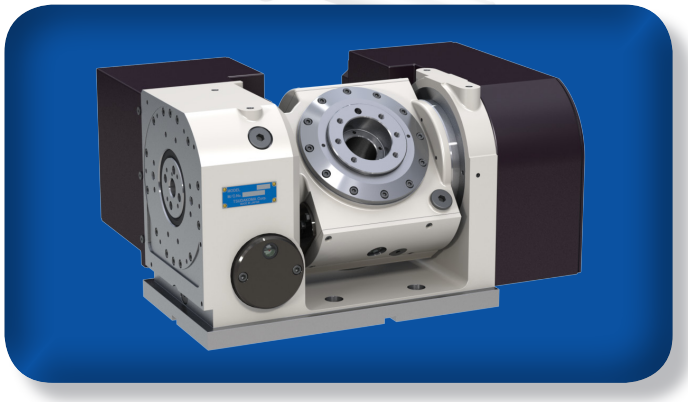
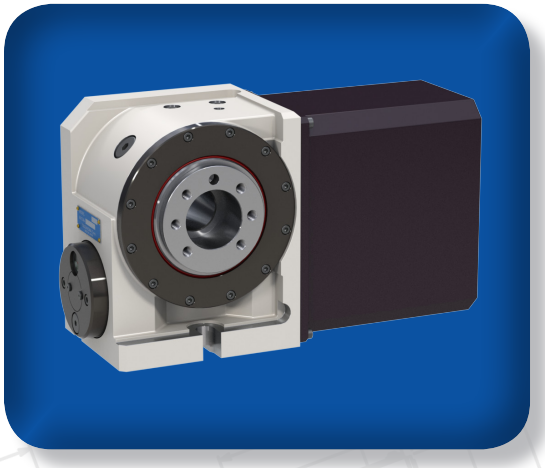
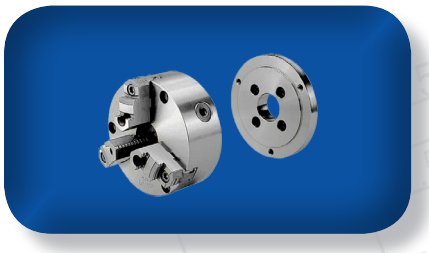
TSUDAKOMA

# ROTARY TABLE SELECTION GUIDE



HWACHEON





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20 Thompson Rd | East Windsor | CT 06088
1.800.249.5662 | 860.623.4132 Fax
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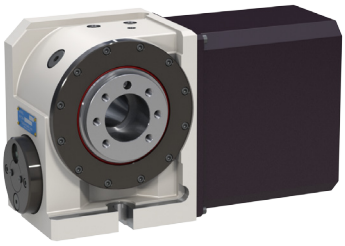
# ROTARY TABLES

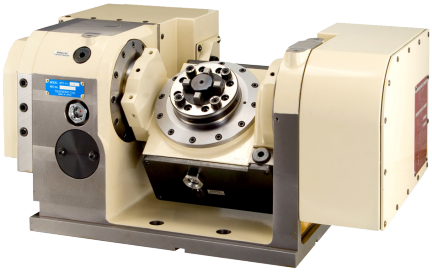
RNE SERIES



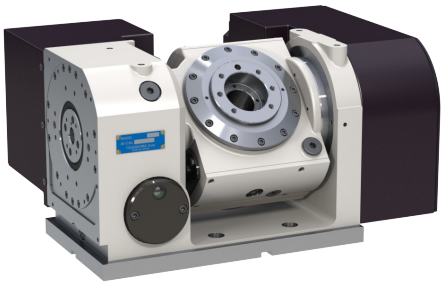
RWA SERIES

RBS SERIES

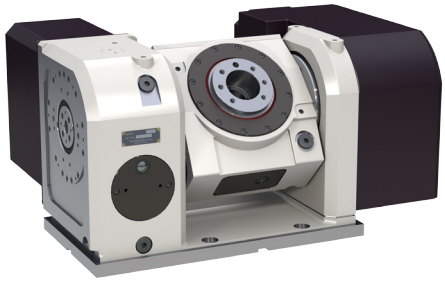
RN MULTI SERIES



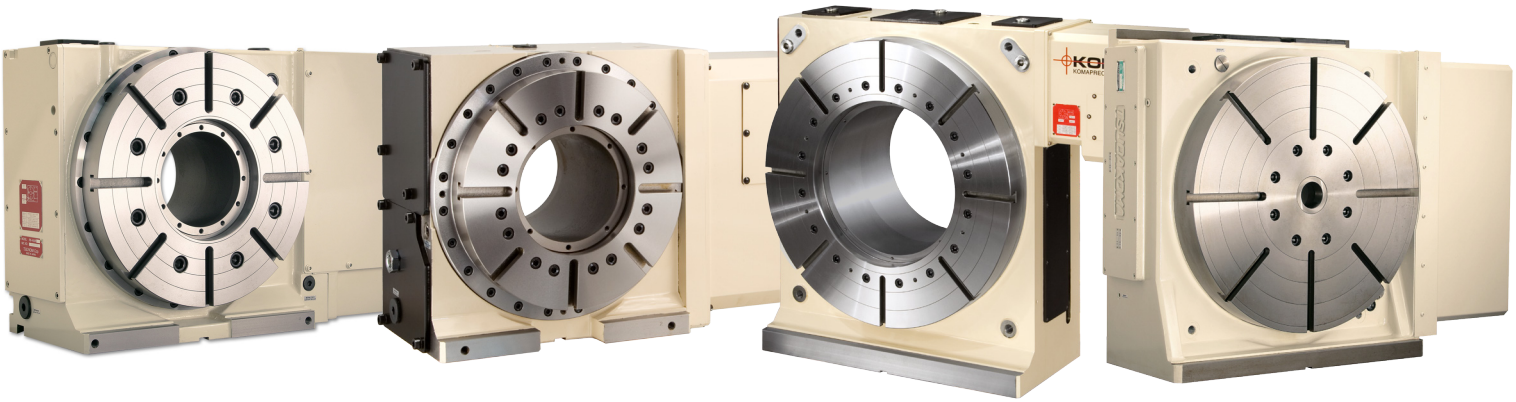
5th AXIS TILTING
RTT-111, CA



TWA SERIES



TWA SERIES



RBA SERIS

RCB SERIES

RCV SERIES

RNCM SERIES

TSUDAKOMA ROTARY TABLES

| VESTA 610D | | | | |
|---|---|---|---|---|
| RNE SERIES | RNE-160 | RNE-200 | | |
| RWA SERIES | RWA-160 | RWA-200 | | |
| RBS SERIES | RBS-160 | | | |
| RN MULTI SERIES | RN-100R-2 | | | |
| TWA SERIES | TWA-130 | | | |
| TBS SERIES | TBS-130 | | | |
| 5th AXIS TILTING | RTT-111, CA | | | |
| **VESTA 660** | | | | |
| RNE SERIES | RNE-160 | RNE-200 | | |
| RWA SERIES | RWA-160 | RWA-200 | RWA-250 | |
| RBS SERIES | RBS-160 | | | |
| RN MULTI SERIES | RN-100R-2 | | | |
| TWA SERIES | TWA-130 | TWA-160 | | |
| TBS SERIES | TBS-130 | TBS-160 | | |
| 5th AXIS TILTING | RTT-111, CA | | | |
| **VESTA 1000** | | | | |
| RNE SERIES | RNE-160 | RNE-200 | | |
| RWA SERIES | RWA-160 | RWA-200 | RWA-250 | RWA-320 |
| RBS SERIES | RBS-160 | RBS-250 | | |
| RN MULTI SERIES | RN-100R-2 | RN-100R-4 | | |
| TWA SERIES | TWA-130 | TWA-160 | TWA-200 | |
| TBS SERIES | TBS-130 | TBS-160 | | |

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## VESTA 610D

TSUDAKOMA ROTARY TABLES

| VESTA 850B | | | | |
|---|---|---|---|---|
| RNE SERIES | RNE-160 | RNE-200 | | |
| RWA SERIES | RWA-160 | RWA-200 | RWA-250 | RWA-320 |
| RBS SERIES | RBS-160 | RBS-250 | | |
| RN MULTI SERIES | RN-100R-2 | RN-100R-4 | | |
| TWA SERIES | TWA-130 | TWA-160 | TWA-200 | |
| TBS SERIES | TBS-130 | TBS-160 | | |
| 5th AXIS TILTING | RTT-111, CA | | | |
| **VESTA 1050B** | | | | |
| RNE SERIES | RNE-160 | RNE-200 | | |
| RWA SERIES | RWA-160 | RWA-200 | RWA-250 | RWA-320 |
| RBS SERIES | RBS-160 | RBS-250 | | |
| RN MULTI SERIES | RN-100R-2 | RN-100R-4 | | |
| TWA SERIES | TWA-130 | TWA-160 | TWA-200 | |
| TBS SERIES | TBS-130 | TBS-160 | | |
| 5th AXIS TILTING | RTT-111, CA | | | |
| **VESTA 1300B** | | | | |
| RNE SERIES | RNE-160 | RNE-200 | | |
| RWA SERIES | RWA-160 | RWA-200 | RWA-250 | RWA-320 |
| RBS SERIES | RBS-160 | RBS-250 | RBS-320 | |
| RBA SERIES | RBA-320 | RBA-400 | | |
| RCB SERIES | RCB-350 | RCB-450 | | |
| RN MULTI SERIES | RN-100R-2 | RN-100R-4 | | |
| TWA SERIES | TWA-130 | TWA-160 | TWA-200 | TN-320 |
| TBS SERIES | TBS-130 | TBS-160 | | |
| 5th AXIS TILTING | RTT-111, CA | | | |

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## VESTA 850B

TSUDAKOMA ROTARY TABLES

| SIRIUS 7040 / 7050 | | | | |
|---|---|---|---|---|
| RNE SERIES | RNE-160 | RNE-200 | | |
| RWA SERIES | RWA-160 | RWA-200 | RWA-250 | RWA-320 |
| RBS SERIES | RBS-160 | RBS-250 | RBS-320 | |
| RBA SERIES | RBA-320 | RBA-400 | | |
| RCB SERIES | RCB-350 | RCB-450 | | |
| RN MULTI SERIES | RN-100R-2 | RN-100R-4 | | |
| TWA SERIES | TWA-130 | TWA-160 | TWA-200 | TN-320 |
| TBS SERIES | TBS-130 | TBS-160 | | |
| 5th AXIS TILTING | RTT-111, CA | | | |

| SIRIUS 650 / 850 / 1050 | | | | |
|---|---|---|---|---|
| RNE SERIES | RNE-160 | RNE-200 | | |
| RWA SERIES | RWA-160 | RWA-200 | RWA-250 | RWA-320 |
| RBS SERIES | RBS-160 | RBS-250 | RBS-320 | |
| RBA SERIES | RBA-320 | RBA-400 | | |
| RCB SERIES | RCB-350 | RCB-450 | | |
| RN MULTI SERIES | RN-100R-2 | RN-100R-4 | | |
| TWA SERIES | TWA-130 | TWA-160 | TWA-200 | TN-320 |
| TBS SERIES | TBS-130 | TBS-160 | | |
| 5th AXIS TILTING | RTT-111, CA | | | |

| SIRIUS 1250 | | | | |
|---|---|---|---|---|
| RNE SERIES | RNE-160 | RNE-200 | | |
| RWA SERIES | RWA-160 | RWA-200 | RWA-250 | RWA-320 |
| RBS SERIES | RBS-160 | RBS-250 | RBS-320 | |
| RBA SERIES | RBA-320 | RBA-400 | RBA-500 | |
| RCB SERIES | RCB-350 | RCB-450 | RCB-550 | |
| RNCM SERIES | RNCM-631 | | | |
| RN MULTI SERIES | RN-100R-2 | RN-100R-4 | | |
| TWA SERIES | TWA-130 | TWA-160 | TWA-200 | TN-320 |
| TBS SERIES | TBS-130 | TBS-160 | | |
| 5th AXIS TILTING | RTT-111, CA | | | |

TSUDAKOMA ROTARY TABLES

| SIRIUS 1750 / 2500 | | | | |
|---|---|---|---|---|
| RNE SERIES | RNE-160 | RNE-200 | | |
| RWA SERIES | RWA-160 | RWA-200 | RWA-250 | RWA-320 |
| RBS SERIES | RBS-160 | RBS-250 | RBS-320 | |
| RBA SERIES | RBA-320 | RBA-400 | RBA-500 | |
| RCB SERIES | RCB-350 | RCB-450 | RCB-550 | |
| RCV SERIES | RCV-800R | | | |
| RNCM SERIES | RNCM-631 | | | |
| RN MULTI SERIES | RN-100R-2 | RN-100R-4 | | |
| TWA SERIES | TWA-130 | TWA-160 | TWA-200 | TN-320 |
| TBS SERIES | TBS-130 | TBS-160 | | |
| 5th AXIS TILTING | RTT-111, CA | | | |

| SIRIUS UL / UL+ / UM | | | | |
|---|---|---|---|---|
| RNE SERIES | RNE-160 | RNE-200 | | |
| RWA SERIES | RWA-160 | RWA-200 | RWA-250 | RWA-320 |
| RBS SERIES | RBS-160 | RBS-250 | | |
| RN MULTI SERIES | RN-100R-2 | RN-100R-4 | | |
| TWA SERIES | TWA-130 | TWA-160 | TWA-200 | |
| TBS SERIES | TBS-130 | TBS-160 | | |
| 5th AXIS TILTING | RTT-111, CA | | | |

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## SIRIUS UL+

TSUDAKOMA ROTARY TABLES

| | | | | |
|---|---|---|---|---|
| **HiREX 4000** | | | | |
| **RNE SERIES** | RNE-160 | RNE-200 | | |
| **RWA SERIES** | RWA-160 | RWA-200 | RWA-250 | RWA-320 |
| **RBS SERIES** | RBS-160 | RBS-250 | | |
| **RN MULTI SERIES** | RN-100R-2 | RN-100R-4 | | |
| **TWA SERIES** | TWA-130 | TWA-160 | TWA-200 | |
| **TBS SERIES** | TBS-130 | TBS-160 | | |
| **5th AXIS TILTING** | RTT-111, CA | | | |
| **HIT 360D / 400** | | | | |
| **RNE SERIES** | RNE-160 | RNE-200 | | |
| **RWA SERIES** | RWA-160 | RWA-200 | | |
| **RBS SERIES** | RBS-160 | | | |
| **RN MULTI SERIES** | RN-100R-2 | | | |
| **TWA SERIES** | TWA-130 | | | |
| **TBS SERIES** | TBS-130 | | | |
| **5th AXIS TILTING** | RTT-111, CA | | | |
| **HIT 400L** | | | | |
| **RNE SERIES** | RNE-160 | RNE-200 | | |
| **RWA SERIES** | RWA-160 | RWA-200 | RWA-250 | |
| **RBS SERIES** | RBS-160 | | | |
| **RN MULTI SERIES** | RN-100R-2 | | | |
| **TWA SERIES** | TWA-130 | TWA-160 | | |
| **TBS SERIES** | TBS-130 | TBS-160 | | |
| **5th AXIS TILTING** | RTT-111, CA | | | |

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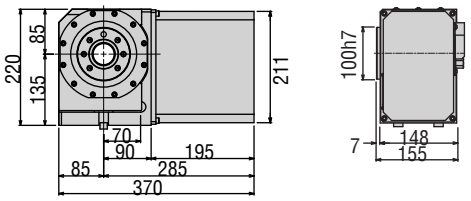
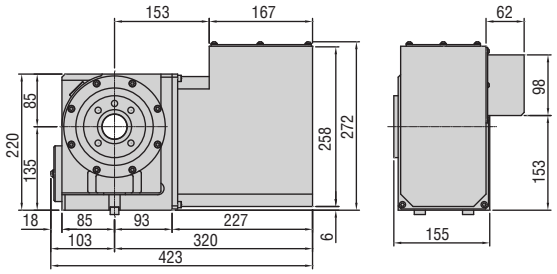
## HIT 360D

# RWA, RBA & RNE Series ROTARY TABLE DIMENSIONS

**(Drawings Not To Scale)**

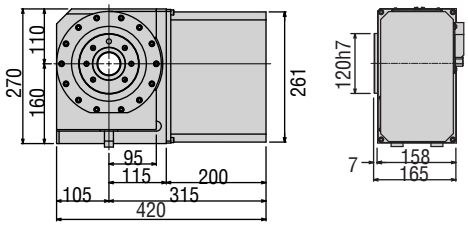
**RWA-160R**

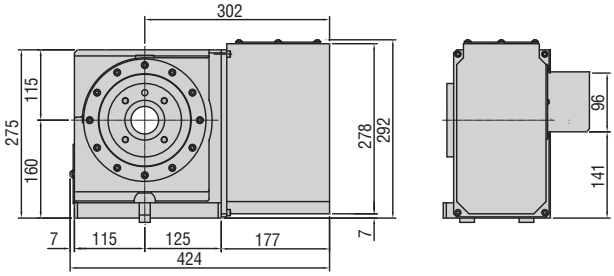



**RNE-160R**

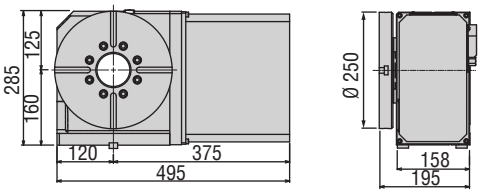
**RWA-200R**

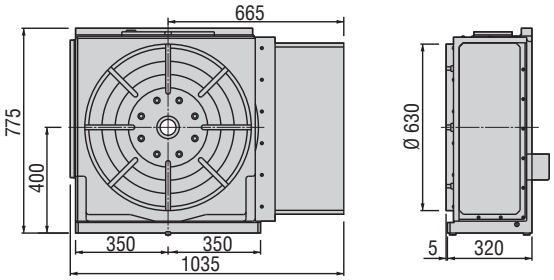



**RNE-200R**

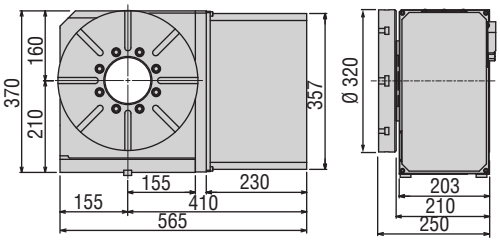
**RWA-250R**




**RNCM-631R**

**RWA-320R**

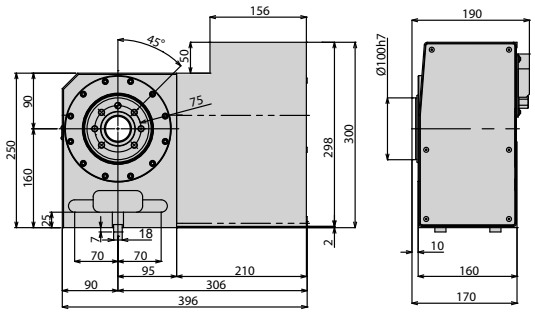


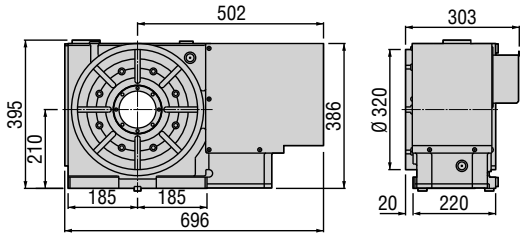

**Please contact Koma Precision to confirm Hwacheon / Tsudakoma Rotary Table working envelope.**

# RBS, RBA, RN-Multi Series ROTARY TABLE DIMENSIONS

**(Drawings Not To Scale)**

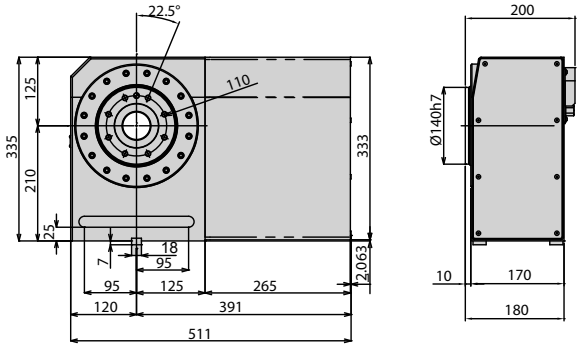
**RBS-160**

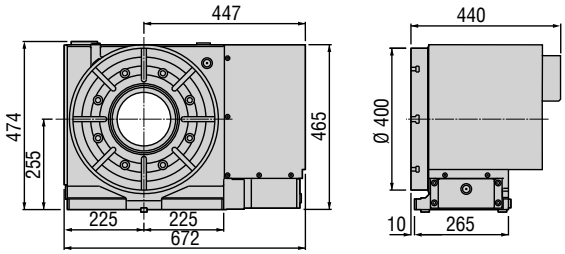



**RBA-320R**

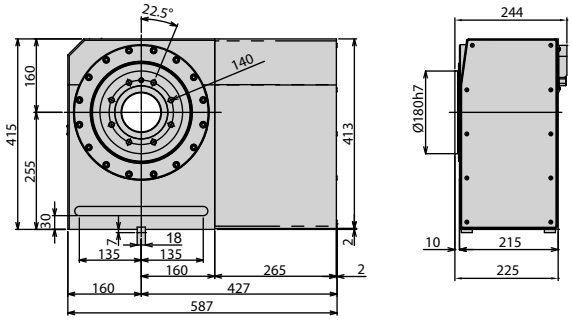
**RBS-250**

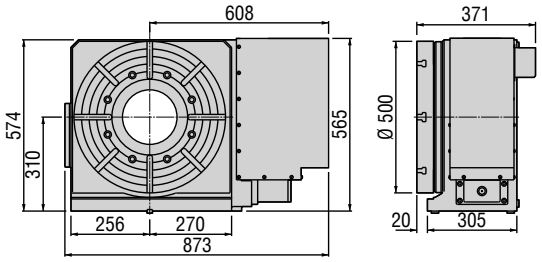



**RBA-400R**

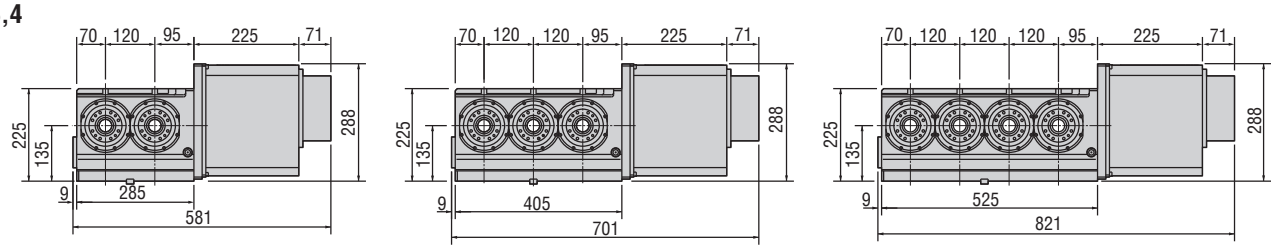
**RBS-320**




**RBA-500R**

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

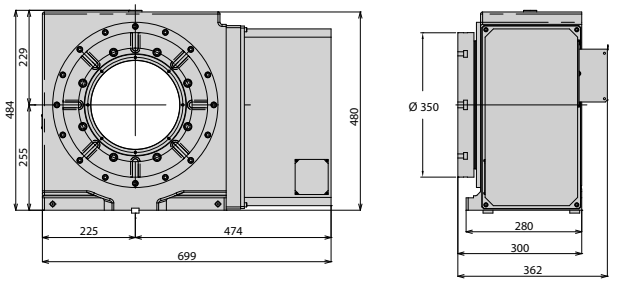



**Please contact Koma Precision to confirm Hwacheon / Tsudakoma Rotary Table working envelope.**

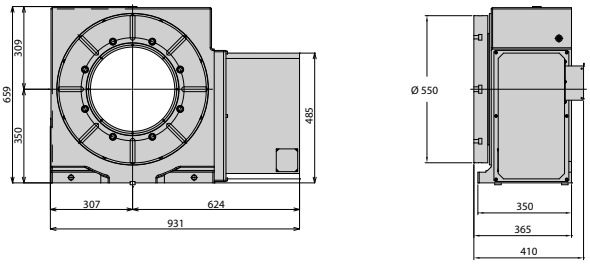
# RCB, RVC-Series & RTT-111,CA ROTARY TABLE DIMENSIONS

**(Drawings Not To Scale)**

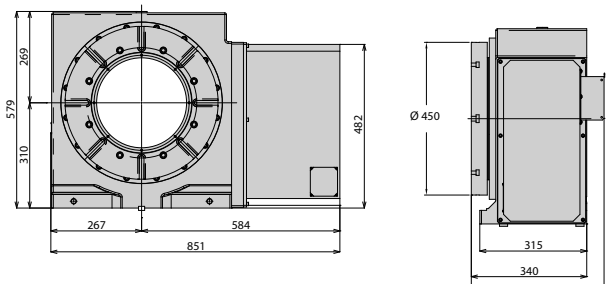
## RCB-350



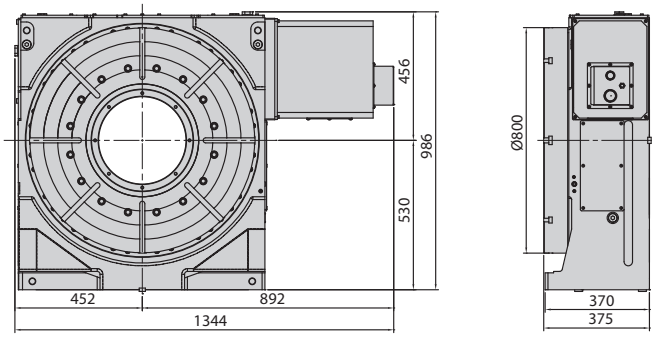

## RCB-550



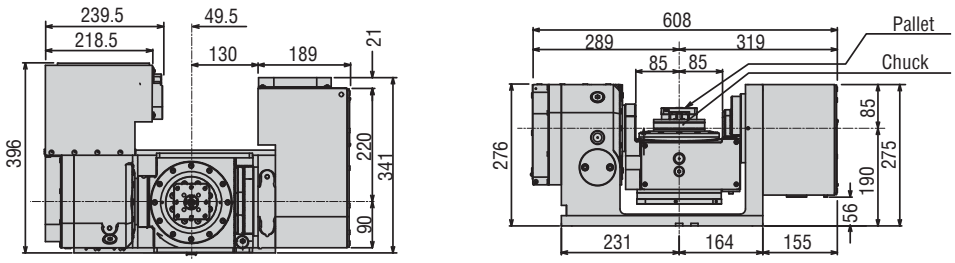

## RCB-450




## RCV-800R



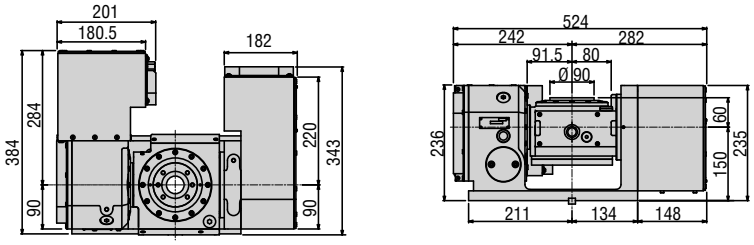

## RTT-111, CA



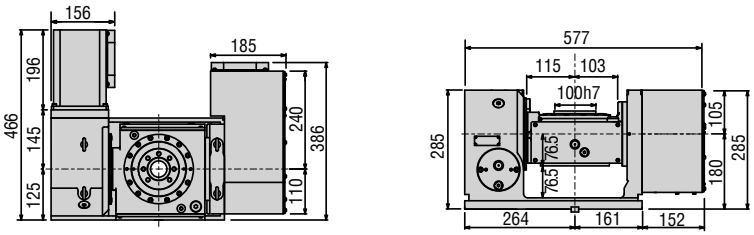

**Please contact Koma Precision to confirm Hwacheon / Tsudakoma Rotary Table working envelope.**

## TWA-Series ROTARY TABLE DIMENSIONS
(Drawings Not To Scale)

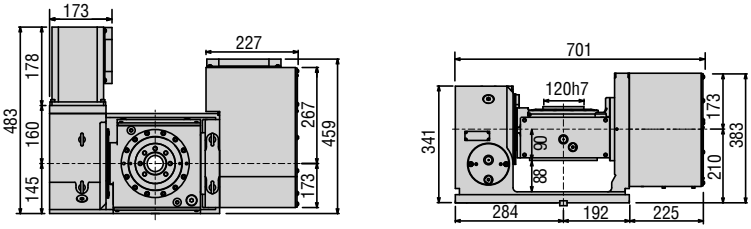
**TWA-130**



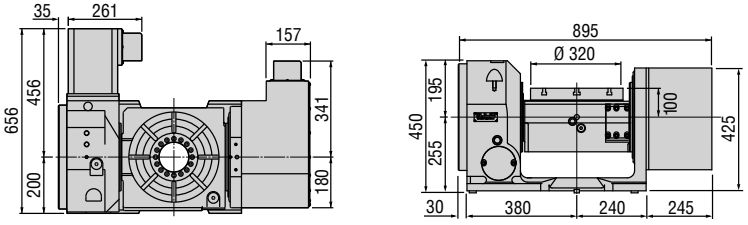

**TWA-160**




**TWA-200**

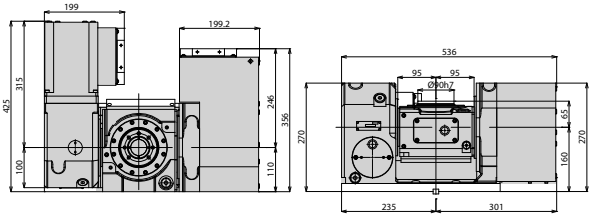


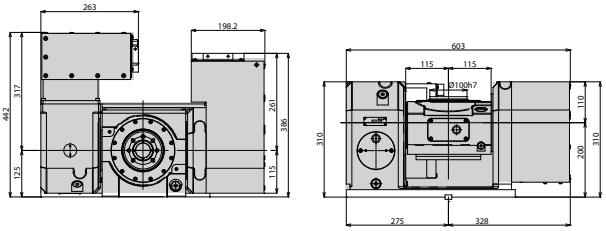

**TN-320**




## TBS-Series ROTARY TABLE DIMENSIONS
(Drawings Not To Scale)

**TBS-130**




**TBS-160**

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

## RN-Multi, RWA & RNE-Series Rotary Tables

| Table Model | | RN-100-2,3,4 | RWA-160 | RWA-200 | RWA-250 (S) | RWA-320 (S) | RNE-160 | RNE-200 |
|---|---|---|---|---|---|---|---|---|
| Versions available | | R, L | R, L | R, L | R, L | R, L | R, L | R, L |
| Spindle outer diameter | | 80h7 | 100h7 | 120h7 | 140h7 | 180h7 | 100h7 | 120h7 |
| Table diameter (optional) | | (115) | (160, 200) | (200, 250) | 250 | 320 | (160, 200) | (200, 250) |
| Center height | | 135 | 135 | 160 | 160 | 210 | 135 | 160 |
| Center bore | Nose Diameter | 50H7 | 55H7 | 65H7 | 80H7 | 115H7 | 55H7 | 65H7 |
| | Thru Diameter | 30 | 40 | 45 | 50 | 85 | 40 | 45 |
| Table T-slot width (with face plate) | | - | (12H8) | (12H8) | 12H8 | 14H7 | (12H8) | (12H8) |
| Minimum spindle center distance | | 120 | - | - | - | - | - | - |
| Guide block width | | 18h7 | 14h7 | 18h7 | 18h7 | 18h7 | 14h7 | 18h7 |
| Servo motor (Fanuc)* | | Alpha 4i | Alpha 2i | Alpha 4i | Alpha 8i (8is) | Alpha 8i (22is) | Alpha 4i | Alpha 4i |
| Maximum motor speed | rpm | 4,000 | 5,000 | 4,000 | 3,000 (4,000) | 3,000 (4,000) | 4,000 | 4,000 |
| Speed reduction ratio | | 1/36 | 1/72 | 1/72 | 1/90 (1/45) | 1/120 (1/45) | 1/90 | 1/90 |
| Number of spindles | | 2 / 3 / 4 | - | - | - | - | - | - |
| Maximum table speed | rpm | 111.1 | 69.4 | 55.6 | 33.3 (88.9) | 25 (88.9) | 44.4 | 44.4 |
| Inertia converted into motor shaft | x $10^{-3}$kg·m² | .64 / .92 / 1.06 | .09 | .17 | .41 (.44) | .52 (1.66) | .09 | .17 |
| Clamp system | | **Pneumatic** | Pneumatic Dual Taper | | | | Pneumatic Disc Clamp | |
| Clamp torque @72psi | Nm (ft. lbs.) | 80 (59) | 500 (369) | 800 (590) | 1,000 (737) | 1,500 (1,106) | 250 (180) | 400 (295) |
| Indexing accuracy | arc sec. | ±30 | ±12.5 | ±10 | ±10 | ±10 | ±12.5 | ±10 |
| Repeatability | arc sec. | ±2 | | | | | ±2 | ±2 |
| Net Weight | kg (lbs.) | 70-110(154-242) | 38 (84) | 61 (134) | 80 (176) | 145 (319) | 44 (97) | 62 (136) |
| Allowable wheel torque | Nm (ft. lbs.) | 176 (130) | 206 (152) | 288 (212) | 596 (439) | 939 (692) | 206 (152) | 288 (212) |
| Allowable work inertia | kg·m² | .10 | .64 | 1.25 | 1.95 | 4.48 | .48 | 1.25 |
| Allowable work weight | kg (lbs) [w/ tailstock] | 25 (55) [50 (110)] | 100 (220) [175 (385)] | 125 (275) [250 (550)] | 125 (275) [250 (550)] | 175 (385) [375 (825)] | 75 (165) [150 (330)] | 100 (220) [250 (550)] |
| | kg (lbs) | 50 (110) | 200 (440) | 250 (550) | 250 (550) | 350 (770) | - | - |
| Allowable load when table clamped | N (lbf) | 5,880 (1,317) | 10,800 (2,419) | 14,400 (3,226) | 14,400 (3,226) | 24,800 (5,555) | 7,840 (1,762) | 13,720 (3,085) |
| | Nm (ft. lbs.) | 80 (59) | 500 (369) | 800 (590) | 1,000 (737) | 1,500 (1,106) | 250 (180) | 400 (295) |
| | Nm (ft. lbs.) | 156 (115) | 780 (575) | 1,900 (1,400) | 1,900 (1,400) | 4,700 (3,464) | 392 (290) | 980 (723) |

* Other motors & RPM available
** Booster optional
Dimensions = mm
Specifications subject to change without notice

## RBS, RBA & RNCM-Series Rotary Tables

| Table Model | | | RBS-160 | RBS-250 | RBS-320 | RBA-320 | RBA-400 | RBA-500 | RNCM-401 | RNCM-501 | RNCM-631 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Versions available | | | R | R | R | R, L | R, L | R, L | R, L | R, L | R, L |
| Spindle outer diameter | | mm | 100h7 | 140h7 | 180h7 | -- | | | | | |
| Table diameter | | mm | (160, 200) | 250 | 320 | 320 | 400 | 500 | 400 | 500 | 630 |
| Center height | | mm | 160 | 210 | 255 | 210 | 255 | 310 | 255 | 310 | 400 |
| Center bore | Nose Diameter | mm | 55H7 | 80H7 | 115H7 | 130H7 | 190H7 | 220H7 | 40H7 | 50H7 | 60H6 |
| | Thru Diameter | mm | 40 | 50 | 85 | 101 | 151 | 182 | 40 | 50 | 60 |
| Table T-slot width | | | 12H8 | 12H8 | 14H8 | 14H7 | 14H7 | 18H7 | 14H7 | 18H7 | 18H7 |
| Guide block width | | | 14h7 | 18h7 | 18h7 | 18h7 | | | | | |
| Servo motor (Fanuc)* | | | Alpha 4i | Alpha 8i | Alpha 12i | Alpha 12i | Alpha 12i | Alpha 12i | Alpha 12i | Alpha 12i | Alpha 12i |
| Maximum motor speed | | rpm | 5,000 | 5,000 | 4,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 |
| Speed reduction ratio | | | 1/36 | 1/36 | 1/36 | 1/90 | 1/90 | 1/180 | 1/180 | 1/180 | 1/180 |
| Maximum table speed | | rpm | 138.9 | 138.9 | 111.1 | 33.3 | 33.3 | 16.7 | 16.7 | 16.7 | 16.7 |
| Inertia converted into motor shaft | | x $10^{-3}$kg·m$^2$ | 0.19 | 0.42 | 2.24 | 3.04 | 4.28 | 3.00 | 2.05 | 3.09 | 5.55 |
| Clamp system** | | | Pneumatic | | | Hydraulic | | | | | |
| Clamp torque @500psi | | Nm (ft. lbs.) | 500 | 1,000 | 1,500 | 2,450 (1,806) | 4,200 (3,095) | 6,100 (4,496) | 1,764 (1,300) | 2,450 (1,806) | 4,410 (3,250) |
| Indexing accuracy | | arc sec. | ±7.5 | ±7.5 | ±7.5 | ±7 | | | ±7.5 | | |
| Repeatability | | arc sec. | ±2 | ±2 | ±2 | ±2 | | | ±2 | | |
| Net Weight | | kg (lbs.) | 55 (121.2) | 100 (220) | 200 (440) | 180 (396) | 300 (660) | 550 (1,210) | 300 (660) | 450 (990) | 800 (1,760) |
| Allowable wheel torque | | Nm (ft. lbs.) | -- | | | 939 (692) | 1,666 (1,228) | 3,276 (2,414) | 1,666 (1,228) | 2,450 (1,805) | 4,116 (3,033) |
| Holding torque @72psi | | Nm (ft. lbs.) | 700 (516) | 1480 (1076) | 2580 (1901) | -- | | | | | |
| Allowable work inertia | | kg·m$^2$ | 0.48 | 1.95 | 4.48 | 5.12 | 9.7 | 18.2 | 9.7 | 18.2 | 39.7 |
| Allowable work weight | | kg (lbs) [w/ tailstock] | 100 (200) [200 (440)] | 125 (275) [250 (550)] | 175 (385) [350 (770)] | 200 (440) [400 (880)] | 250 (550) [500 (1,100)] | 250 (550) [600 (1,320)] | 200 (440) [500 (1,100)] | 250 (550) [600 (1,320)] | 400 (880) [1000 (1,760)] |
| | | kg (lbs) | 200 (440) | 250 (550) | 350 (770) | 400 (880) | 500 (1,100) | 600 (1,320) | 500 (1,100) | 600 (1,320) | 1,000 (2,200) |
| Allowable load when table clamped | | N (lbf) | 10,800 (2,419) | 14,400 (3,226) | 24,800 (5,555) | 29,400 (6,586) | 39,200 (8,781) | 49,000 (10,976) | 39,200 (8,781) | 49,000 (10,976) | 49,000 (10,976) |
| | | Nm (ft. lbs.) | 500 (369) | 1,000 (737) | 1,500 (1,106) | 2,450 (1,806) | 4,200 (3,095) | 6,100 (4,496) | 1,764 (1,300) | 2,450 (1,806) | 4,410 (3,250) |
| | | Nm (ft. lbs.) | 780 (575) | 1,900 (1,400) | 4,700 (3,464) | 3,626 (2,672) | 5,880 (4,334) | 13,132 (9,678) | 2,450 (1,806) | 3,430 (2,528) | 7,840 (5,778) |

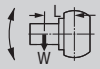
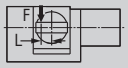
* Other motors & RPM available
** Booster optional
Dimensions = mm
Specifications subject to change without notice

## RCB & RCV-Series Rotary Tables

| Table Model | | | RCB-350 | RCB-450 | RCB- 550 | RCV-800R |
|---|---|---|---|---|---|---|
| Versions available | | | R,L | R,L | R,L | |
| Table diameter | | | 350 | 450 | 550 | 800 (1,000) |
| Center height | | | 255 | 310 | 350 | 530 |
| Center bore | Nose Diameter | | 245H7 | 295H7 | 345H7 | 360H7 x 45 |
| | Thru Diameter | | 215 | 265 | 315 | 310 |
| Table T-slot width | | | 14H7 | 14H7 | 18H7 | 18H7 |
| Guide block width | | | 18h7 | 18h7 | 18h7 | 22h7 |
| Servo motor* | | | Alpha 12i | Alpha 22i | Alpha 22i | Alpha 12i |
| Maximum motor speed | | rpm | 3,000 | 3,000 | 3,000 | 3,000 |
| Speed reduction ratio | | | 1/90 | 1/90 | 1/120 | 1/360 |
| Maximum table speed | | rpm | 33.3 | 33.3 | 33.3 | 8.33 |
| Inertia converted into motor shaft | | x $10^{-3}$kg·m$^2$ | 3.48 | 6.14 | 6.01 | 4.89 |
| Clamp system** | | | Hydraulic | | | |
| Clamp torque @500psi | | Nm (ft. lbs.) | 3,300 (2,432) | 4,700 (3,464) | 6,500 (4,790) | 7,000 (5,159) |
| Indexing accuracy | | arc sec. | ±7.5 | | | |
| Repeatability | | arc sec. | ±2 | | | |
| Net Weight | | kg (lbs.) | 400 (880) | 520 (1,144) | 720 (1,584) | 1,450 (3,190) |
| Allowable wheel torque | | Nm (ft. lbs.) | 1,942 (1,431) | 3,276 (2,414) | 4,716 (3,475) | 7,840 (5,778) |
| Allowable work inertia | | kg·m$^2$ | 6.1 | 17.7 | 37.8 | 320 |
| Allowable work weight [with tailstock] | | kg (lbs) | 400 (880) | 700 (1,540) | 1,000 (2200) | 2,000 (4,400) [4,000 (8,000)] |
| Allowable load when table clamped | | N (lbf) | 29,400 (6,586) | 45,000 (10,080) | 54,000 (12,096) | 100,000 (22,400) |
| | | Nm (ft. lbs.) | 3,300 (2,432) | 4,700 (3,464) | 6,500 (4,790) | 7,000 (5,159) |
| | | Nm (ft. lbs.) | 3,626 (2,672) | 8,000 (5,896) | 15,132 (11,152) | 11,600 (8,550) |

* Other motors & RPM available
** Booster optional
Dimensions = mm
Specifications subject to change without notice

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

| Model | | | TWA-130 | | TWA-160 | | TWA-200 | | TN-320 | | TBS-130 | | TBS-160 | | RTT-111, CA | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 (235 w/faceplate) | | 235 (260 w/faceplate) | | 270 (300 w/faceplate) | | 355 | | 225 (250 w/faceplate) | | 270 (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 (w/faceplate) | | 12H8 (w/faceplate) | | 12H8 (w/faceplate) | | 14H7 | | - | | - | | -- | |
| Guide block width | | | 14h7 | | 18h7 | | 18h7 | | 18h7 | | - | | - | | 14H7 | |
| Servo motor (Fanuc)* | | | Rotary | Tilt | Rotary | Tilt | Rotary | Tilt | Rotary | Tilt | Rotary | Tilt | Rotary | Tilt | Rotary | Tilt |
| | | | Alpha 2i | Alpha 2i | Alpha 2i | Alpha 2i | Alpha 4i | Alpha 4i | Alpha 8i | Alpha 8i | Alpha 2i | Alpha 2i | Alpha 2i | Alpha 4i | Alpha 2i | Alpha 2i |
| Maximum motor speed | | rpm | 5,000 | 5,000 | 5,000 | 5,000 | 4,000 | 4,000 | 3,000 | 3,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |
| Speed reduction ratio | | | 1/60 | 1/120 | 1/72 | 1/120 | 1/45 | 1/90 | 1/120 | 1/240 | 1/48 | 1/60 | 1/60 | 1/60 | 1/60 | 1/120 |
| Maximum table speed | | rpm | 83.3 | 41.7 | 69.4 | 41.7 | 88.9 | 44.4 | 25 | 12.5 | 104.2 | 83.3 | 83.3 | 83.3 | 83.3 | 41.7 |
| Inertia converted into motor shaft | | x $10^{-3}$kg·m² | .074 | .072 | .17 | .18 | .38 | .45 | .82 | .45 | .074 | .072 | .17 | .18 | .074 | .072 |
| Clamp system | | | Pneumatic Dual Taper | | | | | | Hydraulic @500 psi ** | | Pneumatic | | | | Pneumatic Dual Taper | |
| Clamp torque @72psi | | Nm (ft. lbs.) | 500 (369) | 500 (369) | 500 (369) | 800 (590) | 800 (590) | 1,000 (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 | - |
| Indexing repeatability | | arc sec. | ±2 | - | ±2 | - | ±2 | - | ±2 | - | ±2 | - | ±2 | - | ±2 | - |
| Tilting accuracy | | arc sec. | - | ±22.5 | - | ±22.5 | - | ±22.5 | - | ±22.5 | - | ±17.5 | - | ±17.5 | - | ±30 |
| Tilting repeatability | | arc sec. | - | ±4 | - | ±2 | - | ±2 | - | ±2 | - | ±2 | - | ±2 | - | ±4 |
| 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·m² | .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 (590) | | 1,000 (737) | | 2,200 (1,621) | | 700 (516) | | 700 (516) | | 500 (369) | |

* Other motors & RPM available  ** Booster optional  Dimensions = mm  Specifications subject to change without notice

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20 Thompson Rd | East Windsor | CT 06088
1.800.249.5662 | 860.623.4132 Fax
www.komaprecision.com | info@komaprecision.com

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