

# 5 AXIS MACHINING AT ITS BEST



## Key Features

- Simultaneous 5-Axis Machining
- High-Speed, High-Precision
- Dual Direct Drive 5-axis Rotary
- Robust Build and Thermal Stability
- Advanced Control System
- Excellent Chip Management System

## Industries

-  Automotive
-  Aerospace
-  General Engineering
-  Medical & more...

# Technical Specifications

|            | Description                              | Unit    | PUM 300             | PUM 400             | PUM 500             | PUM 700             |
|------------|------------------------------------------|---------|---------------------|---------------------|---------------------|---------------------|
| Table      | Table Dia                                | mm      | 300                 | 400                 | 500                 | 700                 |
|            | Rotary Table 5-axis                      | type    | Double Direct Drive | Double Direct Drive | Double Direct Drive | Double Direct Drive |
|            | Max. Load Capacity                       | kg      | 100                 | 150                 | 300                 | 850                 |
|            | Table Tilting Angle                      | deg     | ± 110               | ± 110               | ± 110               | ± 110               |
|            | Spindle Nose to Rotary Tabletop          | mm      | 120 - 470           | 120 - 570           | 120 - 570           | 120 - 720           |
| Spindle    | Spindle Taper                            | type    | HSK-A50             | HSK-A63             | HSK A-63            | HSK A-63            |
|            | Spindle Speed                            | rpm     | 20,000              | 18,000              | 18,000              | 18,000              |
|            | Spindle Driving Method                   | type    | Built-In            | Built-In            | Built-In            | Built-In            |
|            | Main Spindle Power Output                | kw      | 11                  | 20                  | 20                  | 30                  |
|            | Max. Spindle Torque                      | nm      | 69.4                | 31                  | 31                  | 105                 |
| Feed       | Travel (X/Y/Z)                           | mm      | 400 / 500 / 350     | 450 / 650 / 450     | 600 / 700 / 450     | 750 / 800 / 600     |
|            | Rapid Rate (X/Y/Z)                       | m/min   | 36 / 36 / 36        | 36 / 36 / 36        | 36 / 36 / 36        | 36 / 36 / 36        |
|            | Feed Rate (X/Y/Z)                        | m/min   | 12                  | 15                  | 15                  | 15                  |
|            | Guideways                                | type    | Ball                | Ball                | Ball                | Ball                |
| ATC        | Number of Tools                          | nos.    | 32                  | 32                  | 32                  | 32                  |
|            | Max. Tool Dia. (W.T / W.O)               | mm      | 50 / 65             | 70 / 120            | 70 / 120            | 70 / 120            |
|            | Max. Tool Length                         | mm      | 100                 | 300                 | 300                 | 300                 |
|            | Max. Tool Weight                         | kg      | 3                   | 8                   | 8                   | 8                   |
| Accuracy   | Positioning (with scales)                | mm      | 0.005               | 0.005               | 0.005               | 0.005               |
|            | Repeatability (with scales)              | mm      | 0.003               | 0.003               | 0.003               | 0.003               |
|            | Rotary Indexing Accuracy (with Encoder)  | arc sec | ± 5"                | ± 5"                | ± 5"                | ± 5"                |
|            | Tilting Indexing Accuracy (with Encoder) | arc sec | 4"                  | 4"                  | 4"                  | 4"                  |
| Others     | Air Consumption                          | bar     | 6                   | 6                   | 6                   | 6                   |
|            | Electric Power Supply                    | kva     | 26                  | 30                  | 35                  | 35                  |
| Machine    | Machine Dimensions                       | mm      | 1900 X 3000 X 2600  | 2200 X 3300 X 3000  | 2600 x 3600 x 3300  | 2800 x 3600 x 3,600 |
|            | Machine Weight                           | kg      | 6500                | 9000                | 13000               | 17000               |
| Controller | 15 Inch Screen                           | make    | SYNTEC              | SYNTEC              | SYNTEC              | SYNTEC              |

\*Technical specifications and optional items may be subject to change without prior notice.

## Standard Accessories

- Spindle Oil Chiller
- Dual Direct Drive 5-axis Rotary
- Linear Scales XYZ axis
- Rotary Encoders A & C axis
- Pretensioned Ballscrew on X/Y/Z axes
- Automatic Tool Changer (Twin Arm Type): 32 tools
- Spindle nose taper: HSK-A50 / HSK-A63
- 15" LCD SYNTEC Controller
- Manual Pulse Generator
- Rigid Tapping
- CF / USB interface
- Auto Power OFF
- Door Interlock
- LED Machine Light
- Auto Lubrication System (for slide way & ballscrew)
- Spindle Air Blast
- Air Gun
- Coolant Gun
- Panel AC
- Coolant Tank with Chip Tray & Pumps
- Spindle Coolant Nozzles, Ring Spray
- Fully Enclosed Splash Guard
- Transformer



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