

## Support Spindle

User friendly renewal allows mounting of compact rotary joint and the top surface design of the spindle is the same as the basic models RWA/RWE/RWA-160.

Rotary joint **P.66**

### Compatible Rotary Tables

| Support spindle type                                     | No clamp | Pneumatic clamp | Hydraulic clamp | Strong hydraulic clamp |
|----------------------------------------------------------|----------|-----------------|-----------------|------------------------|
| NC Rotary Table                                          |          |                 |                 |                        |
| RWE/RWA/RWH-160                                          | SS-135   | SE-135          | SH-135          | —                      |
| RBS/RBH-160<br>RWE/RWA/RWH-200<br>RWA/RWH-250<br>RWB-250 | SS-160   | SE-160          | SH-160          | SSB-160                |
| RBS/RBH-250<br>RWA/RWH-320<br>RWB-320                    | SS-210   | SE-210          | SH-210          | SSB-210                |
| RWB-400                                                  | —        | —               | —               | SSB-255                |
| RWB-500                                                  | —        | —               | —               | SSB-310                |

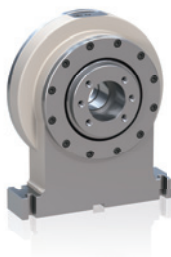
### Order Code

|          |           |   |               |   |   |
|----------|-----------|---|---------------|---|---|
| S        | S         | - | 1             | 3 | 5 |
|          |           |   | Center height |   |   |
| Alphabet | Clamp     |   |               |   |   |
| S        | No clamp  |   |               |   |   |
| E        | Pneumatic |   |               |   |   |
| H        | Hydraulic |   |               |   |   |

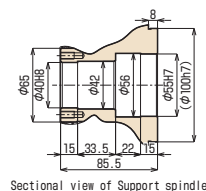
  

|   |   |   |   |               |   |   |
|---|---|---|---|---------------|---|---|
| S | S | B | - | 1             | 6 | 0 |
|   |   |   |   | Center height |   |   |

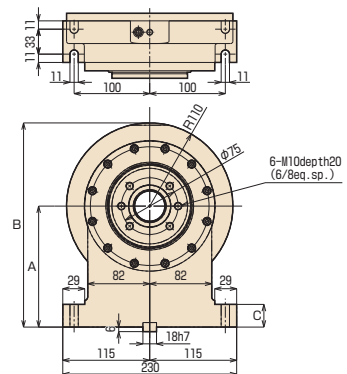
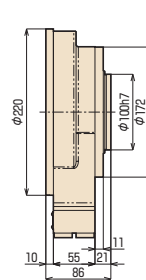
### SS-□□□ (No clamp)



SS-160



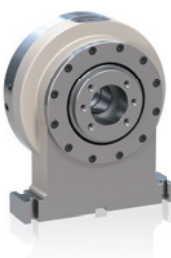
Sectional view of Support spindle



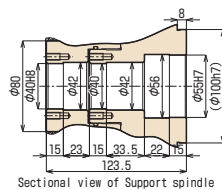
Unit: mm

| Order Code | A   | B   | C  | Weight kg |
|------------|-----|-----|----|-----------|
| SS-135     | 135 | 245 | 25 | 19        |
| SS-160     | 160 | 270 | 30 | 21        |
| SS-210     | 210 | 320 | 30 | 24        |

### SE-□□□ (Pneumatic clamp)

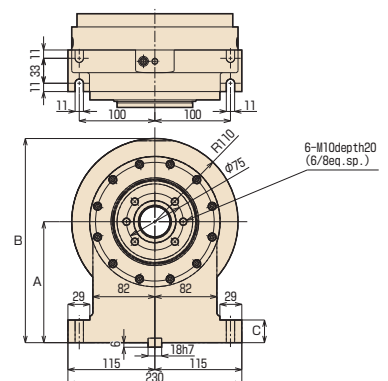
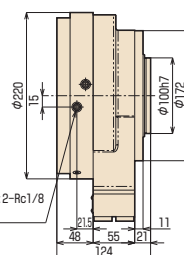


SE-160



Sectional view of Support spindle

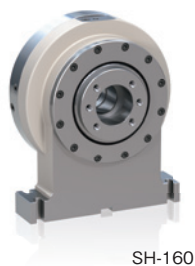
Pneumatic feed port for clamp op.: 2-Rc1/8 (both sides)



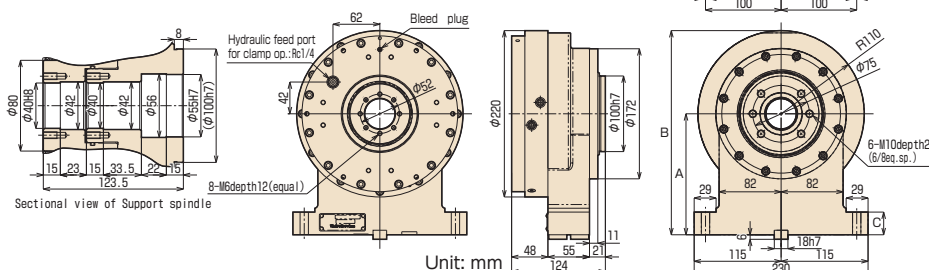
Unit: mm

| Order Code | A   | B   | C  | Clamping Torque (N·m)<br>(0.49MPa) | Weight kg |
|------------|-----|-----|----|------------------------------------|-----------|
| SE-135     | 135 | 245 | 25 | 400                                | 28        |
| SE-160     | 160 | 270 | 30 |                                    | 30        |
| SE-210     | 210 | 320 | 30 |                                    | 33        |

## SH-□□□ (Hydraulic clamp)

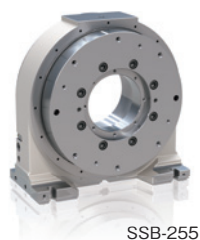


SH-160

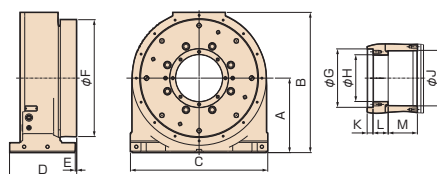


| Order Code | A   | B   | C  | Clamping Torque (N·m)<br>(3.5MPa) | Weight kg |
|------------|-----|-----|----|-----------------------------------|-----------|
| SH-135     | 135 | 245 | 25 | 800                               | 28        |
| SH-160     | 160 | 270 | 30 |                                   | 30        |
| SH-210     | 210 | 320 | 30 |                                   | 33        |

## SSB-□□□

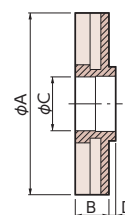
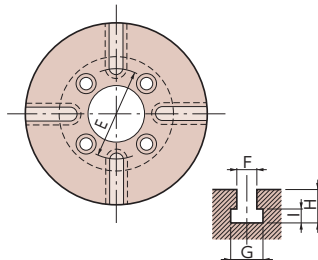


SSB-255

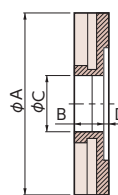


| Order Code | A   | B   | C   | D   | E | F   | G     | H     | J     | K  | L  | M   | Clamping Torque (N·m) |        | Weight kg |
|------------|-----|-----|-----|-----|---|-----|-------|-------|-------|----|----|-----|-----------------------|--------|-----------|
|            |     |     |     |     |   |     |       |       |       |    |    |     | 3.5MPa                | 4.9MPa |           |
| SSB-160    | 160 | 303 | 290 | 175 | 5 | 250 | 105H7 | 80H7  | 95H8  | 15 | 42 | 66  | 1,300                 | 2,000  | 60        |
| SSB-210    | 210 | 396 | 380 | 210 | 5 | 320 | 150H7 | 120H7 | 145H8 | 15 | 50 | 90  | 3,100                 | 4,700  | 120       |
| SSB-255    | 255 | 480 | 470 | 230 | 5 | 400 | 200H7 | 160H7 | 190H8 | 20 | 52 | 100 | 5,500                 | 8,000  | 185       |
| SSB-310    | 310 | 560 | 470 | 230 | 5 | 500 | 200H7 | 160H7 | 190H8 | 20 | 52 | 100 | 5,500                 | 8,000  | 230       |

## Face Plate



Mount by fitting inner dia. of the spindle.



Mount by fitting outer dia. of the spindle.  
For RN-100 only

|                                           | A<br>Face plate diameter | B  | C       | D | E                     | F    | G                             | H  | I                            |
|-------------------------------------------|--------------------------|----|---------|---|-----------------------|------|-------------------------------|----|------------------------------|
| RN-100                                    | φ 135                    | 25 | φ 50H7  | 5 | (φ 50 through T-slot) | 10H8 | 16 <sup>+2</sup> <sub>0</sub> | 17 | 7 <sup>+1</sup> <sub>0</sub> |
| TBS-130<br>TWA-100/130<br>TWM-100         | φ 135                    | 25 | φ 40H7  | 5 | φ 70                  | 12H8 | 19 <sup>+2</sup> <sub>0</sub> | 19 | 8 <sup>+1</sup> <sub>0</sub> |
| RBS/RBH-160<br>RWA/RWE/RWH-160<br>RWM-160 | φ 160                    | 30 | φ 50H7  | 3 | φ 80                  | 12H8 | 19 <sup>+2</sup> <sub>0</sub> | 19 | 8 <sup>+1</sup> <sub>0</sub> |
| TBS-160<br>TWA-160<br>TWM-160             | φ 200                    | 30 | φ 50H7  | 3 | φ 80                  | 12H8 | 19 <sup>+2</sup> <sub>0</sub> | 19 | 8 <sup>+1</sup> <sub>0</sub> |
| RWA/RWE/RWH-200<br>RWM-200                | φ 200                    | 30 | φ 60H7  | 3 | φ 90                  | 12H8 | 19 <sup>+2</sup> <sub>0</sub> | 19 | 8 <sup>+1</sup> <sub>0</sub> |
| TWA-200                                   | φ 250                    | 30 | φ 60H7  | 3 | φ 90                  | 12H8 | 19 <sup>+2</sup> <sub>0</sub> | 19 | 8 <sup>+1</sup> <sub>0</sub> |
| RBS/RBH-250<br>RWA/RWH-250<br>RWM-250     | φ 250                    | 30 | φ 75H7  | 5 | φ 110                 | 12H8 | 19 <sup>+2</sup> <sub>0</sub> | 19 | 8 <sup>+1</sup> <sub>0</sub> |
| TBS-250<br>TWM-250                        |                          |    |         |   |                       |      |                               |    |                              |
| RBS/RBH-320<br>RWA/RWH-320<br>RWM-320     | φ 320                    | 40 | φ 110H7 | 5 | φ 180                 | 14H8 | 23 <sup>+2</sup> <sub>0</sub> | 23 | 9 <sup>+2</sup> <sub>0</sub> |

### Example



\* Only face plate for RN-100 is mounted by fitting outer diameter of the spindle.  
\* TSUDAKOMA recommends the face plate to fit inner diameter of the spindle.  
TWA-160/TBS-160 also has a face plate for fitting outer diameter of the spindle, so please check the face plate of your existing machine when purchasing a repeat unit.

RBS

RBH

Multi-Spindle  
RBM

TBS

RWE/RWA  
RN

RWH

RWA-B  
RNCV-B

RWB

RWB-K  
RNCK

RCB

RCH  
RNC

RCV

Multi-Spindle  
RWM

TWA/TN

TWB  
TTNC

Multi-Spindle  
TWM

RDS

RTV  
RTT

TDS  
TDB

NC Controllers

Accessories

Options

Technical  
Information