

TWM

TWM-160·250



TWM-160, PS

Tilt type multi-spindle enables highly productive machining. Simultaneous machining of multiple workpieces with complex shapes and 5-face machining is possible.

Specifications

Unit: mm

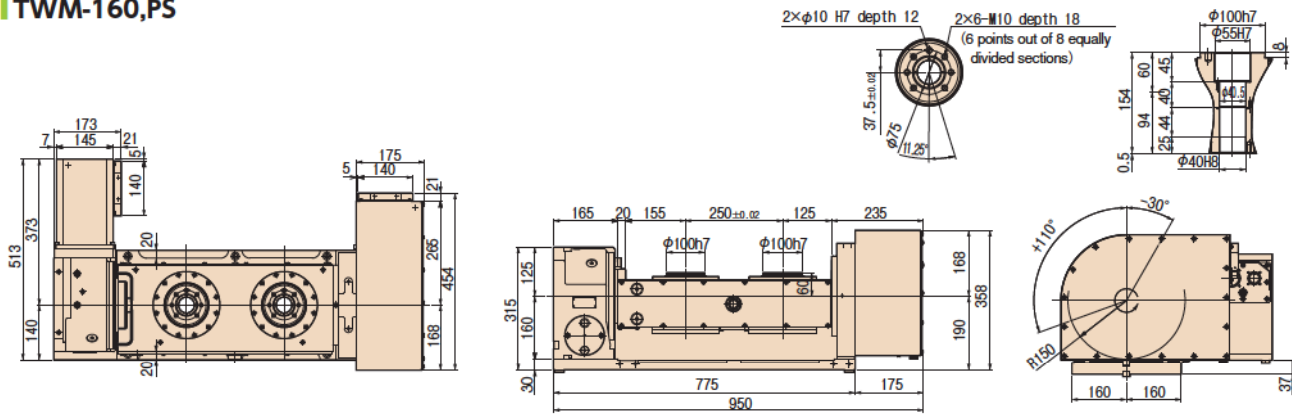
| | | TWM-160 | | TWM-250 | |
|---|---------------|--------------------------------------|-----------|-----------------------------|-------------------------------------|
| Tilt range | | -30° ~ +110° | | -30° ~ +110° | |
| Spindle diameter | | φ 100h7 | | φ 140h7 | |
| Table diameter*1 | | φ 160 or φ 200 (Option) | | φ 250 (Option) | |
| Distance between spindles | | 250 or 320 | | 320 or 400 | |
| Table height at 0° position | | 250 (280 W/face plate) | | 325 (355 W/face plate) | |
| Center height at 90° position | | 190 | | 260 | |
| Center bore | Nose diameter | φ 55H7 | | φ 80H7 | |
| | Through-bore | φ 40 | | φ 50 | |
| Guide block width | | 18h7 | | 18h7 | |
| Servo motors (for FANUC) | | Rotary axis | Tilt axis | Rotary axis | Tilt axis |
| | | αiF4 | αiF8 | αiF8 | αiF12 |
| Inertia converted into motor shaft × 10 ⁻³ kg·m ² | | 0.52 | 0.50 | 0.69 | 4.40 |
| Speed reduction ratio | | 1/60 | 1/90 | 1/90 | 1/90 |
| Table max. rpm | | 50 | 33.3 | 33.3 | 33.3 |
| | | (Motor rpm: 3,000min ⁻¹) | | | |
| Clamp system | | Pneumatic | Pneumatic | Pneumatic | Hydraulic or air-hydraulic (Option) |
| Supplied pressure | | 0.49MPa | 0.49MPa | 0.49MPa | 3.5MPa |
| Clamp torque N·m | | 500 | 1000 | 1000 | 3100 |
| Indexing accuracy(the sum) arc sec | | 30 | — | 20 | — |
| Tilting accuracy | | Tilt 0° ~ 90° arc sec | — | 60 | 60 |
| | | Tilt -30° ~ 90° arc sec | — | 75 | 75 |
| Net weight kg | | 240 | | 550 | |
| Strength of worm gears (Rotary axis) N·m | | 200 | | 596 | |
| Allowable work weight | | 40 | | 100 | |
| | | 0° (Horizontal) | | 0° ~ 90° (Tilting) | |
| Allowable work moment | | 55.8 | | 347.4 | |
| | | W×L | | W×L | |
| Allowable load (when table is clamped) | | 10800 | | 14400 | |
| | | F | | F | |
| Allowable load (when table is clamped) | | 500 | | 1000 | |
| | | F×L | | F×L | |
| Allowable load (when table is clamped) | | 1000 | | 3100 | |
| | | F×L | | F×L | |
| Allowable work inertia (per single-axis) | | 0.13 | | 0.9 | |
| | | J = $\frac{W \cdot D^2}{8}$ | | J = $\frac{W \cdot D^2}{8}$ | |

☞ Servo motors of other manufacturers **P.66**

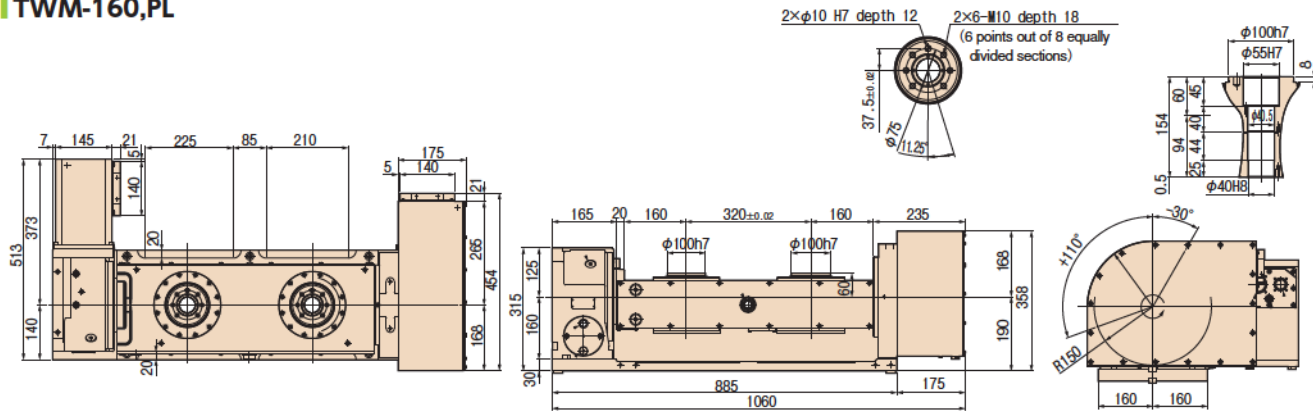
Dimensions

Unit: mm

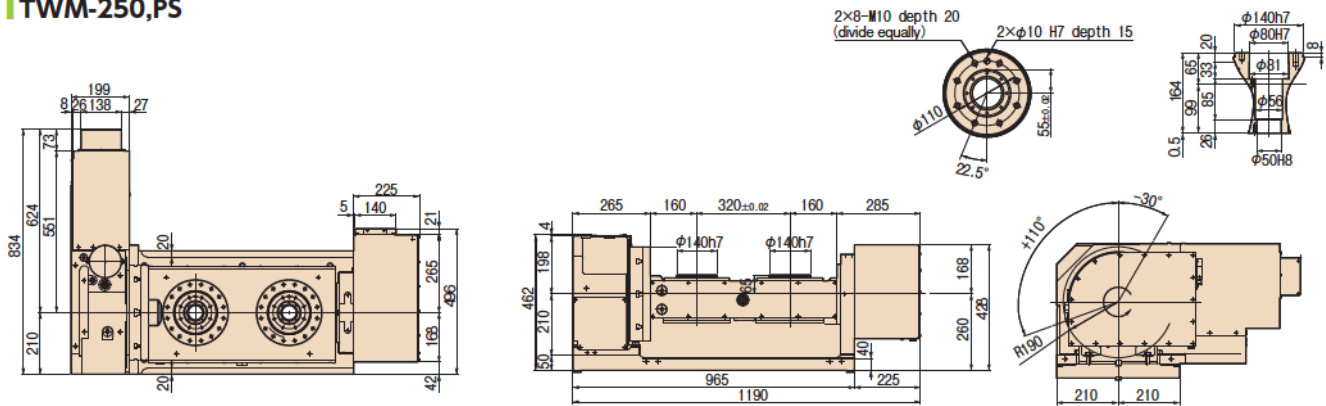
TWM-160,PS



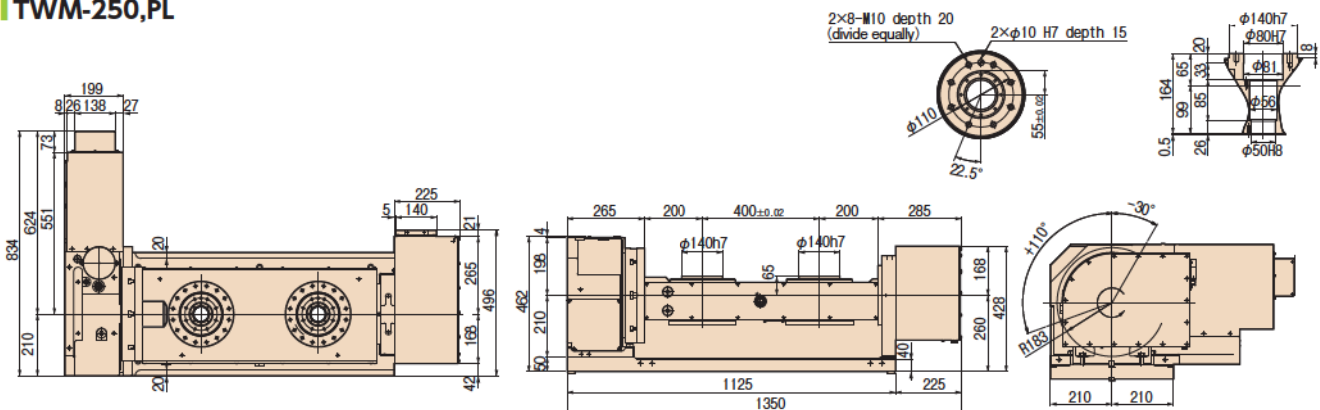
TWM-160,PL



TWM-250,PS



TWM-250,PL



Note: The above dimensions are for FANUC servo motors. The dimensions of servo motors of other manufacturers may be larger.

RBS

TBS

RWE/RWA
RN

RWE/RWA-B
RNCV-B

RNCM

RWB

RWB-K
RNCK

RCH
RNC

RCV
RNCV

Multi-Spindle
RWM

TWA/TN

TTNC

THNC

Multi-Spindle
TWM

RDS

RTV
RTT

RCB

NC Controllers

Accessories

Options

Technical
Information