

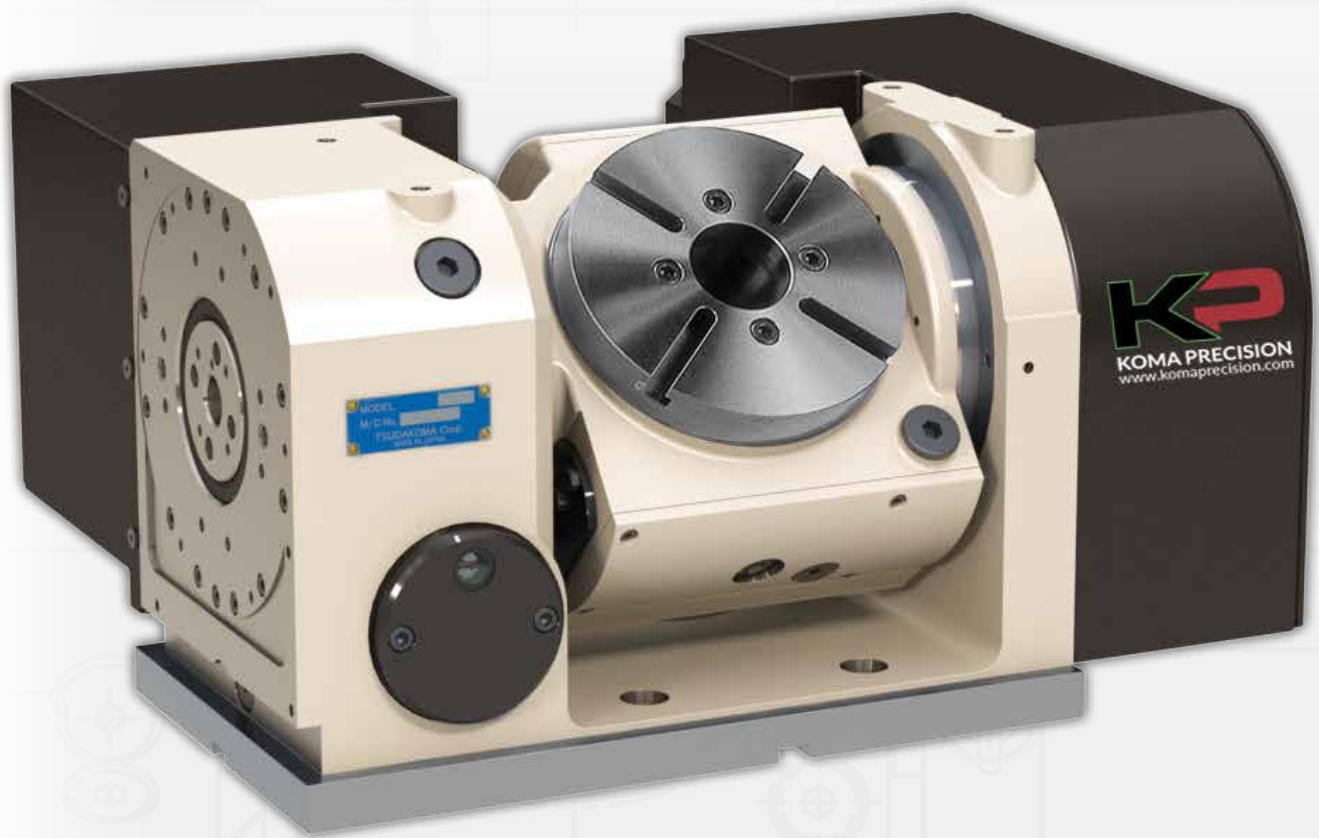


**KOMA PRECISION**  
THE KEY TO PERFORMANCE  
[www.komaprecision.com](http://www.komaprecision.com)

# TSUDAKOMA

## Rotary Table Selection Guide

2022



**WE FOCUS ON BEING THE BEST—**  
that's why leading companies choose Koma.

WE ARE THE EXCLUSIVE NORTH AMERICAN  
IMPORTER, NATIONAL DISTRIBUTOR, AND  
SERVICE CENTER FOR TSUDAKOMA ROTARY TABLES.



# KOMA PRECISION

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## ABOUT US

For over forty years Koma Precision has been the foremost source for the finest the world has to offer in machine tool Productivity Innovation.

With over 30,000 rotary table installations, Koma is the largest distributor of Tsudakoma NC rotary tables and indexers in the world. With over 12,000 angle heads and live tools installed, Koma is the world's largest supplier for Alberti - the originator and the foremost innovator of productivity tooling.



# ROTARY TABLES



RWE SERIES



RWA SERIES



RBS SERIES



RN-100R MULTI SERIES



RWB SERIES



RTT-111, GA

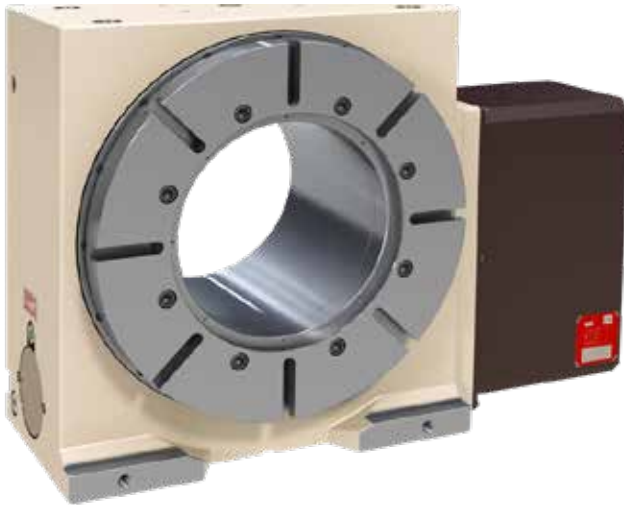


TWA SERIES



TBS SERIES

# ROTARY TABLES



RCB SERIES



RWB-K SERIES



RNCK SERIES

# GENOS SERIES

| GENOS M460-VE                |               |               |                   |                  |
|------------------------------|---------------|---------------|-------------------|------------------|
| RWE SERIES                   | RWE-160, GA   | RWE-200, GA   |                   |                  |
| RWA SERIES                   | RWA-160R, GA  | RWA-200R, GA  | RWA-250R, GA (HS) |                  |
| RBS SERIES                   | RBS-160, GA   | RBS-250, GA   |                   |                  |
| RN MULTI SERIES              | RN-100R-2, GA | RN-100R-3, GA | RN-100R-4, GA     |                  |
| TWA SERIES                   | TWA-130, GA   | TWA-160, GA   |                   |                  |
| TBS SERIES                   | TBS-130, GA   | TBS-160, GA   |                   |                  |
| 5 <sup>th</sup> AXIS TILTING | RTT-111, GA   |               |                   |                  |
| GENOS M560-V                 |               |               |                   |                  |
| RWE SERIES                   | RWE-160, GA   | RWE-200, GA   |                   |                  |
| RWA SERIES                   | RWA-160R, GA  | RWA-200R, GA  | RWA-250R, GA (HS) | RWA-320R, GA(HS) |
| RBS SERIES                   | RBS-160, GA   | RBS-250, GA   |                   |                  |
| RN MULTI SERIES              | RN-100R-2, GA | RN-100R-3, GA | RN-100R-4, GA     |                  |
| TWA SERIES                   | TWA-130, GA   | TWA-160, GA   | TWA-200, GA*      |                  |
| TBS SERIES                   | TBS-130, GA   | TBS-160, GA   |                   |                  |
| 5 <sup>th</sup> AXIS TILTING | RTT-111, GA   |               |                   |                  |
| GENOS M660-V                 |               |               |                   |                  |
| RWA SERIES                   | RWA-250       |               |                   |                  |
| RBS SERIES                   | RBS-250, GA   | RBS-320, GA   |                   |                  |
| RCB SERIES                   | RCB-350, GA   | RCB-450, GA   |                   |                  |
| RWB SERIES                   | RWB-320, GA   | RWB-400, GA   |                   |                  |
| RN MULTI SERIES              | RN-100R-2, GA | RN-100R-3, GA | RN-100R-4, GA     |                  |
| TWA SERIES                   | TWA-160, GA   | TWA-200, GA   |                   |                  |

\*COLUMN RISER RECOMMENDED



GENOS M460-VE



GENOS M560-V



GENOS M660-V



| MB-46V                       |               |               |                   |                   |
|------------------------------|---------------|---------------|-------------------|-------------------|
| RWE SERIES                   | RWE-160, GA   | RWE-200, GA   |                   |                   |
| RWA SERIES                   | RWA-160R, GA  | RWA-200R, GA  | RWA-250R, GA (HS) |                   |
| RBS SERIES                   | RBS-160, GA   | RBS-250, GA   |                   |                   |
| RN MULTI SERIES              | RN-100R-2, GA | RN-100R-3, GA | RN-100R-4, GA     |                   |
| TWA SERIES                   | TWA-130, GA   | TWA-160, GA   |                   |                   |
| TBS SERIES                   | TBS-130, GA   | TBS-160, GA   |                   |                   |
| 5 <sup>th</sup> AXIS TILTING | RTT-111, GA   |               |                   |                   |
| MB-56V                       |               |               |                   |                   |
| RWE SERIES                   | RWE-160, GA   | RWE-200, GA   |                   |                   |
| RWA SERIES                   | RWA-160R, GA  | RWA-200R, GA  | RWA-250R, GA(HS)  | RWA-320R, GA (HS) |
| RBS SERIES                   | RBS-160, GA   | RBS-250, GA   |                   |                   |
| RN MULTI SERIES              | RN-100R-2, GA | RN-100R-3, GA | RN-100R-4, GA     |                   |
| TWA SERIES                   | TWA-130, GA   | TWA-160, GA   | TWA-200, GA       | TN-320, GA        |
| TBS SERIES                   | TBS-130, GA   | TBS-160, GA   |                   |                   |
| 5 <sup>th</sup> AXIS TILTING | RTT-111, GA   |               |                   |                   |
| MB-66V                       |               |               |                   |                   |
| RWA SERIES                   | RWA-250       |               |                   |                   |
| RBS SERIES                   | RBS-250, GA   | RBS-320, GA   |                   |                   |
| RCB SERIES                   | RCB-350, GA   | RCB-450, GA   |                   |                   |
| RWB SERIES                   | RWB-320, GA   | RWB-400, GA   |                   |                   |
| RN MULTI SERIES              | RN-100R-2, GA | RN-100R-3, GA | RN-100R-4, GA     |                   |
| TWA SERIES                   | TWA-200, GA   | TN-320, GA    |                   |                   |



**MB-56V**



**MB-66V**

# MF & MA SERIES

| MF-46V                       |                   |                  |                   |                   |
|------------------------------|-------------------|------------------|-------------------|-------------------|
| RWE SERIES                   | RWE-160, GA       | RWE-200, GA      |                   |                   |
| RWA SERIES                   | RWA-160R, GA      | RWA-200R, GA     | RWA-250R, GA (HS) |                   |
| RBS SERIES                   | RBS-160, GA       | RBS-250, GA      |                   |                   |
| RN MULTI SERIES              | RN-100R-2, GA     | RN-100R-3, GA    | RN-100R-4, GA     |                   |
| TWA SERIES                   | TWA-130, GA       | TWA-160, GA      |                   |                   |
| TBS SERIES                   | TBS-130, GA       | TBS-160, GA      |                   |                   |
| 5 <sup>th</sup> AXIS TILTING | RTT-111, GA       |                  |                   |                   |
| MA-550V                      |                   |                  |                   |                   |
| RWE SERIES                   | RWE-160, GA       | RWE-200, GA      |                   |                   |
| RWA SERIES                   | RWA-160R, GA      | RWA-200R, GA     | RWA-250R, GA (HS) | RWA-320R, GA (HS) |
| RBS SERIES                   | RBS-160, GA       | RBS-250, GA      | RBS-320, GA       |                   |
| RN MULTI SERIES              | RN-100R-2, GA     | RN-100R-3, GA    | RN-100R-4, GA     |                   |
| RWB SERIES                   | RWB-250R, GA      | RWB-250R, GA HS  | RWB-320R, GA      | RWB-320R, GA HS   |
| TWA SERIES                   | TWA-130, GA       | TWA-160, GA      | TWA-200, GA       |                   |
| TWA SERIES                   | TWA-130, GA       | TWA-160, GA      |                   |                   |
| 5 <sup>th</sup> AXIS TILTING | RTT-111, GA       |                  |                   |                   |
| MA-650V                      |                   |                  |                   |                   |
| RWE SERIES                   | RWE-160, GA       | RWE-200, GA      |                   |                   |
| RWA SERIES                   | RWA-160R, GA      | RWA-200R, GA     | RWA-250R, GA (HS) | RWA-320R, GA (HS) |
| RBS SERIES                   | RBS-160, GA       | RBS-250, GA      | RBS-320, GA       |                   |
| RN MULTI SERIES              | RN-100R-2, GA     | RN-100R-3, GA    | RN-100R-4, GA     |                   |
| RWB SERIES                   | RWB-250R, GA (HS) | RWB-320R, GA(HS) | RWB-400R, GA      |                   |
| TWA SERIES                   | TWA-130, GA       | TWA-160, GA      | TWA-200, GA       | TN-320, GA        |
| TBS SERIES                   | TBS-130, GA       | TBS-160, GA      |                   |                   |
| 5 <sup>th</sup> AXIS TILTING | RTT-111, GA       |                  |                   |                   |



**MF-46V**



**MA-650V**

# MILLAC SERIES

| MILLIAC 44V II               |                   |                   |               |                 |
|------------------------------|-------------------|-------------------|---------------|-----------------|
| RWE SERIES                   | RWE-160, GA       | RWE-200, GA       |               |                 |
| RWA SERIES                   | RWA-160R, GA      | RWA-200R, GA      |               |                 |
| RBS SERIES                   | RBS-160, GA       | RBS-250, GA       |               |                 |
| RN MULTI SERIES              | RN-100R-2, GA     | RN-100R-3, GA     |               |                 |
| TWA SERIES                   | TWA-130, GA       | TWA-160, GA       |               |                 |
| TBS SERIES                   | TBS-130, GA       | TBS-160, GA       |               |                 |
| 5 <sup>th</sup> AXIS TILTING | RTT-111, GA       |                   |               |                 |
| MILLAC 561V II               |                   |                   |               |                 |
| RWE SERIES                   | RWE-200, GA       |                   |               |                 |
| RWA SERIES                   | RWA-200R, GA      | RWA-250R, GA (HS) |               |                 |
| RBS SERIES                   | RBS-250, GA       | RBS-320, GA       |               |                 |
| RN MULTI SERIES              | RN-100R-2, GA     | RN-100R-3, GA     |               |                 |
| RWB SERIES                   | RWB-250R, GA (HS) | RWB-320R, GA (HS) |               |                 |
| TWA SERIES                   | TWA-200, GA       | TN-320, GA        |               |                 |
| MILLAC 761V II               |                   |                   |               |                 |
| RWE SERIES                   | RWE-200, GA       |                   |               |                 |
| RWA SERIES                   | RWA-200R, GA      | RWA-250R, GA (HS) | RWA-320R, GA  |                 |
| RBS SERIES                   | RBS-250, GA       | RBS-320, GA       |               |                 |
| RN MULTI SERIES              | RN-100R-2, GA     | RN-100R-3, GA     | RN-100R-4, GA |                 |
| RWB SERIES                   | RWB-250R, GA (HS) | RWB-320R, GA (HS) | RWB-400R, GA  |                 |
| TWA SERIES                   | TWA-200, GA       | TN-320, GA        |               |                 |
| MILLAC 852V II               |                   |                   |               |                 |
| RWA SERIES                   | RWA-250R, GA (HS) | RWA-320R, GA(HS)  |               |                 |
| RBS SERIES                   | RBS-250, GA       | RBS-320, GA       |               |                 |
| RN MULTI SERIES              | RN-100R-2, GA     | RN-100R-3, GA     | RN-100R-4, GA |                 |
| RWB SERIES                   | RWB-250R, GA      | RWB-250R, GA HS   | RWB-320R, GA  | RWB-320R, GA HS |
| TWA SERIES                   | TWA-200, GA       | TN-320, GA        |               |                 |
| MILLAC 1052V II              |                   |                   |               |                 |
| RWA SERIES                   | RWA-320R, GA (HS) |                   |               |                 |
| RBS SERIES                   | RBS-320, GA       |                   |               |                 |
| RN MULTI SERIES              | RN-100R-2, GA     | RN-100R-3, GA     | RN-100R-4, GA |                 |
| RWB SERIES                   | RWB-320R, GA (HS) | RWB-400R, GA      | RWB-500R, GA  |                 |
| TWA SERIES                   | TWA-200, GA       | TN-320, GA        |               |                 |



# MA-H SERIES

| MA-500HII           |                                 |                                 |              |              |
|---------------------|---------------------------------|---------------------------------|--------------|--------------|
| <b>RWB-K SERIES</b> | RWB-250K, GA<br>RWB-250K, GA HS | RWB-320K, GA<br>RWB-320K, GA HS | RWB-400K, GA |              |
| MA-600HII           |                                 |                                 |              |              |
| <b>RWB-K SERIES</b> | RWB-250K, GA<br>RWB-250K, GA HS | RWB-320K, GA<br>RWB-320K, GA HS | RWB-400K, GA | RWB-500K, GA |
| MA-12500H           |                                 |                                 |              |              |
| PLEASE CALL         |                                 |                                 |              |              |



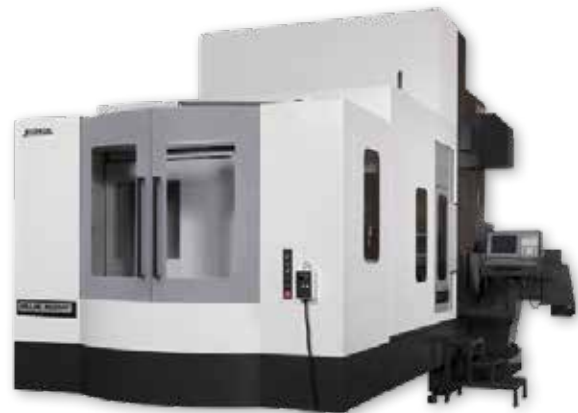
MA-600HII

# MB - H & MILLAC - H SERIES

|               |                                 |                                 |              |  |
|---------------|---------------------------------|---------------------------------|--------------|--|
| MB-4000H      |                                 |                                 |              |  |
| RWB-K SERIES  | RWB-250K, GA<br>RWB-250K, GA HS | RWB-320K, GA<br>RWB-320K, GA HS |              |  |
| MB-5000H      |                                 |                                 |              |  |
| RWB-K SERIES  | RWB-250K, GA<br>RWB-250K, GA HS | RWB-320K, GA<br>RWB-320K, GA HS | RWB-400K, GA |  |
| MB-8000H      |                                 |                                 |              |  |
| RNCK SERIES   | RNCK-631, GA                    |                                 |              |  |
| MA-12500H     |                                 |                                 |              |  |
| PLEASE CALL   |                                 |                                 |              |  |
| MILLAC 800VH  |                                 |                                 |              |  |
| RWB-K SERIES  | RWB-250K, GA                    |                                 |              |  |
| RNCK SERIES   | RNCK-631, GA                    |                                 |              |  |
| MILLAC 1000VH |                                 |                                 |              |  |
| RNCK SERIES   | RNCK-631, GA                    |                                 |              |  |
| RCV-K SERIES  | RCV-800K, GA                    |                                 |              |  |



MB-4000H



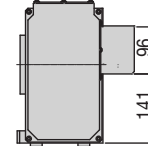
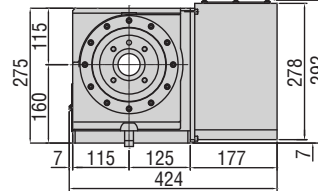
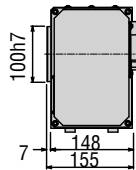
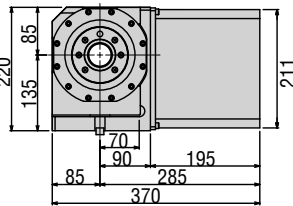
Millac 1000VH

# ROTARY TABLE DIMENSIONS

## RWE, RWA & RN-Multi Series

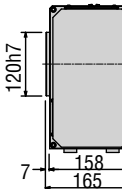
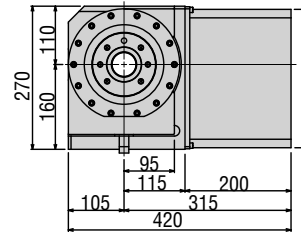
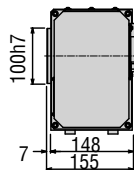
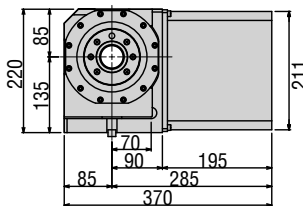
(Drawings Not To Scale)

RWE-160R, GA



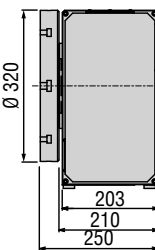
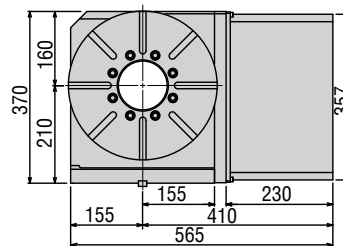
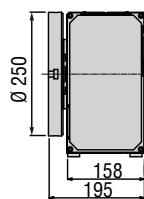
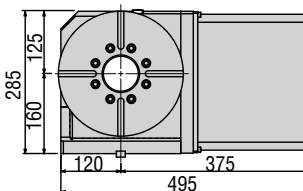
RWE-200R, GA

RWA-160R, GA

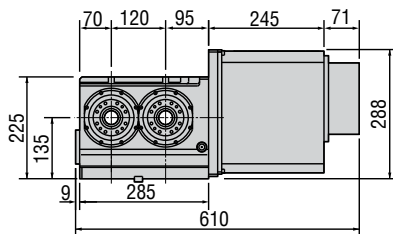


RWA-200R, GA

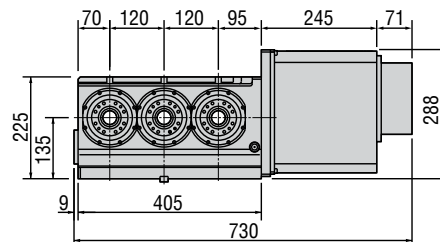
RWA-250R, GA



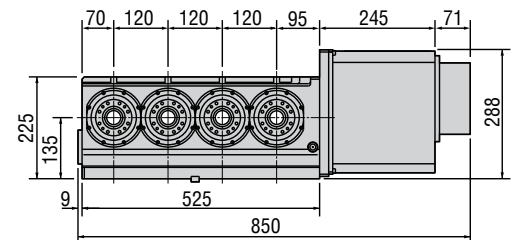
RWA-320R, GA



RN-100R-2, GA



RN-100R-3, GA



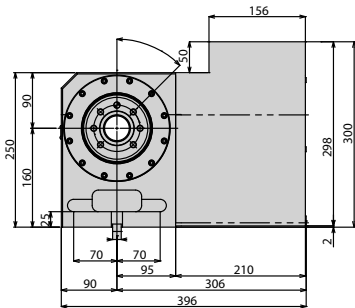
RN-100R-4, GA

Please contact Koma Precision to confirm Okuma / Tsudakoma Rotary Table working envelope.

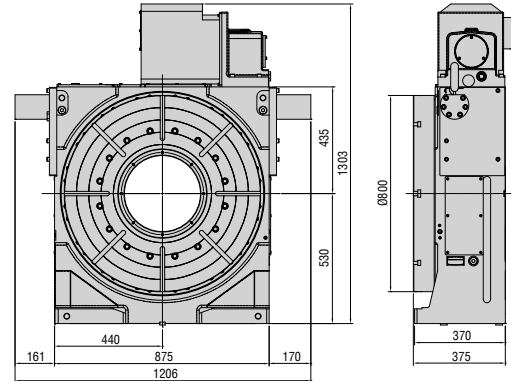
## RBS, RCV, RNCK & RTT-Series ROTARY TABLES

(Drawings Not To Scale)

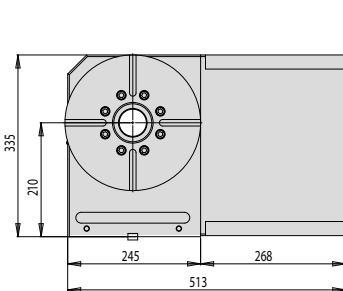
RBS-160, GA



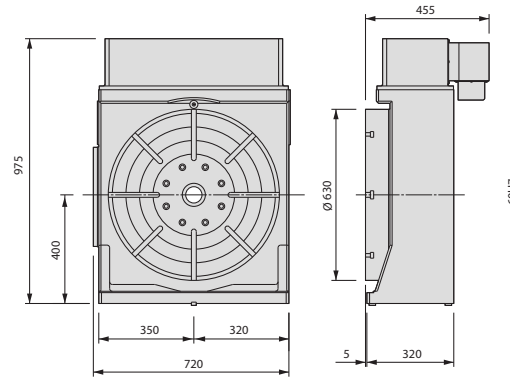
RCV-800K, GA



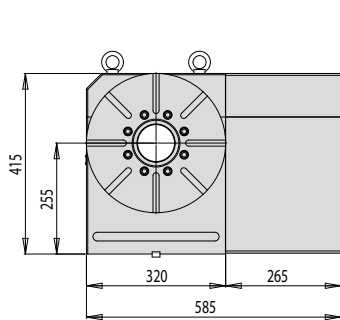
RBS-250, GA



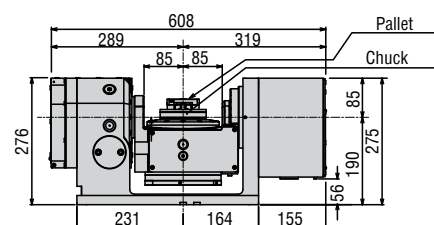
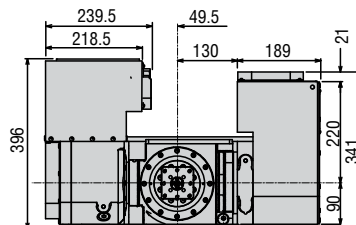
RNCK-631, GA



RBS-320, GA



RTT-111, GA



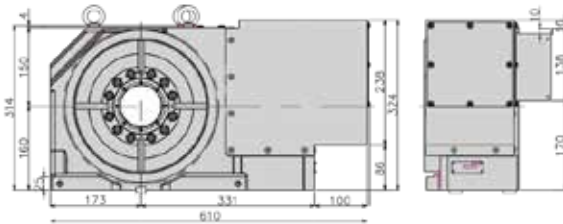
Please contact Koma Precision to confirm Okuma / Tsudakoma Rotary Table working envelope.

# ROTARY TABLE DIMENSIONS

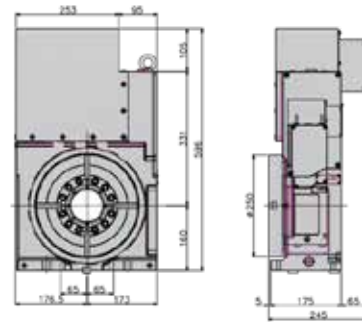
## RWB & RWB,K-Series ROTARY TABLES

(Drawings Not To Scale)

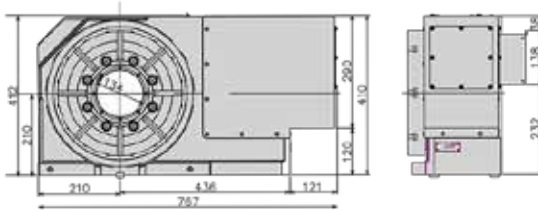
RWB-250R, GA



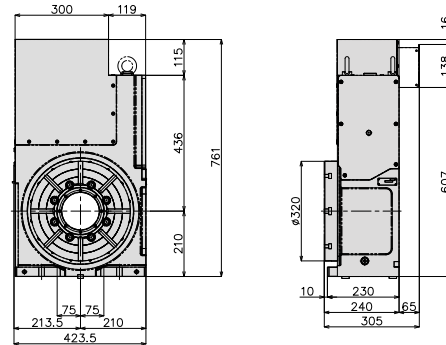
RWB-250K, GA



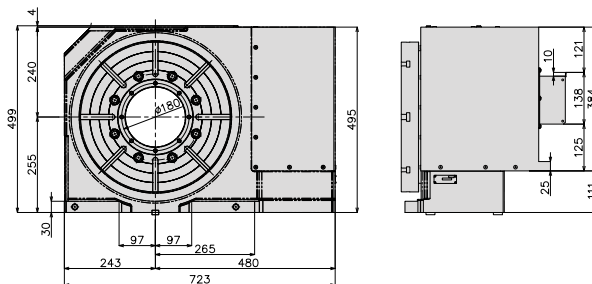
RWB-320R, GA



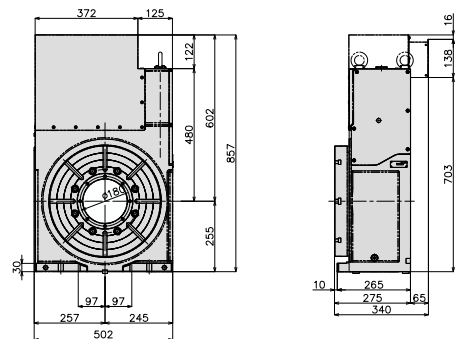
RWB-320K, GA



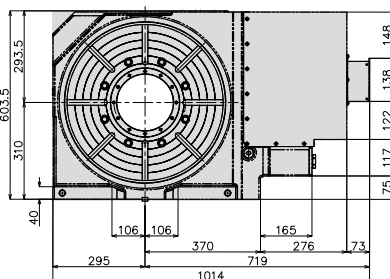
RWB-400R, GA



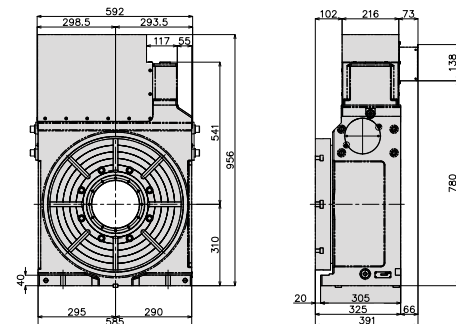
RWB-400K, GA



RWB-500R, GA



RWB-500K, GA

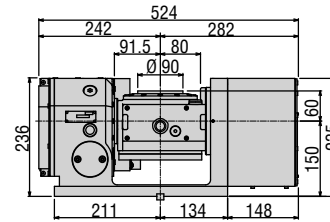
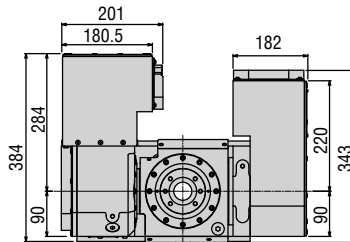


Please contact Koma Precision to confirm Okuma / Tsudakoma Rotary table working envelope.

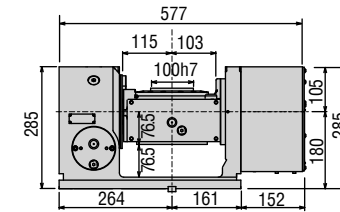
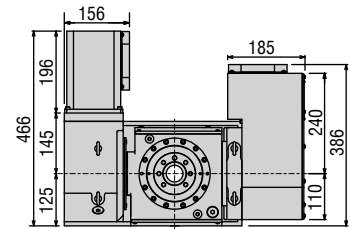
## TWA, TN & TBS-Series ROTARY TABLES

(Drawings Not To Scale)

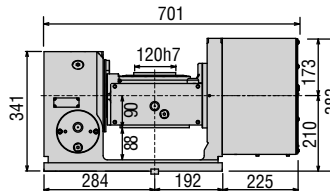
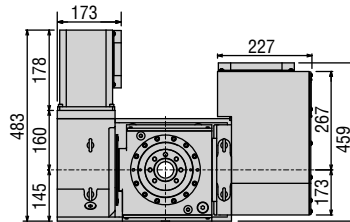
TWA-130, GA



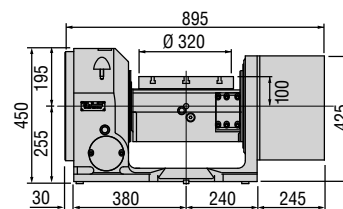
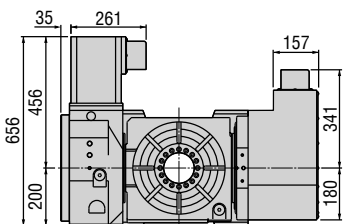
TWA-160, GA



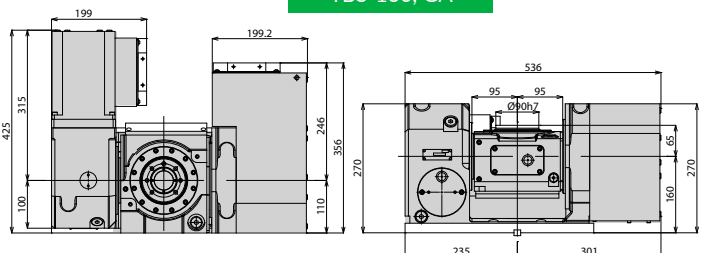
TWA-200, GA



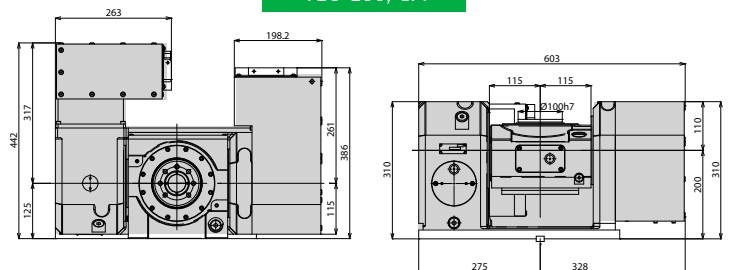
TN-320, GA



TBS-130, GA



TBS-160, GA



Please contact Koma Precision to confirm Okuma / Tsudakoma Rotary Table working envelope.



# ROTARY TABLE SPECIFICATIONS

## RN-Multi/RWE/RBS-Series Rotary Tables

| Table Model                          |                                                                                                                | RN-100-2,3,4          |     |      | RWE-160, GA              | RWE-200, GA              | RBS-160, GA              | RBS-250, GA              | RBS-320, GA              |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------|-----|------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Versions available                   |                                                                                                                | R, L                  |     |      | R, L                     | R, L                     | R                        | R                        | R                        |
| Spindle outer diameter               |                                                                                                                | 80h7                  |     |      | 100h7                    | 120h7                    | 100h7                    | 140h7                    | 180h7                    |
| Table diameter (optional)            |                                                                                                                | (115)                 |     |      | (160, 200)               | (200, 250)               | (160, 200)               | 250                      | 320                      |
| Center height                        |                                                                                                                | 135                   |     |      | 135                      | 160                      | 160                      | 210                      | 255                      |
| Center bore                          | Nose Diameter                                                                                                  | 50H7                  |     |      | 55H7                     | 65H7                     | 55H7                     | 80H7                     | 115H7                    |
|                                      | Thru Diameter                                                                                                  | 30                    |     |      | 40                       | 45                       | 40                       | 50                       | 85                       |
| Table T-slot width (with face plate) |                                                                                                                | -                     |     |      | (12H8)                   | (12H8)                   | 12H8                     | 12H8                     | 14H8                     |
| Minimum spindle center distance      |                                                                                                                | 120                   |     |      | -                        | -                        | -                        | -                        | -                        |
| Guide block width                    |                                                                                                                | 18h7                  |     |      | 14h7                     | 18h7                     | 14h7                     | 18h7                     | 18h7                     |
| Servo motor (Okuma)*                 |                                                                                                                | BL-MC50M-30T          |     |      | BL-ME24M-50SN            | BL-ME40M-40TN            | BL-ME40M-40TN            | BL-ME80M-40TN            | BL-ME150M-30SN           |
| Maximum motor speed                  | rpm                                                                                                            | 2,500                 |     |      | 5,000                    | 4,000                    | 4,000                    | 4,000                    | 3,000                    |
| Speed reduction ratio                |                                                                                                                | 1/36                  |     |      | 1/72                     | 1/72                     | 1/36                     | 1/36                     | 1/36                     |
| Number of spindles                   |                                                                                                                | 2                     | 3   | 4    | -                        | -                        | -                        | -                        | -                        |
| Maximum table speed                  | rpm                                                                                                            | 69.4                  |     |      | 69.4                     | 55                       | 111                      | 111                      | 83                       |
| Inertia converted into motor shaft   | x 10 <sup>-3</sup> kg·m <sup>2</sup>                                                                           | .64                   | .92 | 1.06 | .09                      | .17                      | 0.19                     | 0.42                     | 2.24                     |
| Clamp system                         |                                                                                                                | Pneumatic             |     |      | Pneumatic Disc Clamp     |                          | Pneumatic                |                          |                          |
| Clamp torque @72psi                  | Nm (ft. lbs.)                                                                                                  | 80 (59)               |     |      | 250 (180)                | 400 (295)                | 700 (516)                | 1480 (1076)              | 2580 (1901)              |
| Indexing accuracy                    | arc sec.                                                                                                       | ±30                   |     |      | ±12.5                    | ±10                      | ±7.5                     | ±7.5                     | ±7.5                     |
| Net Weight                           | kg (lbs.)                                                                                                      | 70-110(154-242)       |     |      | 40 (88)                  | 61 (135)                 | 55 (121.2)               | 100 (220)                | 200 (440)                |
| Allowable wheel torque               | Nm (ft. lbs.)                                                                                                  | 176 (130)             |     |      | 206 (152)                | 288 (212)                | 700 (516)                | 1480 (1076)              | 2580 (1901)              |
| Allowable work inertia               | kg·m <sup>2</sup>                                                                                              | .10                   |     |      | .64                      | 1.25                     | 0.48                     | 1.95                     | 4.48                     |
| Allowable work weight                |  kg (lbs)<br>[w/ tailstock] | 25 (55)<br>[50 (110)] |     |      | 100 (220)<br>[200 (441)] | 125 (275)<br>[250 (551)] | 100 (200)<br>[200 (440)] | 125 (275)<br>[250 (550)] | 175 (385)<br>[350 (770)] |
|                                      |  kg (lbs)                   | 50 (110)              |     |      | -                        | -                        | 200 (440)                | 250 (550)                | 350 (770)                |
| Allowable load when table clamped    |  N (lbf)                    | 5,880 (1,317)         |     |      | 10,800 (2,419)           | 14,400 (3,226)           | 10,800 (2,419)           | 14,400 (3,226)           | 24,800 (5,555)           |
|                                      |  Nm (ft. lbs.)              | 80 (59)               |     |      | 500 (369)                | 800 (590)                | 500 (369)                | 1,000 (737)              | 1,500 (1,106)            |
|                                      |  Nm (ft. lbs.)              | 156 (115)             |     |      | 780 (575)                | 1,900 (1,400)            | 780 (575)                | 1,900 (1,400)            | 4,700 (3,464)            |

Dimensions = mm

Specifications subject to change without notice

## RWA-Series Rotary Tables

| Table Model                        |                                                                                                             | RWA-160, GA           | RWA-200, GA           | RWA-250, GA (S)       | RWA-320, GA (S)       |
|------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Versions available                 |                                                                                                             | R, L                  | R, L                  | R, L                  | R, L                  |
| Spindle outer diameter             | mm                                                                                                          | 100h7                 | 120h7                 | 140h7                 | 180h7                 |
| Table diameter                     | mm                                                                                                          | (160, 200)            | (200, 250)            | 250                   | 320                   |
| Center height                      | mm                                                                                                          | 135                   | 160                   | 160                   | 210                   |
| Center bore                        | Nose Diameter                                                                                               | mm                    | 55H7                  | 65H7                  | 80H7                  |
|                                    | Thru Diameter                                                                                               | mm                    | 40                    | 45                    | 50                    |
| Table T-slot width                 |                                                                                                             | (12H8)                | (12H8)                | 12H8                  | 14H7                  |
| Guide block width                  |                                                                                                             | 14h7                  | 18h7                  | 18h7                  | 18h7                  |
| Servo motor (Okuma)*               |                                                                                                             | BL-ME24M-50SN         | BL-ME40M-40TN         | BL-ME80M-40TN         | BL-ME80J-40TN         |
| Maximum motor speed                | rpm                                                                                                         | 5,000                 | 4,000                 | 4,000                 | 4,000 (4,000)         |
| Speed reduction ratio              |                                                                                                             | 1/72                  | 1/72                  | 1/90 (1/45)           | 1/120 (1/45)          |
| Maximum table speed                | rpm                                                                                                         | 69.4                  | 55.6                  | 44.4 (88.9)           | 33.3 (88.9)           |
| Inertia converted into motor shaft | x 10 <sup>-3</sup> kg·m <sup>2</sup>                                                                        | .09                   | .17                   | .41 (.44)             | .52 (1.66)            |
| Clamp system**                     |                                                                                                             | Pneumatic Dual Taper  |                       |                       |                       |
| Clamp torque @500psi               | Nm (ft. lbs.)                                                                                               | 500 (369)             | 800 (590)             | 1,000 (737)           | 1,500 (1,106)         |
| Indexing accuracy                  | arc sec.                                                                                                    | ±12.5                 | ±10                   | ±10                   | ±10                   |
| Net Weight                         | kg (lbs.)                                                                                                   | 38 (84)               | 61 (134)              | 80 (176)              | 145 (319)             |
| Holding torque @72psi              | Nm (ft. lbs.)                                                                                               | 206 (152)             | 288 (212)             | 596 (439)             | 939 (692)             |
| Allowable work inertia             | kg·m <sup>2</sup>                                                                                           | .64                   | 1.25                  | 1.95                  | 4.48                  |
| Allowable work weight              |  kg (lbs) [w/ tailstock] | 100 (220) [175 (385)] | 125 (275) [250 (550)] | 125 (275) [250 (550)] | 175 (385) [375 (825)] |
|                                    |  kg (lbs)                | 200 (440)             | 250 (550)             | 250 (550)             | 350 (770)             |
| Allowable load when table clamped  |  N (lbf)                 | 10,800 (2,419)        | 14,400 (3,226)        | 14,400 (3,226)        | 24,800 (5,555)        |
|                                    |  Nm (ft. lbs.)           | 500 (369)             | 800 (590)             | 1,000 (737)           | 1,500 (1,106)         |
|                                    |  Nm (ft. lbs.)           | 780 (575)             | 1,900 (1,400)         | 1,900 (1,400)         | 4,700 (3,464)         |

Dimensions = mm

Specifications subject to change without notice

# ROTARY TABLE SPECIFICATIONS

## RWB-Series Rotary Tables

| Table Model                          |                                                                                                               | RWB-250, GA              | RWB-250, GA HS           | RWB-320, GA                | RWB-320, GA HS             | RWB-400, GA                | RWB-500, GA                    |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|--------------------------------|
| Versions available                   |                                                                                                               | R, L                     | R, L                     | R, L                       | R, L                       | R, L                       | R, L                           |
| Table diameter                       |                                                                                                               | 250                      | 250                      | 320                        | 320                        | 400                        | 500                            |
| Center height                        |                                                                                                               | 160                      | 160                      | 210                        | 210                        | 255                        | 310                            |
| Center bore                          | Nose Diameter                                                                                                 | 105                      | 105                      | 150                        | 150                        | 200                        | 220                            |
|                                      | Thru Diameter                                                                                                 | 80                       | 80                       | 120                        | 120                        | 160                        | 182                            |
| Table T-slot width (with face plate) |                                                                                                               | 12H7                     | 12H7                     | 14H7                       | 14H7                       | 14H7                       | 18h7                           |
| Guide block width                    |                                                                                                               | 18h7                     |                          |                            |                            |                            |                                |
| Servo motor (Okuma)                  |                                                                                                               | BL-ME80M-40TN            | BL-ME80M-40TN            | BL-ME150M-30SN             | BL-ME150M-30SN             | BL-ME150M-30SN             | BL-ME150M-30SN                 |
| Maximum motor speed                  | rpm                                                                                                           | 4,000                    | 4,000                    | 3,000                      | 3,000                      | 3,000                      | 3,000                          |
| Speed reduction ratio                |                                                                                                               | 1/90                     | 1/45                     | 1/120                      | 1/45                       | 1/90                       | 1/180                          |
| Maximum table speed                  | rpm                                                                                                           | 44.4                     | 88.9                     | 25                         | 66                         | 33                         | 16.6                           |
| Inertia converted into motor shaft   | $\times 10^{-3} \text{kg}\cdot\text{m}^2$                                                                     | 1.27                     | 1.27                     | 3.53                       | 3.47                       | 4.63                       | 3.00                           |
| Clamp system**                       |                                                                                                               | Air / Hydraulic          |                          |                            |                            |                            |                                |
| Clamp torque                         | Nm (ft. lbs.)                                                                                                 | 1,300<br>(2,000)         | 1,300<br>(2,000)         | 3,100<br>(2,284)           | 3,100<br>(2,284)           | 5,500<br>(4,053)           | 7,600<br>(5,601)               |
| Indexing accuracy                    | arc sec.                                                                                                      | $\pm 7$                  |                          |                            |                            |                            |                                |
| Net Weight                           | kg (lbs.)                                                                                                     | 125 (286)                | 125 (286)                | 250 (550)                  | 250 (550)                  | 360 (792)                  | 620 (1,364)                    |
| Allowable wheel torque               | Nm (ft. lbs.)                                                                                                 | 1,011 (745)              | 1,011 (745)              | 2,127 (1,567)              | 2,127 (1,567)              | 3,958 (2,917)              | 3,276 (2,414)                  |
| Allowable work inertia               | $\text{kg}\cdot\text{m}^2$                                                                                    | 7.0                      | 7.0                      | 19.2                       | 19.2                       | 36                         | 112                            |
| Allowable work weight                |  kg (lbs)<br>[w tailstock] | 175 (385)<br>[350 (770)] | 175 (385)<br>[350 (770)] | 250 (550)<br>[500 (1,100)] | 250 (550)<br>[500 (1,100)] | 300 (660)<br>[600 (1,320)] | 600 (1,320)<br>[1,200 (2,640)] |
|                                      | with SSB                                                                                                      | 900 (1,980)              | 900 (1,980)              | 1,500 (3,300)              | 1,500 (3,300)              | 1,900 (3,960)              | 3,600 (7,920)                  |
|                                      |  kg (lbs)                  | 350<br>(770)             | 350<br>(770)             | 500<br>(1,100)             | 500<br>(1,100)             | 600<br>(1,320)             | 1,200<br>(2,640)               |
| Allowable load when table clamped    |  N<br>(lbf)                | 35,000<br>(7,700)        | 35,000<br>(7,700)        | 89,000<br>(19,580)         | 89,000<br>(19,580)         | 109,000<br>(23,980)        | 240,000<br>(52,800)            |
|                                      |  Nm<br>(ft. lbs.)          | 1,300<br>(958)           | 1,300<br>(958)           | 3,100<br>(2,284)           | 3,100<br>(2,284)           | 5,500<br>(4,053)           | 7,600<br>(5,601)               |
|                                      |  Nm<br>(ft. lbs.)          | 1,500<br>(1,105)         | 1,500<br>(1,105)         | 5,300<br>(3,906)           | 5,300<br>(3,906)           | 7,800<br>(5,748)           | 17,000<br>(12,529)             |

Dimensions = mm

Specifications subject to change without notice

## RNCK / RCV / RWB-K-Series Rotary Tables

| Table Model                        |                                                                                     |                              | RNCK-631, GA               | RCV-800K, GA                     | RWB-250K,GA              | RWB-250K, GA HS          | RWB-320K, GA               | RWB-320K, GA HS            | RWB-400K, GA               | RWB-500K, GA                   |
|------------------------------------|-------------------------------------------------------------------------------------|------------------------------|----------------------------|----------------------------------|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|--------------------------------|
| Versions available                 |                                                                                     |                              | -                          | -                                | K                        | K                        | K                          | K                          | K                          | K                              |
| Table diameter                     |                                                                                     |                              | 630                        | 800 (1,000)                      | 250                      | 250                      | 320                        | 320                        | 400                        | 500                            |
| Center height                      |                                                                                     |                              | 400                        | 530                              | 160                      | 160                      | 210                        | 210                        | 255                        | 310                            |
| Center bore                        | Nose Diameter                                                                       |                              | 60H6                       | 360H7 x 45                       | 105                      | 105                      | 150                        | 150                        | 200                        | 220H7                          |
|                                    | Thru Diameter                                                                       |                              | 60                         | 310                              | 80                       | 80                       | 120                        | 120                        | 160                        | 182                            |
| Table T-slot width                 |                                                                                     |                              | 18H7                       |                                  | 12H7                     | 12H7                     | 14H7                       | 14H7                       | 14H7                       | 18H7                           |
| Guide block width                  |                                                                                     |                              | 18h7                       | 22h7                             | 18h7                     |                          |                            |                            |                            |                                |
| Servo motor (Okuma)                |                                                                                     |                              | BL-MC150M-20S              | BL-ME150M-30S                    | BL-ME80M-40TN            | BL-ME80M-40TN            | BL-ME150M-30SN             | BL-ME150M-30SN             | BL-ME150M-30SN             | BL-ME150M-30SN                 |
| Maximum motor speed                | rpm                                                                                 |                              | 2,000                      | 3,000                            | 4,000                    | 4,000                    | 3,000                      | 3,000                      | 3,000                      | 3,000                          |
| Speed reduction ratio              |                                                                                     |                              | 1/180                      | 1/360                            | 1/90                     | 1/45                     | 1/120                      | 1/45                       | 1/90                       | 1/180                          |
| Maximum table speed                | rpm                                                                                 |                              | 11.1                       | 8.33                             | 44.4                     | 88.9                     | 25                         | 66                         | 33.3                       | 16.6                           |
| Inertia converted into motor shaft | x 10 <sup>-3</sup> kg·m <sup>2</sup>                                                |                              | 5.55                       | 4.89                             | 1.27                     | 1.27                     | 3.53                       | 3.53                       | 4.63                       | 3.00                           |
| Clamp system**                     |                                                                                     |                              | Hydraulic                  |                                  |                          |                          |                            |                            |                            |                                |
| Clamp torque                       | Nm (ft. lbs.)                                                                       |                              | 4,410 (3,250)              | 7,000 (5,159)                    | 1,300 (958)              | 1,300 (958)              | 3,100 (2,284)              | 3,100 (2,284)              | 5,500 (4,053)              | 7,600 (5,601)                  |
| Indexing accuracy                  | arc sec.                                                                            |                              | ±7.5                       |                                  | ±7                       |                          |                            |                            |                            |                                |
| Net Weight                         | kg (lbs.)                                                                           |                              | 800 (1,760)                | 1,450 (3,190)                    | 125 (286)                | 125 (286)                | 250 (550)                  | 250 (550)                  | 360 (792)                  | 620 (1,364)                    |
| Allowable wheel torque             | Nm (ft. lbs.)                                                                       |                              | 4,116 (3,033)              | 7,840 (5,778)                    | 1,011 (745)              | 1,011 (745)              | 2,127 (1,567)              | 2,127 (1,567)              | 3,958 (2,917)              | 3,276 (2,414)                  |
| Allowable work inertia             | kg·m <sup>2</sup>                                                                   |                              | 39.7                       | 120                              | 7.0                      | 7.0                      | 19.2                       | 19.2                       | 36                         | 112                            |
| Allowable work weight              |  | kg (lbs)<br>[with tailstock] | 400 (880)<br>[800 (1,760)] | 2,000 (4,400)<br>[4,000 (8,800)] | 175 (385)<br>[250 (550)] | 175 (385)<br>[250 (550)] | 250 (550)<br>[500 (1,100)] | 250 (550)<br>[500 (1,100)] | 300 (660)<br>[600 (1,320)] | 600 (1,320)<br>[1,200 (2,640)] |
|                                    |  | with SSB                     | -                          | -                                | 900 (1,980)              | 900 (1,980)              | 1,500 (3,300)              | 1,500 (3,300)              | 1,900 (3,960)              | 3,600 (7,920)                  |
|                                    |  | kg (lbs)                     | -                          | 4,000 (8,800)                    | -                        | -                        | -                          | -                          | -                          | -                              |
| Allowable load when table clamped  |  | N (lbf)                      | 49,000 (10,976)            | 100,000 (22,400)                 | 35,000 (7,700)           | 35,000 (7,700)           | 89,000 (19,580)            | 89,000 (19,580)            | 109,000 (23,980)           | 240,000 (52,800)               |
|                                    |  | Nm (ft. lbs.)                | 4,410 (3,250)              | 7,000 (5,159)                    | 1,300 (958)              | 1,300 (958)              | 3,100 (2,284)              | 3,100 (2,284)              | 5,500 (4,053)              | 7,600 (5,601)                  |
|                                    |  | Nm (ft. lbs.)                | 7,840 (5,778)              | 11,600 (8,550)                   | 1,500 (1,105)            | 1,500 (1,105)            | 5,300 (3,906)              | 5,300 (3,906)              | 7,800 (5,748)              | 17,000 (12,529)                |

Dimensions = mm

Specifications subject to change without notice

# ROTARY TABLE SPECIFICATIONS

## TWA/TBS-Series & RTT-111, DA/GA Rotary Tables

| Table Model                        |                                                                                                   |                                                                                              | TWA-130, GA               |               | TWA-160, GA               |                | TWA-200, GA               |                | TN-320, GA                    |                   | TBS-130, GA              |           | TBS-160, GA              |             | RTT-111, GA          |           |       |  |
|------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------|---------------|---------------------------|----------------|---------------------------|----------------|-------------------------------|-------------------|--------------------------|-----------|--------------------------|-------------|----------------------|-----------|-------|--|
| Tilt Range                         |                                                                                                   |                                                                                              | -17° ~ +107°              |               | -30° ~ +110°              |                | -30° ~ +110°              |                | -30° ~ +110°                  |                   | -30° ~ +110°             |           | -30° ~ +110°             |             | -17° ~ +107°         |           |       |  |
| Spindle outer diameter             |                                                                                                   |                                                                                              | 90h7                      |               | 100h7                     |                | 120h7                     |                | -                             |                   | 90h7                     |           | 100h7                    |             |                      |           |       |  |
| Table diameter (optional)          |                                                                                                   |                                                                                              | (135)                     |               | 160 (200)                 |                | 200 (250)                 |                | 320                           |                   | (135)                    |           | (160 or 200)             |             |                      |           |       |  |
| Table height at 0° position        |                                                                                                   |                                                                                              | 210<br>(235 w/face plate) |               | 235<br>(260 w/face plate) |                | 270<br>(300 w/face plate) |                | 355                           |                   | 225<br>(250 w/faceplate) |           | 270<br>(300 w/faceplate) |             | 190                  |           |       |  |
| Center height at 90° position      |                                                                                                   |                                                                                              | 150                       |               | 180                       |                | 210                       |                | 255                           |                   | 160                      |           | 200                      |             | 190                  |           |       |  |
| Center bore                        | Nose Diameter (w/ face plate)                                                                     |                                                                                              | 55H7 (40H7)               |               | 55H7 (50H7)               |                | 65H7 (60H7)               |                | 105H7                         |                   | 55H7 (40H7)              |           | 55H7 (50H7)              |             | --                   |           |       |  |
|                                    | Thru Diameter                                                                                     |                                                                                              | 35                        |               | 40                        |                | 45                        |                | 100                           |                   | 40                       |           | 40                       |             | --                   |           |       |  |
| Table T-slot width                 |                                                                                                   |                                                                                              | 12H8<br>(w/face plate)    |               | 12H8<br>(w/face plate)    |                | 12H8<br>(w/face plate)    |                | 14H7                          |                   | 12H8                     |           | 12H8                     |             | --                   |           |       |  |
| Guide block width                  |                                                                                                   |                                                                                              | 14h7                      |               | 18h7                      |                | 18h7                      |                | 18h7                          |                   | 14h7                     |           | 18h7                     |             | 14H7                 |           |       |  |
| Servo motor (Okuma)                |                                                                                                   |                                                                                              | (2) BL-ME24M-50SN         |               | (2) BL-ME24M-50SN         |                | (2) BL-ME40M-40TN         |                | (2) BL-MC50M-30T              |                   | (2) BL-ME24M-50SN        |           | (2) BL-ME24M-50SN        |             | (2) BL-ME24M-50SN    |           |       |  |
| Maximum motor speed                |                                                                                                   |                                                                                              | Rotary                    |               | Tilt                      |                | Rotary                    |                | Tilt                          |                   | Rotary                   |           | Tilt                     |             | Rotary               |           | Tilt  |  |
|                                    |                                                                                                   |                                                                                              | rpm                       |               | 5,000                     |                | 5,000                     |                | 5,000                         |                   | 4,000                    |           | 4,000                    |             | 3,000                |           | 3,000 |  |
| Speed reduction ratio              |                                                                                                   |                                                                                              | 1/60                      |               | 1/120                     |                | 1/72                      |                | 1/120                         |                   | 1/45                     |           | 1/90                     |             | 1/120                |           | 1/120 |  |
| Maximum table speed                |                                                                                                   | rpm                                                                                          | 83.3                      | 41.6          | 69.4                      | 41.6           | 88.9                      | 44.4           | 25                            | 12.5              | 104.2                    | 83.3      | 83.3                     | 66.6        | 41.6                 | 16.6      |       |  |
| Inertia converted into motor shaft |                                                                                                   | x 10 <sup>-3</sup> kg·m <sup>2</sup>                                                         | .074                      | .072          | .17                       | .18            | .38                       | .45            | .82                           | .45               | .074                     | .072      | .17                      | .18         | .074                 | .072      |       |  |
| Clamp system                       |                                                                                                   |                                                                                              | Pneumatic Dual Taper      |               | Pneumatic Double Piston** |                |                           |                | Pneudraulic (air/oil booster) |                   | Pneumatic                |           |                          |             | Pneumatic Dual Taper |           |       |  |
| Clamp torque @72psi [500psi]       |                                                                                                   | Nm (ft. lbs.)                                                                                | 500 (369)                 | 500 (369)     | 500** (369)               | 800** (590)    | 800** (590)               | 1000** (737)   | [2,200] [[1,621]]             | [2,200] [[1,621]] | 700 (516)                | 700 (516) | 700 (516)                | 700 (516)   | 500 (369)            | 500 (369) |       |  |
| Indexing accuracy                  |                                                                                                   | arc sec.                                                                                     | ±20                       | -             | ±15                       | -              | ±15                       | -              | ±10                           | -                 | ±10                      | -         | ±10                      | -           | ±20                  | -         |       |  |
| Tilting accuracy                   |                                                                                                   | arc sec.                                                                                     | -                         | ±22.5         | -                         | ±22.5          | -                         | ±22.5          | -                             | ±22.5             | -                        | ±17.5     | -                        | ±17.5       | -                    | ±30       |       |  |
| Net Weight                         |                                                                                                   | kg (lbs.)                                                                                    | 76 (167)                  |               | 127 (279)                 |                | 190 (418)                 |                | 440 (968)                     |                   | 125 (276)                |           | 160 (353)                |             | 98(216)              |           |       |  |
| Allowable wheel torque - rotary    |                                                                                                   | Nm (ft. lbs.)                                                                                | 152 (112)                 |               | 200 (147)                 |                | 450 (332)                 |                | 931 (686)                     |                   | -                        |           | -                        |             | 152(112)             |           |       |  |
| Allowable work inertia             |                                                                                                   | kg·m <sup>2</sup>                                                                            | .08                       |               | .19                       |                | .59                       |                | 1.53                          |                   | .08                      |           | .19                      |             | .08                  |           |       |  |
| Allowable work weight              | 0° tilt angle                                                                                     |  kg (lbs) | 35 (77)                   |               | 60 (132)                  |                | 120 (264)                 |                | 150 (330)                     |                   | 35 (77)                  |           | 60 (132)                 |             | 35 (77)              |           |       |  |
|                                    | 0° ~ 90° tilt angle                                                                               |  kg (lbs) | 20 (44)                   |               | 40 (88)                   |                | 70 (154)                  |                | 100 (220)                     |                   | 20 (44)                  |           | 40 (88)                  |             | 20 (44)              |           |       |  |
| Allowable work moment              |  Nm (ft. lbs.) | 24 (17.7)                                                                                    |                           | 39.2 (28.9)   |                           | 53.7 (39.6)    |                           | 163.3 (120.4)  |                               | 61.1              |                          | 59.6      |                          | 57 (42)     |                      |           |       |  |
| Allowable load when table clamped  |  N (lbf)       | 3,920 (878)                                                                                  |                           | 7,840 (1,756) |                           | 13,720 (3,073) |                           | 19,600 (4,390) |                               | 3,920 (878)       |                          | 10,800    |                          | 3,920 (878) |                      |           |       |  |
|                                    |  Nm (ft. lbs.) | 500 (369)                                                                                    |                           | 500** (369)   |                           | 800** (590)    |                           | 2,200 (1,621)  |                               | 700 (516)         |                          | 700 (516) |                          | 500 (369)   |                      |           |       |  |
|                                    |  Nm (ft. lbs.) | 500 (369)                                                                                    |                           | 800** (490)   |                           | 1000** (737)   |                           | 2,200 (1,621)  |                               | 700 (516)         |                          | 700 (516) |                          | 500 (369)   |                      |           |       |  |

Dimensions = mm

Specifications subject to change without notice

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