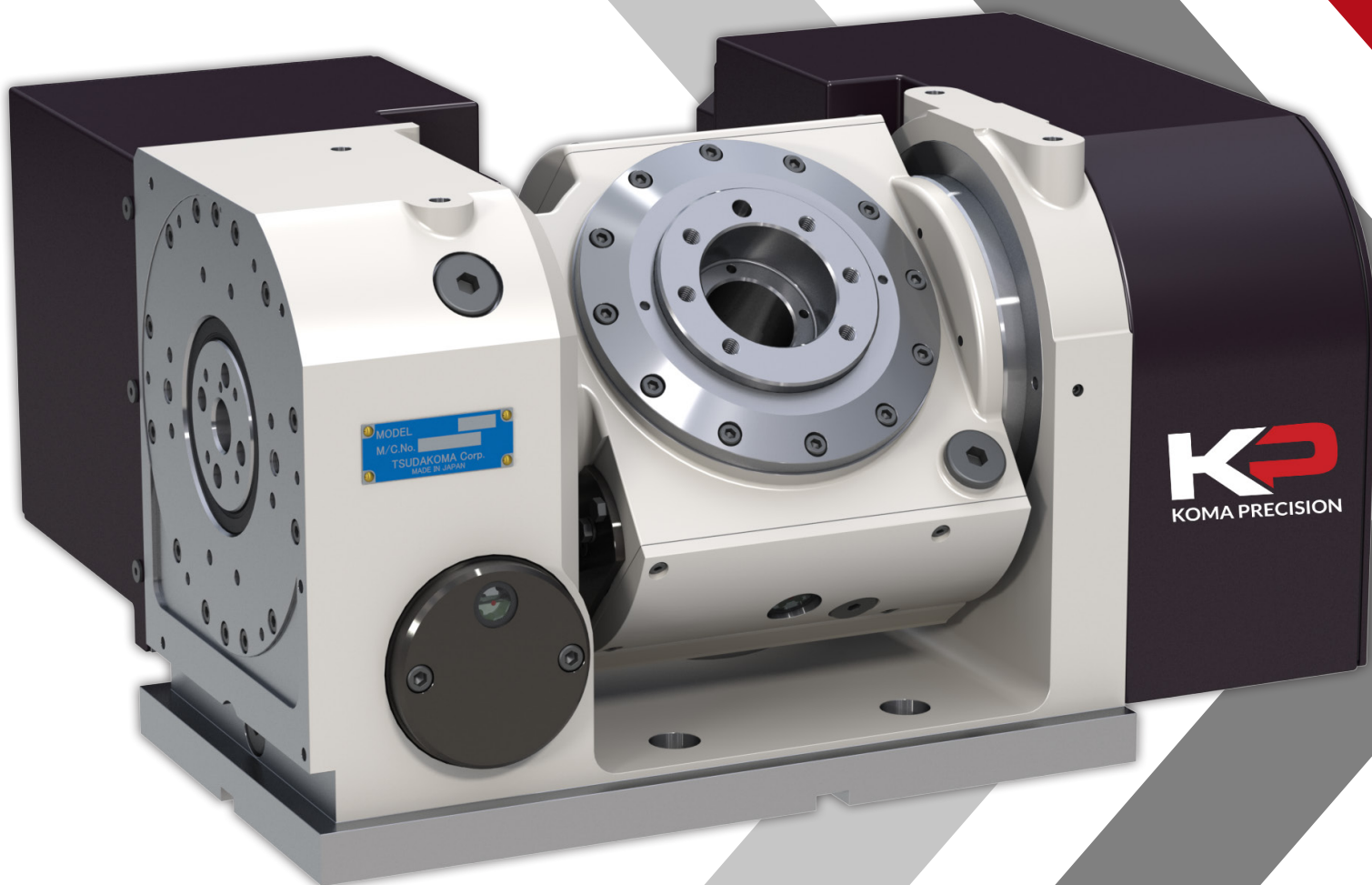




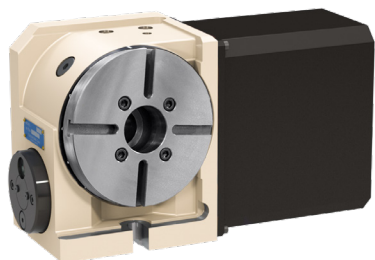
**FANUC**  
**ROBODRILL**



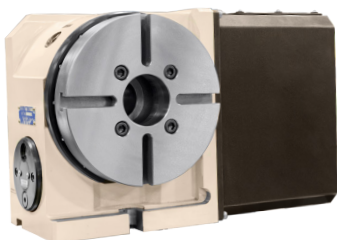
# TSUDAKOMA

## Rotary Table

### Selection Guide



**RWE-SERIES**



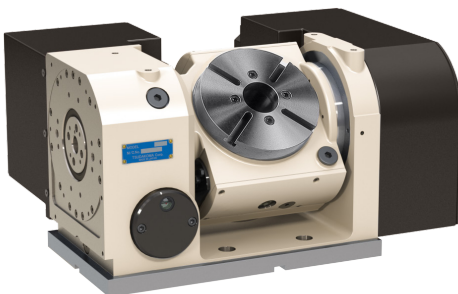
**RWA-SERIES**



**RBS-SERIES**



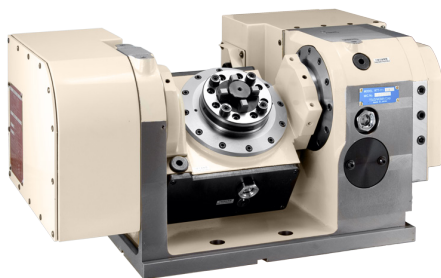
**RN-MULTI SERIES  
(SHOWN WITH 5C COLLETS)**



**TWA-SERIES**



**TBS-SERIES**



**5<sup>TH</sup> AXIS TILTING SERIES  
RTT-111, CA**

# ROTARY TABLES



| $\alpha$ -D14SiA5 / $\alpha$ -D21SiA5 |             |              |              |              |
|---------------------------------------|-------------|--------------|--------------|--------------|
| <b>RWE SERIES</b>                     | RWE-160 R,L |              |              |              |
| <b>RWA SERIES</b>                     | RWA-160 R,L |              |              |              |
| <b>RBS SERIES</b>                     | RBS-160     |              |              |              |
| <b>RN MULTI SERIES</b>                | RN-100 R,L  | RN-100-2 R,L |              |              |
| <b>TWA SERIES</b>                     | TWA-130     |              |              |              |
| <b>TBS SERIES</b>                     | TBS-130     |              |              |              |
| <b>5<sup>TH</sup> AXIS TILTING</b>    | RTT-111, CA |              |              |              |
| $\alpha$ -D14MiA5 / $\alpha$ -D21MiA5 |             |              |              |              |
| <b>RWE SERIES</b>                     | RWE-160 R,L | RWE-200 R,L  |              |              |
| <b>RWA SERIES</b>                     | RWA-160 R,L | RWA-200 R,L  |              |              |
| <b>RBS SERIES</b>                     | RBS-160     |              |              |              |
| <b>RN MULTI SERIES</b>                | RN-100 R,L  | RN-100-2 R,L | RN-100-3 R,L |              |
| <b>TWA SERIES</b>                     | TWA-130     |              |              |              |
| <b>TBS SERIES</b>                     | TBS-130     |              |              |              |
| <b>5<sup>TH</sup> AXIS TILTING</b>    | RTT-111, CA |              |              |              |
| $\alpha$ -D14LiA5 / $\alpha$ -D21LiA5 |             |              |              |              |
| <b>RWE SERIES</b>                     | RWE-160 R,L | RWE-200 R,L  |              |              |
| <b>RWA SERIES</b>                     | RWA-160 R,L | RWA-200 R,L  |              |              |
| <b>RBS SERIES</b>                     | RBS-160     |              |              |              |
| <b>RN MULTI SERIES</b>                | RN-100 R,L  | RN-100-2 R,L | RN-100-3 R,L | RN-100-4 R,L |
| <b>TWA SERIES</b>                     | TWA-130     | TWA-160      |              |              |
| <b>TBS SERIES</b>                     | TBS-130     | TBS-160      |              |              |
| <b>5<sup>TH</sup> AXIS TILTING</b>    | RTT-111, CA |              |              |              |



$\alpha$ -D14SiA5 /  $\alpha$ -D21SiA5



$\alpha$ -D14MiA5 /  $\alpha$ -D21MiA5

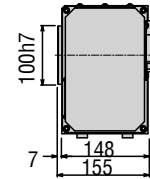
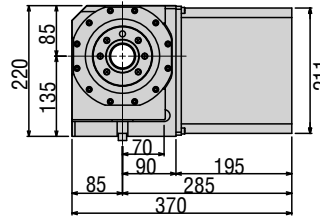
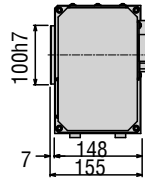
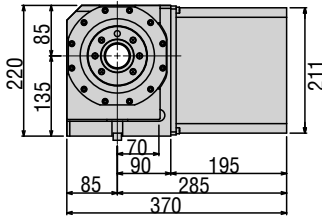


$\alpha$ -D14LiA5 /  $\alpha$ -D21LiA5

## RWE, RWA,RBS-Series & RN-100R-2,3,4 ROTARY TABLES

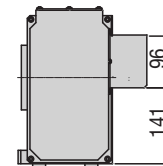
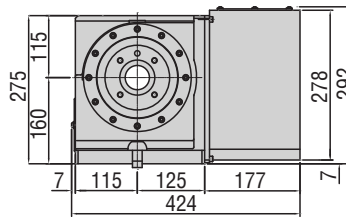
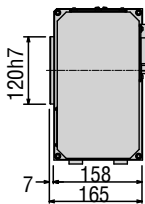
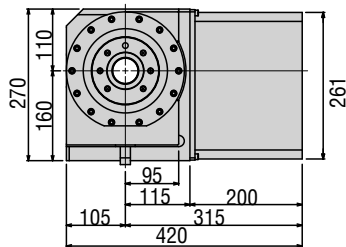
(Drawings Not To Scale)

**RWA-160**



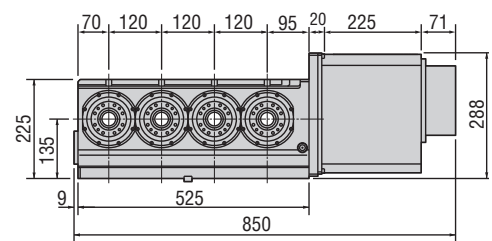
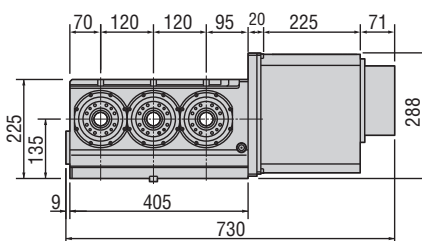
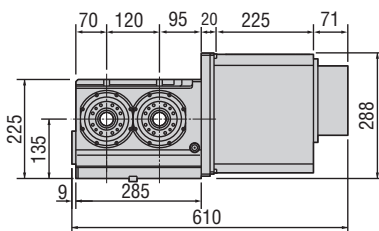
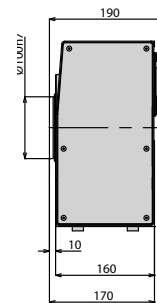
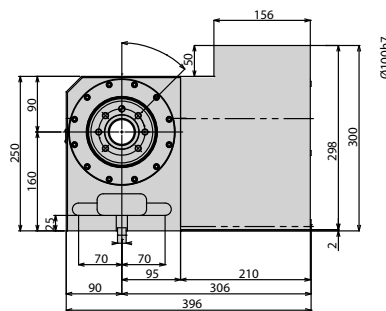
**RWE-160**

**RWA-200**



**RWE-200**

**RBS-160**



**RN-100R-2,3,4**

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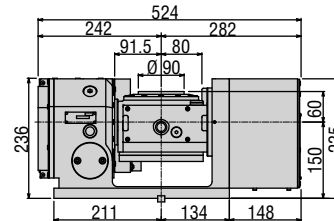
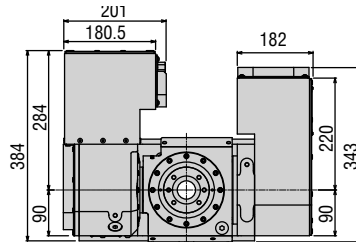
# ROTARY TABLE DIMENSIONS



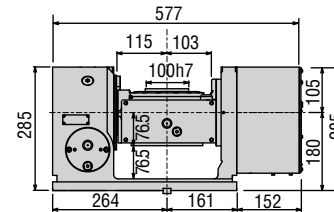
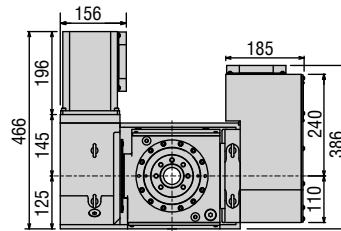
## TWA, TBS-Series & RTT-111, CA ROTARY TABLES

(Drawings Not To Scale)

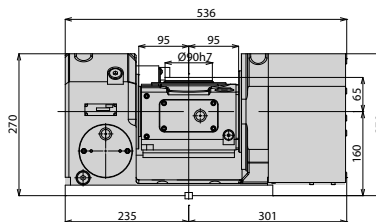
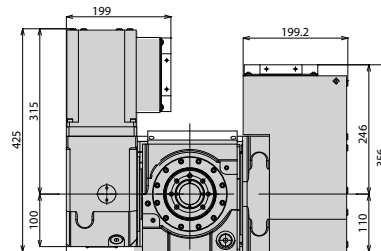
**TWA-130**



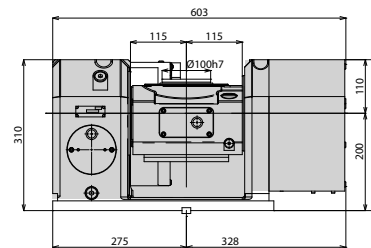
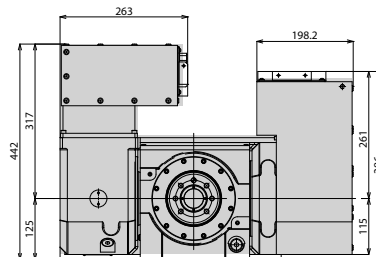
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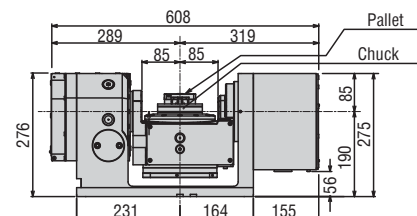
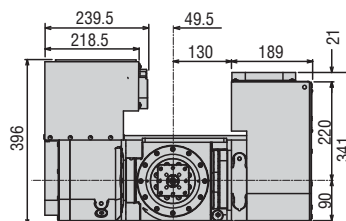
**TBS-130**



**TBS-160**



**RTT-111 CA**



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## RN-Multi, RWA, RWE & RBS-Series Rotary Tables

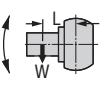
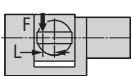
| Table Model                          |                                                                                                             | RN-100                | RN-100-2,3,4          |     |      | RWA-160                  | RWA-200                  | RWE-160                  | RWE-200                  | RBS-160                  |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----|------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Versions available                   |                                                                                                             | R, L                  | R, L                  |     |      | R, L                     | R, L                     | R, L                     | R, L                     | R, L                     |
| Spindle outer diameter               |                                                                                                             | 80h7                  | 80h7                  |     |      | 100h7                    | 120h7                    | 100h7                    | 120h7                    | 100h7                    |
| Table diameter (optional)            |                                                                                                             | (135)                 | (115)                 |     |      | (160, 200)               | (200, 250)               | (160, 200)               | (200, 250)               | (160, 200)               |
| Center height                        |                                                                                                             | 110                   | 135                   |     |      | 135                      | 160                      | 135                      | 160                      | 160                      |
| Center bore                          | Nose Diameter                                                                                               | 50H7                  | 50H7                  |     |      | 55H7                     | 65H7                     | 55H7                     | 65H7                     | 55H7                     |
|                                      | Thru Diameter                                                                                               | 30                    | 30                    |     |      | 40                       | 45                       | 40                       | 45                       | 40                       |
| Table T-slot width (with face plate) |                                                                                                             | (10H8)                | -                     |     |      | (12H8)                   | (12H8)                   | (12H8)                   | (12H8)                   | 12H8                     |
| Minimum spindle center distance      |                                                                                                             | -                     | 120                   |     |      | -                        | -                        | -                        | -                        | -                        |
| Guide block width                    |                                                                                                             | 14h7                  | 18h7                  |     |      | 14h7                     | 18h7                     | 14h7                     | 18h7                     | 14h7                     |
| Servo motor (Fanuc)*                 |                                                                                                             | Alpha 2i              | Alpha 4i              |     |      | Alpha 2i                 | Alpha 4i                 | Alpha 2i                 | Alpha 4i                 | Alpha 4i                 |
| Maximum motor speed                  | rpm                                                                                                         | 5,000                 | 5,000                 |     |      | 5,000                    | 5,000                    | 5,000                    | 5,000                    | 5,000                    |
| Speed reduction ratio                |                                                                                                             | 1/36                  | 1/36                  |     |      | 1/72                     | 1/72                     | 1/72                     | 1/72                     | 1/36                     |
| Number of spindles                   |                                                                                                             | -                     | 2                     | 3   | 4    | -                        | -                        | -                        | -                        | --                       |
| Maximum table speed                  | rpm                                                                                                         | 83.3@ 3,000           | 138.8                 |     |      | 69.4                     | 69.4                     | 69.4                     | 69.4                     | 138.9                    |
| Inertia converted into motor shaft   | x 10 <sup>-3</sup> kg·m <sup>2</sup>                                                                        | .23                   | .64                   | .92 | 1.06 | .09                      | .17                      | -                        | -                        | 0.19                     |
| Clamp system                         |                                                                                                             | Pneumatic             |                       |     |      | Pneumatic Dual Taper     |                          | Pneumatic Disc Clamp     | Pneumatic Disc Clamp     | Pneumatic                |
| Clamp torque @72psi                  | Nm (ft. lbs.)                                                                                               | 80 (59)               | 80 (59)               |     |      | 500 (369)                | 800 (590)                | 250 (180)                | 400 (295)                | 700 (516)                |
| Indexing accuracy                    | arc sec.                                                                                                    | ±22.5                 | ±30                   |     |      | ±12.5                    | ±10                      | ±12.5                    | ±10                      | ±7.5                     |
| Net Weight                           | kg (lbs.)                                                                                                   | 28 (62)               | 70-110(154-242)       |     |      | 38 (84)                  | 61 (134)                 | 40 (88)                  | 61 (135)                 | 55 (121.2)               |
| Allowable wheel torque               | Nm (ft. lbs.)                                                                                               | 176 (130)             | 176 (130)             |     |      | 206 (152)                | 288 (212)                | 206 (152)                | 288 (212)                | --                       |
| Allowable work inertia               | kg·m <sup>2</sup>                                                                                           | .10                   | .10                   |     |      | .64                      | 1.25                     | .64                      | 1.25                     | .48                      |
| Allowable work weight                |  kg (lbs) [w/ tailstock] | 25 (55)<br>[50 (110)] | 25 (55)<br>[50 (110)] |     |      | 100 (220)<br>[175 (385)] | 125 (275)<br>[250 (550)] | 100 (220)<br>[200 (441)] | 125 (275)<br>[250 (551)] | 100 (200)<br>[200 (440)] |
|                                      |  kg (lbs)                | 50 (110)              | 50 (110)              |     |      | 200 (440)                | 250 (550)                | -                        | -                        | 200 (440)                |
| Allowable load when table clamped    |  N (lbf)                 | 5,880 (1,317)         | 5,880 (1,317)         |     |      | 10,800 (2,419)           | 14,400 (3,226)           | 10,800 (2,419)           | 14,400 (3,226)           | 10,800 (2,419)           |
|                                      |  Nm (ft. lbs.)           | 80 (59)               | 80 (59)               |     |      | 500 (369)                | 800 (590)                | 500 (369)                | 800 (590)                | 500 (369)                |
|                                      |  Nm (ft. lbs.)           | 156 (115)             | 156 (115)             |     |      | 780 (575)                | 1,900 (1,400)            | 780 (575)                | 1,900 (1,400)            | 780 (575)                |

\* Other motors & RPM available • Dimensions = mm • Specifications subject to change without notice

# ROTARY TABLE SPECIFICATIONS



## TWA, TBS-Series & RTT-111, CA Rotary Tables

| Model                              |                                                                                                         | TWA-130               |             | TWA-160               |             | TBS-130               |             | TBS-160               |           | RTT-111, CA          |           |
|------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------|-----------------------|-----------|----------------------|-----------|
| Tilt Range                         |                                                                                                         | -17° ~ +107°          |             | -30° ~ +110°          |             | -30° ~ +110°          |             | -30° ~ +110°          |           | -17° ~ +107°         |           |
| Spindle outer diameter             |                                                                                                         | 90h7                  |             | 100h7                 |             | 90h7                  |             | 100h7                 |           |                      |           |
| Table diameter (optional)          |                                                                                                         | (135)                 |             | 160 (200)             |             | (135)                 |             | (160 or 200)          |           |                      |           |
| Table height at 0° position        |                                                                                                         | 210 (235 w/faceplate) |             | 235 (260 w/faceplate) |             | 225 (250 w/faceplate) |             | 270 (300 w/faceplate) |           | 190                  |           |
| Center height at 90° position      |                                                                                                         | 150                   |             | 180                   |             | 160                   |             | 200                   |           | 190                  |           |
| Center bore                        | Nose Diameter (w/face plate)                                                                            | 55H7 (40H7)           |             | 55H7 (50H7)           |             | 55H7 (40H7)           |             | 55H7 (50H7)           |           | --                   |           |
|                                    | Thru Diameter                                                                                           | 35                    |             | 40                    |             | 40                    |             | 40                    |           | --                   |           |
| Table T-slot width                 |                                                                                                         | 12H8 (w/faceplate)    |             | 12H8 (w/faceplate)    |             | 12H8                  |             | 12H8                  |           | --                   |           |
| Guide block width                  |                                                                                                         | 14h7                  |             | 18h7                  |             | 14h7                  |             | 18h7                  |           | 14H7                 |           |
| Servo motor (Fanuc)*               |                                                                                                         | Rotary                | Tilt        | Rotary                | Tilt        | Rotary                | Tilt        | Rotary                | Tilt      | Rotary               | Tilt      |
|                                    |                                                                                                         | Alpha 2i              | Alpha 2i    | Alpha 2i              | Alpha 2i    | Alpha 2i              | Alpha 2i    | Alpha 2i              | Alpha 4i  | Alpha 2i             | Alpha 2i  |
| Maximum motor speed                | rpm                                                                                                     | 5,000                 | 5,000       | 5,000                 | 5,000       | 5,000                 | 5,000       | 5,000                 | 5,000     | 5,000                | 5,000     |
| Speed reduction ratio              |                                                                                                         | 1/60                  | 1/120       | 1/72                  | 1/120       | 1/48                  | 1/60        | 1/60                  | 1/60      | 1/60                 | 1/120     |
| Maximum table speed                | rpm                                                                                                     | 83.3                  | 41.7        | 69.4                  | 41.7        | 104.2                 | 83.3        | 83.3                  | 83.3      | 83.3                 | 41.7      |
| Inertia converted into motor shaft | x 10 <sup>-3</sup> kg·m <sup>2</sup>                                                                    | .074                  | .072        | .17                   | .18         | .074                  | .072        | .17                   | .18       | .074                 | .072      |
| Clamp system                       |                                                                                                         | Pneumatic Dual Taper  |             |                       |             | Pneumatic             |             |                       |           | Pneumatic Dual Taper |           |
| Clamp torque @72psi                | Nm (ft. lbs.)                                                                                           | 500 (369)             | 500 (369)   | 500 (369)             | 800 (590)   | 700 (516)             | 700 (516)   | 700 (516)             | 700 (516) | Dual Taper           | 500 (369) |
| Indexing accuracy                  | arc sec.                                                                                                | ±20                   | -           | ±15                   | -           | ±10                   | -           | ±10                   | -         | ±20                  | -         |
| Tilting accuracy                   | arc sec.                                                                                                | -                     | ±22.5       | -                     | ±22.5       | -                     | ±17.5       | -                     | ±17.5     | -                    | ±30       |
| Net Weight                         | kg (lbs.)                                                                                               | 76 (167)              |             | 127 (279)             |             | 125 (276)             |             | 160 (353)             |           | 98(216)              |           |
| Allowable wheel torque - rotary    | Nm (ft. lbs.)                                                                                           | 152 (112)             |             | 200 (147)             |             | -                     |             | -                     |           | 152(112)             |           |
| Allowable work inertia             | kg·m <sup>2</sup>                                                                                       | .08                   |             | .19                   |             | .08                   |             | .19                   |           | .08                  |           |
| Allowable work weight              | 0° tilt angle        | kg (lbs)              | 35 (77)     | 60 (132)              | 35 (77)     | 60 (132)              | 35 (77)     | 60 (132)              | 35 (77)   | 60 (132)             | 35 (77)   |
|                                    | 0° ~ 90° tilt angle  | kg (lbs)              | 20 (44)     | 40 (88)               | 20 (44)     | 40 (88)               | 20 (44)     | 40 (88)               | 20 (44)   | 40 (88)              | 20 (44)   |
| Allowable work moment              |                      | Nm (ft. lbs.)         | 24 (17.7)   | 39.2 (28.9)           | 61.1        | 59.6                  | 57 (42)     |                       |           |                      |           |
| Allowable load when table clamped  |                      | N (lbf)               | 3,920 (878) | 7,840 (1,756)         | 3,920 (878) | 10,800                | 3,920 (878) |                       |           |                      |           |
|                                    |                      | Nm (ft. lbs.)         | 500 (369)   | 500 (369)             | 700 (516)   | 700 (516)             | 500 (369)   |                       |           |                      |           |
|                                    |                      | Nm (ft. lbs.)         | 500 (369)   | 800 (590)             | 700 (516)   | 700 (516)             | 500 (369)   |                       |           |                      |           |

\* Other motors & RPM available • Dimensions = mm • Specifications subject to change without notice



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