)</td>
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<tr>
<td><strong>Spindle functions</strong></td>
<td>80 digits, Binary Output 10% ~ 150% Provided</td>
</tr>
<tr>
<td><strong>Programming functions</strong></td>
<td>+/−9999.9999&quot;/v − 8kgf Fitting/Reference/0.0001/0.001/0.01</td>
</tr>
<tr>
<td><strong>Feed functions</strong></td>
<td>Manual Jog Feed : Rapid, Jog Feed, Handle Manual Handle Feed-rate F Initial value setting Rapid Traverse Override Manual Continuous Feed Jog-Handle (Same Mode) Automatic Corner Override Incremental Feed</td>
</tr>
<tr>
<td><strong>Tool functions</strong></td>
<td>Cutter Compensation C Tool Offset Number Tool Life Management</td>
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<tr>
<td><strong>Tape functions</strong></td>
<td>Tape Code Number of Register-able Program Part Program Storage Length EIA RS-244-A/BO 840(Automatic Recognition) 63 160M(SF24 FT)</td>
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<tr>
<td><strong>Other functions</strong></td>
<td>Custom Macro B Sketch Function CRT/MCI Program Protect Key Back Ground Editing Run Hour Display Program Restart</td>
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<tr>
<td><strong>Options</strong></td>
<td>Advanced Feature Control(64i) Additional Work Coordinate System(48 Pairs) Polar Coordinate Command / Interpolation Helical Interpolation Cylindrical Interpolation(Additional axis needed) Extended Part Program Editing Single Direction Positioning(300) Coordinate System Rotation External Data Input / Output Optional Chambering/Cutter R Optional Block Skip 9 EA Handle Interrupt Part Program Storage 320/640/1280/2560(MB,400FT)</td>
</tr>
</tbody>
</table>

**SAMSUNG Machine Tools**

**PL2000SY**

**CNC TURNING CENTER**
**SAMSUNG'S Advanced Engineering and Machine Design**

- Cast iron structure for superior dampening characteristics and thermal displacement
- Rigid 30 degree slant bed design for heavy-duty machining
- Torque tube design to minimize bending and twisting
- Integrated box ways for long-term rigidity and heavy-duty machining

**PL 2000SY**

PL2000SY is a heavy-duty, ultra precision Turning Center, combined with Samsung's advanced technological features.

- **Spindle Speed**
  - Main 4,000 rpm
  - Sub 6,000 rpm

- **Spindle Motor (30min/cont.)**
  - Main 15/11 kW
  - Sub 7.5/5.5 kW

- **Rapid travel (X/Z/Y/B)**
  - 18/24/12/24 m/min

- **Feed Motor (X/Z/Y/B)**
  - 3/4/3/4 kW

- **Max. Turning Diameter**
  - 360 mm

- **Max. Turning Length**
  - 520 mm

- **Y Axis Travel**
  - ± 50 mm
SAMSUNG'S Advanced Engineering and Machine Design

- Cast iron structure for superior dampening characteristics and thermal displacement
- Rigid 30 degree slant bed design for heavy-duty machining
- Torque tube design to minimize bending and twisting
- Integrated box ways for long-term rigidity and heavy-duty machining

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  - Sub 7.5/5.5 kW

- Rapid travel(X/Z/Y/B)
  - 18/24/12/24 m/min

- Feed Motor(X/Z/Y/B)
  - 3/4/3/4 kW

- Highly Reliable and Rigid Structural Design

- One-piece Meehanite casting with heavily ribbed torque tube design
- Rigid bed supports for powerful cutting
- Excellent vibration damping and thermal displacement design

- Max. Turning Diameter
  - 360 mm

- Max. Turning Length
  - 520 mm

- Y Axis Travel
  - ± 50 mm
High Precision, High Rigidity Spindle

- Pin Tube Rib Design for Minimal Thermal Growth
  The pin tube rib design of the Headstock ensures minimal thermal growth, and precision (class P4) angular contact ball bearings in the front and rear provide high rigidity for heavy-duty machining and unsurpassed surface finish.

Max. Bar-work capacity
Ø 65 mm
Spindle Speed (8” Chuck)
Max 4,000 rpm

Main-Spindle & Headstock

The Spindle and Headstock are machined and ground in a temperature-controlled environment and assembled in a clean room.

Main-Spindle Power & Torque Diagram

Spindle Power
15/11 kW
Maximum Spindle Torque
26kgf.m

High Accuracy, High Rigidity Sub-Spindle

- Built-in Sub-Spindle Motor
  - The sub-spindle with full C-axis capability allows milling, drilling and tapping on the back side of parts, and a powerful 7.5kW Fanuc built-in motor provides fast acceleration with high torque (6kgf.m)
  - Precision angular contact ball bearings located in the front and double row cylindrical roller bearings in the rear of the sub-spindle ensure heavy-duty cutting as well as unsurpassed surface finish.

Max. Bar-work capacity
Ø 35 mm
Spindle Speed (6” Chuck)
Max 6,000 rpm

Sub-Spindle & Headstock

The Spindle and Headstock are machined and ground in a temperature-controlled environment and assembled in a clean room.

Sub-Spindle Power & Torque Diagram

Spindle Power
7.5/5.5 kW
Maximum Spindle Torque
6kgf.m
High Accuracy, High Rigidity Sub-Spindle

- Built-in Sub-Spindle Motor
  - The sub-spindle with full C-axis capability allows milling, drilling and tapping on the back side of parts, and a powerful 7.5kW Fanuc built-in motor provides fast acceleration with high torque (6kgf.m)
  - Precision angular contact ball bearings located in the front and double row cylindrical roller bearings in the rear of the sub-spindle ensure heavy-duty cutting as well as unsurpassed surface finish.

Max. Bar-work capacity
Ø 35 mm
Spindle Speed (6” Chuck)
Max 6,000 rpm

High Precision, High Rigidity Spindle

- Pin Tube Rib Design for Minimal Thermal Growth
  - The pin tube rib design of the Headstock ensures minimal thermal growth, and precision (class P4) angular contact ball bearings in the front and rear provide high rigidity for heavy-duty machining and unsurpassed surface finish.

Max. Bar-work capacity
Ø 65 mm
Spindle Speed (8” Chuck)
Max 4,000 rpm

The Spindle and Headstock are machined and ground in a temperature controlled environment and assembled in a clean room.

Sub-Spindle Power & Torque Diagram
Unit: inch

Main-Spindle Power & Torque Diagram
Unit: inch

Main-Spindle & Headstock

The Spindle and Headstock are machined and ground in a temperature controlled environment and assembled in a clean room.

Sub-Spindle & Headstock

The Spindle and Headstock are machined and ground in a temperature controlled environment and assembled in a clean room.

Main-Spindle & Headstock

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Main-Spindle Power & Torque Diagram
Unit: inch

Sub-Spindle Power & Torque Diagram
Unit: inch

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Main-Spindle & Headstock

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Main-Spindle Power & Torque Diagram
Unit: inch

Sub-Spindle Power & Torque Diagram
Unit: inch

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Main-Spindle Power & Torque Diagram
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Sub-Spindle Power & Torque Diagram
Unit: inch

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Sub-Spindle Power & Torque Diagram
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Main-Spindle Power & Torque Diagram
Unit: inch

Sub-Spindle Power & Torque Diagram
Unit: inch

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Main-Spindle & Headstock

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Main-Spindle Power & Torque Diagram
Unit: inch

Sub-Spindle Power & Torque Diagram
Unit: inch

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Main-Spindle Power & Torque Diagram
Unit: inch

Sub-Spindle Power & Torque Diagram
Unit: inch

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Main-Spindle Power & Torque Diagram
Unit: inch

Sub-Spindle Power & Torque Diagram
Unit: inch

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Main-Spindle Power & Torque Diagram
Unit: inch

Sub-Spindle Power & Torque Diagram
Unit: inch

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Sub-Spindle Power & Torque Diagram
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Main-Spindle Power & Torque Diagram
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Sub-Spindle Power & Torque Diagram
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Main-Spindle Power & Torque Diagram
Unit: inch

Sub-Spindle Power & Torque Diagram
Unit: inch

The Spindle and Headstock are machined and ground in a temperature controlled environment and assembled in a clean room.
**SAMSUNG Machine Tools PL2000SY**

### Variety of Functions

#### Machine Structure
- **Fast Indexing and Heavy-Duty Turret Design**
  The 12 station heavy-duty turret features a large diameter 3-piece Curvic coupling and 3533kgf/m of hydraulic clamp force. The heavy-duty design provides high rigidity for heavy cutting, unsurpassed surface finishes, and long tool life. Turret rotation, deceleration and clamp are all controlled by a reliable high torque servo motor. Turret indexing is non-stop bi-directional with a 0.2 second next station index time. Each turret station is capable of accepting both milling and turning tools.

- **Rigid 30 degree Slant Bed**
  30 degree slant torque tube design bed and wide guide slide way ensure long term rigidity and machining accuracy.

- **Swivel Operation Panel**
  Swivel operation panel of 10.4 inch color TFT LCD monitor can turn to 81 degree, providing operators with easy access to the control panel while working on the machine.

- **Pre-tensioned and Double Anchored Ballscrews**
  All axes ballscrews are pre-tensioned, heat treated, and fixed by double anchors on both ends, providing ultimate rigidity and minimal thermal growth.

- **Synchronized C1 and C2-Axis Indexing**
  Synchronized C1-axis (main spindle) and C2-axis (sub-spindle) indexing provides machining flexibility in a wide variety of workpiece configurations. From simple turning and milling to multi-axis simultaneous machining, all operations can be completed in one set-up.

- **Hexahedral Slide Way Frame**
  Wide integral way is machined from the casting, induction hardened and precision ground to ensure long-term rigidity and machining accuracy and heavy-duty machining.

- **Sub-Spindle Oil Cooling Unit**
  Sub-spindle is surrounded by an oil jacket cooling system to minimize thermal displacement and to ensure machining accuracy regardless of different machining conditions.

#### Turret Structure
- **Fast Indexing and Heavy-Duty Turret Design**
  The 12 station heavy-duty turret features a large diameter 3-piece Curvic coupling and 3533kgf/m of hydraulic clamp force. The heavy-duty design provides high rigidity for heavy cutting, unsurpassed surface finishes, and long tool life. Turret rotation, deceleration and clamp are all controlled by a reliable high torque servo motor. Turret indexing is non-stop bi-directional with a 0.2 second next station index time. Each turret station is capable of accepting both milling and turning tools.

#### Variations
- **Y-Axis Machining**
  Y-axis adds integrated machining feature to a conventional turning center, providing machining capability on the workpiece that is not parallel or perpendicular to the spindle center line.

- **Bar machining with Y-axis control**
  Side milling

  Off-center drilling

- **Y-Axis Machining**
  Y-axis adds integrated machining feature to a conventional turning center, providing machining capability on the workpiece that is not parallel or perpendicular to the spindle center line.

- **Y-axis Rapid Travel**
  12 m/min

- **± 50 mm Y axis Rapid Travel**
  12 m/min

- **Synchronized C1 and C2-Axis Indexing**
  Synchronized C1-axis (main spindle) and C2-axis (sub-spindle) indexing provides machining flexibility in a wide variety of workpiece configurations. From simple turning and milling to multi-axis simultaneous machining, all operations can be completed in one set-up.

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- **Synchronized C1 and C2-Axis Indexing**
  Synchronized C1-axis (main spindle) and C2-axis (sub-spindle) indexing provides machining flexibility in a wide variety of workpiece configurations. From simple turning and milling to multi-axis simultaneous machining, all operations can be completed in one set-up.

- **Hexahedral Slide Way Frame**
  Wide integral way is machined from the casting, induction hardened and precision ground to ensure long-term rigidity and machining accuracy and heavy-duty machining.

- **Sub-Spindle Oil Cooling Unit**
  Sub-spindle is surrounded by an oil jacket cooling system to minimize thermal displacement and to ensure machining accuracy regardless of different machining conditions.
Variety of Functions

### Turret Structure

**Fast Indexing and Heavy-Duty Turret Design**
The 12 station heavy-duty turret features a large diameter 3-piece Curvic coupling and 3553kgf/m of hydraulic clamp force. The heavy-duty design provides high rigidity for heavy cutting, unsurpassed surface finishes, and long tool life. Turret rotation, deceleration and clamp are all controlled by a reliable high torque servo motor. Turret indexing is non-stop bi-directional with a 0.2 second next station index time. Each turret station is capable of accepting both milling and turning tools.

### Variations

**Y-Axis Machining**
Y-axis adds integrated machining feature to a conventional turning center, providing machining capability on the workpiece that is not parallel or perpendicular to the spindle center line.

**Bar machining with Y-axis control**
Side milling

**Pre-tensioned and Double Anchored Ballscrews**
All axes ballscrews are pre-tensioned, heat treated, and fixed by double anchors on both ends, providing ultimate rigidity and minimal thermal growth.

**Synchronized C1 and C2-Axis Indexing**
Synchronized C1-axis (main spindle) and C2-axis (sub-spindle) indexing provides machining flexibility in a wide variety of workpiece configurations. From simple turning and milling to multi-axis simultaneous machining, all operations can be completed in one set-up.

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**Sub-Spindle Oil Cooling Unit**
Sub-spindle is surrounded by an oil jacket cooling system to minimize thermal displacement and to ensure machining accuracy regardless of different machining conditions.
## High Precision

- **Surface Roughness (O.D., cutting)**
  - 2.1 μm R_y

- **Roundness**
  - 0.35 μm (actual result)

## Processing Speed

- **Spindle speed**
  - 518 rpm
- **Cutting speed**
  - 120 m/min
- **Depth of cut**
  - 6 mm <Spindle Load 40%>
  - Feed rate
  - 0.3 mm/rev

## Standard Accessories

- Tool Presetter
- Automatic Lubricator
- Full Cover

## Optional Accessories

- Auto Door
- Chip Conveyor
- Parts Catcher

## Tooling System

- Main O.D Holder
- Double O.D Holder
- Boring Holder
- U-Drill Holder
- Axial Driven Holder
- Radial Driver Holder

### Standard Set Numbers

- (1): Standard Set Numbers

### Tooling System Items

- Drill
- Drill Bar (Ø 50 x 1")
- Drilling Bar
- Boring Bar (Ø 25)
- Boring Bar Sleeves

### Overview of Tooling System

- 12-station Turret (BMT 65)
### High Precision

- **Surface Roughness (O.D, cutting)**: 2.1 μm Ry
- **Roundness**: 0.35 μm (actual result)

### Processing Speed

- **Turning Performance** (material: SM45C) PL2000SY
  - Spindle speed: 518 rpm
  - Cutting speed: 120 m/min
  - Depth of cut: 6 mm <Spindle Load 40%>
  - Feedrate: 0.3 mm/rev

### Standard Accessories
- Tool Presetter
- Automatic Lubricator
- Full Cover

### Optional Accessories
- Auto Door
- Chip Conveyor
- Parts Catcher

### Tooling System

- Main O.D Holder
- Double O.D Holder
- Boring Holder
- U-Drill Holder
- Axial Driven Holder
- Radial Driver Holder
- 12-station Turret (BMT 65)

### Varieties of Functions

#### Standard Accessories
- Tool Presetter
- Automatic Lubricator
- Full Cover

#### Optional Accessories
- Auto Door
- Chip Conveyor
- Parts Catcher
### Variety of Functions

#### Machine Dimensions

#### Turret Head Interference

#### Work Range

#### Major Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>PL2000SY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAPACITY</strong></td>
<td></td>
</tr>
<tr>
<td>Swing over the bed (mm)</td>
<td>ø 650</td>
</tr>
<tr>
<td>Swing over the cross slide (mm)</td>
<td>540</td>
</tr>
<tr>
<td>Max. machining diameter (mm)</td>
<td>360</td>
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<tr>
<td>Max. machining length (mm)</td>
<td>320</td>
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<tr>
<td><strong>MAIN SPINDLE</strong></td>
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<tr>
<td>Chuck size (inch)</td>
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</tr>
<tr>
<td>Speed (rpm)</td>
<td>4,000</td>
</tr>
<tr>
<td>Spindle nose (ASA)</td>
<td>A2-6</td>
</tr>
<tr>
<td>Bore diameter (mm)</td>
<td>ø 76</td>
</tr>
<tr>
<td>Draw tube (D1) (mm)</td>
<td>66</td>
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<tr>
<td>Motor (30 min/cont.) (kW)</td>
<td>15/11.1</td>
</tr>
<tr>
<td><strong>SUB SPINDLE</strong></td>
<td></td>
</tr>
<tr>
<td>Chuck size (inch)</td>
<td>6</td>
</tr>
<tr>
<td>Speed (rpm)</td>
<td>6,000</td>
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<td>Spindle nose (ASA)</td>
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<td>Bore diameter (mm)</td>
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<td>Draw tube (D1) (mm)</td>
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<td>Motor (30 min/cont.) (kW)</td>
<td>7.5/5.5</td>
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<tr>
<td><strong>TRAVEL</strong></td>
<td></td>
</tr>
<tr>
<td>X/Z/Y/B axis travel (mm)</td>
<td>235/580/100/580</td>
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<tr>
<td>X/Z/Y/B axial traverse (mm/min)</td>
<td>16/24/12/24</td>
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<tr>
<td>X/Z/Y/B feed motor (kW)</td>
<td>3/4/3/4</td>
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<tr>
<td><strong>TURRET</strong></td>
<td></td>
</tr>
<tr>
<td>Number of tool positions (st)</td>
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<tr>
<td>Indexing time (sec)</td>
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<tr>
<td>Shank size for square tool (mm)</td>
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<tr>
<td>Shank diameter for boring bar (mm)</td>
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<td>Live tool type</td>
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<tr>
<td>Live tool spindle (rpm)</td>
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<tr>
<td>Milling motor (30 min/cont.) (kW)</td>
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<tr>
<td><strong>ELECTRIC POWER SUPPLY</strong></td>
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<td>kVA</td>
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<tr>
<td><strong>REQUIRED FLOOR SPACE</strong></td>
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<tr>
<td>mm</td>
<td>3,600 × 1,930</td>
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<tr>
<td><strong>MACHINE WEIGHT</strong></td>
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<tr>
<td>Kg</td>
<td>5,800</td>
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<tr>
<td><strong>CONTROLLER</strong></td>
<td></td>
</tr>
<tr>
<td>Fanuc 18i-T</td>
<td></td>
</tr>
</tbody>
</table>

- Figures in inches are converted from metric measurements.
- Design and specifications subject to change without notice.

#### Standard Accessories
- COOLANT SYSTEM
- BUILT-IN WORK LIGHT
- SPLASH GUARD
- HAND TOOLS
- TOOL HOLDER
- 8" HYDRAULIC CHUCK
- 6" HYDRAULIC CHUCK
- TOOL PRESETTER
- SOFT JAW
- 8", 6" each 3 SET
- LEVELING BLOCK

#### Optional Accessories
- HARD JAW
- 8", 6" each 1 SET
- CHIP CONVEYOR
- PARTS CATCHER
- AUTO DOOR
- AIR BLOW UNIT
- AUTO MEASURING SYSTEM
### Varieties of Functions

**PL2000SY**

**SAMSUNG Machine Tools**

**CNC TURNING CENTER**

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### Major Specifications

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PL2000SY</th>
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<tbody>
<tr>
<td>CAPACITY</td>
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<td>Swing over the bed (mm)</td>
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<tr>
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<td>360</td>
</tr>
<tr>
<td>Max. machining length (mm)</td>
<td>520</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MAIN SPINDLE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chuck size (inch)</td>
<td>8</td>
</tr>
<tr>
<td>Speed (rpm)</td>
<td>4,000</td>
</tr>
<tr>
<td>Spindle nose</td>
<td>ASA A2-6</td>
</tr>
<tr>
<td>Bore diameter (mm)</td>
<td>ø 78</td>
</tr>
<tr>
<td>Draw tube (Ø2) (mm)</td>
<td>66</td>
</tr>
<tr>
<td>Motor (30min/cont.) (kW)</td>
<td>15 / 11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SUB SPINDLE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chuck size (inch)</td>
<td>6</td>
</tr>
<tr>
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<td>6,000</td>
</tr>
<tr>
<td>Spindle nose</td>
<td>ASA A2-6</td>
</tr>
<tr>
<td>Bore diameter (mm)</td>
<td>46</td>
</tr>
<tr>
<td>Draw tube (Ø2) (mm)</td>
<td>56</td>
</tr>
<tr>
<td>Motor (30min/cont.) (kW)</td>
<td>7.5 / 5.5</td>
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</table>

<table>
<thead>
<tr>
<th>TRAVEL</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X/Z/Y/B axis travel (mm)</td>
<td>225 / 580 / 150 / 580</td>
</tr>
<tr>
<td>X/Z/Y/B rapid traverse rate (mm/min)</td>
<td>16 / 24 / 12 / 24</td>
</tr>
<tr>
<td>X/Z/Y/B feed motor (kW)</td>
<td>3 / 4 / 3 / 4</td>
</tr>
</tbody>
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<table>
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<tr>
<th>TURRET</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Number of tool positions (st)</td>
<td>12</td>
</tr>
<tr>
<td>Indexing time (sec)</td>
<td>0.2</td>
</tr>
<tr>
<td>Shank size for square tool (mm)</td>
<td>ø 25</td>
</tr>
<tr>
<td>Shank diameter for boring bar (mm)</td>
<td>ø 50</td>
</tr>
<tr>
<td>Live tool type</td>
<td>BMT15</td>
</tr>
<tr>
<td>Live tool speed (rpm)</td>
<td>5,000</td>
</tr>
<tr>
<td>Milling motor (30min/cont.) (kW)</td>
<td>5.5 / 3.7</td>
</tr>
</tbody>
</table>

**ELECTRIC POWER SUPPLY** (kVA) | 45 |

**REQUIRED FLOOR SPACE (mm)** | 5,800 × 3,600 |

**MACHINE WEIGHT (kg)** | 5,800 |

**CONTROLLER** | Fanuc 18i

---

*Figures in inches are converted from metric measurements.*

*Design and specifications subject to change without notice.*

---

### Turret Head Interference

<table>
<thead>
<tr>
<th>Unit</th>
<th>mm</th>
</tr>
</thead>
</table>

### Work Range

| Unit | mm |

---

### Standard Accessories

- COOLANT SYSTEM
- BUILT-IN WORK LIGHT
- SPLASH GUARD
- HAND TOOLS
- TOOL HOLDER
- 8” HYDRAULIC CHUCK
- 6” HYDRAULIC CHUCK
- TOOL PRESETTER
- SOFT JAW
- 8”, 6” each 3 SET
- 8”, 6” each 1 SET
- CHIP CONVEYOR
- PARTS CATCHER
- AUTO DOOR
- AIR BLOW UNIT
- AUTO MEASURING SYSTEM

---

### Optional Accessories

- HARD JAW
<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Controls</strong></td>
<td></td>
</tr>
<tr>
<td>Controlled Axes (6 axes)</td>
<td>60 digits, Binary Output</td>
</tr>
<tr>
<td>Simultaneous Controllable Axes</td>
<td></td>
</tr>
<tr>
<td>Last Input Increment/Last Command Increment</td>
<td></td>
</tr>
<tr>
<td>Least Input Increment</td>
<td></td>
</tr>
<tr>
<td><strong>Spindle functions</strong></td>
<td></td>
</tr>
<tr>
<td>Spindle Speed Command</td>
<td></td>
</tr>
<tr>
<td>Spindle Speed Override</td>
<td></td>
</tr>
<tr>
<td>Spindle Orientation (1 Position)</td>
<td></td>
</tr>
<tr>
<td>Maximum Programmable Dimensions</td>
<td></td>
</tr>
<tr>
<td>Interpolation Functions</td>
<td></td>
</tr>
<tr>
<td>Absolute and Incremental Command</td>
<td></td>
</tr>
<tr>
<td>Decimal Point Input</td>
<td></td>
</tr>
<tr>
<td>Miscellaneous Function</td>
<td></td>
</tr>
<tr>
<td>Rigid Tap</td>
<td></td>
</tr>
<tr>
<td>Program Stop</td>
<td></td>
</tr>
<tr>
<td>M00, M01</td>
<td></td>
</tr>
<tr>
<td>Program End</td>
<td></td>
</tr>
<tr>
<td>M02, M03</td>
<td></td>
</tr>
<tr>
<td>Programmable Data Input</td>
<td></td>
</tr>
<tr>
<td><strong>Programming functions</strong></td>
<td></td>
</tr>
<tr>
<td>Manual Jog Feed - Rapid, Jog Feed, Handle</td>
<td></td>
</tr>
<tr>
<td>Manual Handle Feeding, Idle</td>
<td></td>
</tr>
<tr>
<td>F Initial value setting</td>
<td></td>
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<tr>
<td>Rapid Traverse Override</td>
<td></td>
</tr>
<tr>
<td>Manual Continuous Feed</td>
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</tr>
<tr>
<td>Jog Handle (Same Mode)</td>
<td></td>
</tr>
<tr>
<td>Automatic Corner Override</td>
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<tr>
<td>Incremental Feed</td>
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</tr>
<tr>
<td><strong>Feed functions</strong></td>
<td></td>
</tr>
<tr>
<td>Cutter Compensation (G00)</td>
<td></td>
</tr>
<tr>
<td>Tool Offset Number</td>
<td></td>
</tr>
<tr>
<td>Tool Life Management</td>
<td></td>
</tr>
<tr>
<td><strong>Tool functions</strong></td>
<td></td>
</tr>
<tr>
<td>Cutter Compensation (G40~G42)</td>
<td></td>
</tr>
<tr>
<td>Tool Life Management</td>
<td></td>
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<tr>
<td><strong>Tape functions</strong></td>
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</tr>
<tr>
<td>Tape Code</td>
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<tr>
<td>Number of Register-able Program</td>
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<tr>
<td>Part Program Storage Length</td>
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<tr>
<td><strong>Other functions</strong></td>
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<tr>
<td>Custom Macro B</td>
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<tr>
<td>Skip Function</td>
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<tr>
<td>CRT/MCI</td>
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<tr>
<td>Program Protect Key</td>
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<tr>
<td>Back Ground Editing</td>
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<tr>
<td>Run Hour Display</td>
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<tr>
<td>Program Restart</td>
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<tr>
<td><strong>Options</strong></td>
<td></td>
</tr>
<tr>
<td>Advanced Motion Control(53 pairs)</td>
<td></td>
</tr>
<tr>
<td>Additional Work Coordinate System(48 pairs)</td>
<td></td>
</tr>
<tr>
<td>Polar Coordinate Command / Interpolation</td>
<td></td>
</tr>
<tr>
<td>Helical Interpolation</td>
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<tr>
<td>Cylindrical Interpolation(Additional axis needed)</td>
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<tr>
<td>Extended Part Program Editing</td>
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<tr>
<td>Single Direction Positioning(360°)</td>
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<tr>
<td>Coordinate System Rotation</td>
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<tr>
<td>External Data Input / Output</td>
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</tr>
<tr>
<td>Optional Chamfering/Corner R</td>
<td></td>
</tr>
<tr>
<td>Optional Block Skip 9 EA</td>
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<tr>
<td>Handle Interrupt</td>
<td></td>
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<tr>
<td>Part Program Storage</td>
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</table>

**NC Unit Specifications / FANUC 18-TB**

**SAMSUNG Machine Tools**

**PL2000SY**

**CNC TURNING CENTER**