

## Rotary Series Worm Drive Precision Stages

The Rotary Stage Series offers an unparalleled combination of high accuracy and high load capacity. These rotary stages utilize a precision worm gear with the worm “flexed” against the gear to ensure a proper mesh. This feature provides high repeatability with very smooth operation. Additionally, the rotary stages incorporate an oversized preloaded cross roller bearing, offering exceptional stiffness and load capacity.

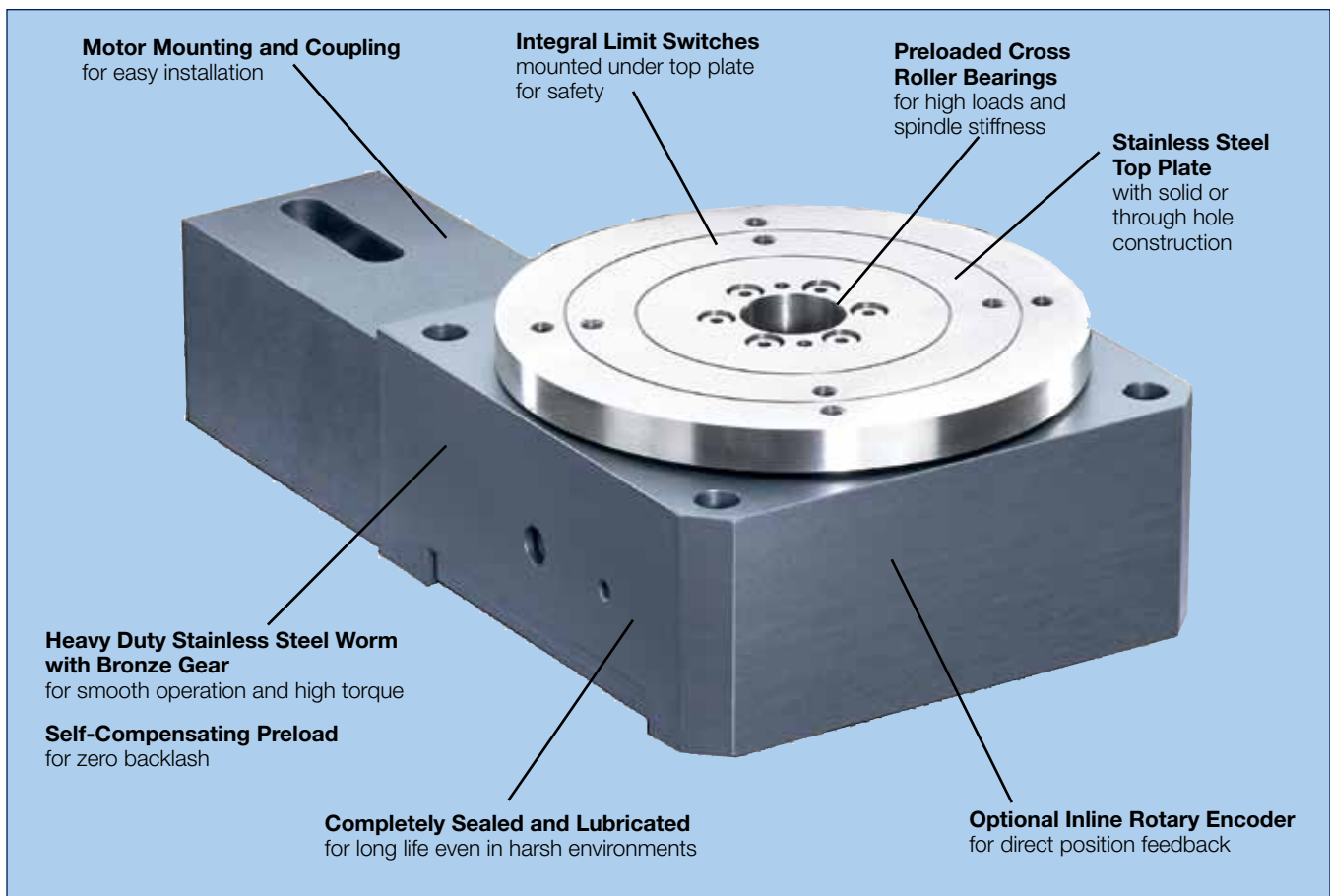
- Unique self-compensating preload to limit backlash
- Solid or thru bore construction
- Robust bearing design for high-load capacity
- Built-in limit switches
- Aluminum construction with stainless steel top plate

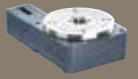
### When to Use

- High accuracy
- High loads
- Compact
- High stiffness

### Applications

- Electronic assembly
- Fiber optics
- Medical
- Packaging
- Pharmaceutical
- Robotics
- Semiconductor





## Rotary Series Specifications



Screw Driven  
Tables

### Performance Specifications

Model No.	Axial Capacity		Perpendicular Capacity			
	(kg)	(lb)	@ 25 mm		@150 mm	
	(kgf)	(lbf)	(kgf)	(lbf)	(kgf)	(lbf)
R100M	100	220	22	48	7	15
R150M	400	880	88	194	33	73
R200M	600	1320	200	440	85	187
R300M	1000	2220	325	715	160	352

Model No.	Worm Gear Ratio	Unidirectional Repeatability <sup>(1)</sup> (arc-min)	Peak Output Torque @100 RPM Input		Peak Output Speed (RPM)	Weight		Inertia	
			(Nm)	(in-lb)		(kgf)	(lbf)	gm-cm sec <sup>2</sup>	oz-in sec <sup>2</sup>
R100M	60:1	0.2	8	70.8	30	2.3	5.0	0.0057	0.0000784
R150M	72:1	0.2	25	221	30	6.0	13.0	0.055	0.00076
R200M	72:1	0.2	55	487	30	15.0	33.0	0.148	0.00210
R300M	90:1	0.2	75	664	30	35.0	77.0	0.368	0.00516

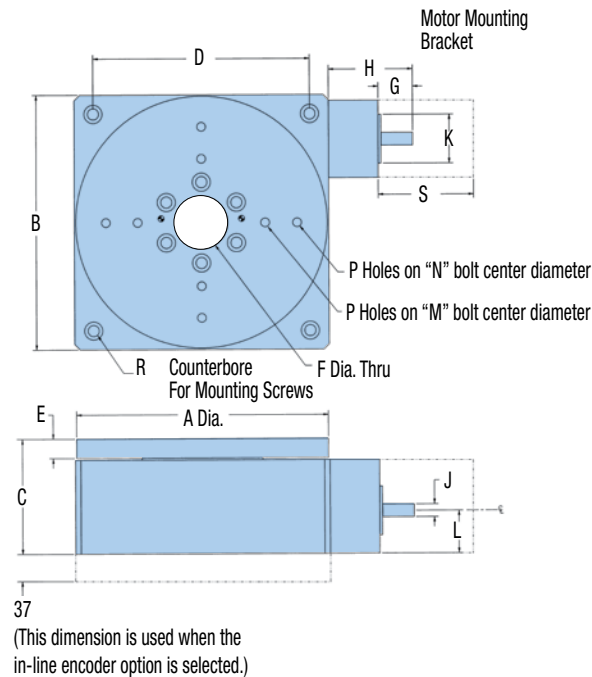
### Accuracy Specifications<sup>(1)</sup>

Model No.	Main Bearing Runout (microns)	Wobble (arc-min)	Positional Accuracy <sup>(1)</sup> (arc-min)	Bidirectional Repeatability <sup>(1)</sup> (arc-min)	Maximum Running Torque (Unloaded at 2 rps)	
	(microns)				(Nm)	(oz-in)
R100M	±15	±0.5	5	0.5	0.141	20
R150M	±20	±0.5	3	0.5	0.177	25
R200M	±25	±0.5	3	0.5	0.212	30
R300M	±30	±0.5	3	0.5	0.247	35

(1) Accuracy and repeatability are based on stage mounted to a flat granite surface and measured at 25 mm above the center of the stage.

Rotary Series Dimensions

Dimensions (mm)



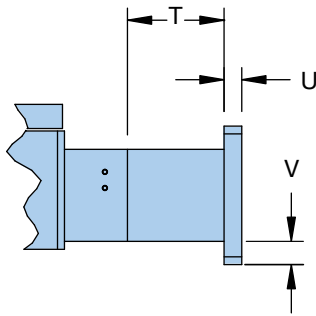
Model No.	A		B		C		D		E	
	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
R100M	98.5	3.88	100	3.94	55	2.16	85	3.35	8	0.32
R150M	147.6	5.81	150	5.90	75	2.95	125	4.92	11	0.43
R200M	197.7	7.78	200	7.87	90	3.54	170	6.70	15	0.59
R300M	297.7	11.72	300	11.81	108	4.25	270	10.63	16	0.63

Model No.	F		G		H		J		K	
	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
R100M	12	0.47	15	0.59	45	1.77	5	0.197	18	0.709
R150M	25.5	1.00	27	1.06	66	2.60	10	0.394	38.1	1.50
R200M	38	1.50	27	1.06	66	2.60	10	0.394	38.1	1.50
R300M	51	2.00	39	1.53	113	4.45	12	0.472	73	2.875

Model No.	L		M		N		P	R	S		Stage Weight	
	(mm)	(in)	(mm)	(in)	(mm)	(in)	Tap	CBoRe	(mm)	(in)	(kg)	(lb)
R100M	21	0.83	45	1.772	75	2.953	M5 x 0.8	M5	38.1	1.50	1.8	3.97
R150M	30.1	1.18	100	3.937	125	4.921	M6 x 1	M6	60.2	2.37	5	11
R200M	33.5	1.32	100	3.937	150	5.905	M8 x 1.25	M8	60.2	2.37	13	28.66
R300M	44.2	1.74	150	5.905	250	9.843	M8 x 1.25	M8	73.1	2.88	29	63.93

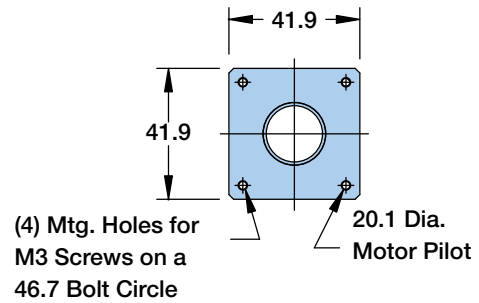
Rotary Table Motor Block Dimensions

Dimensions (mm)

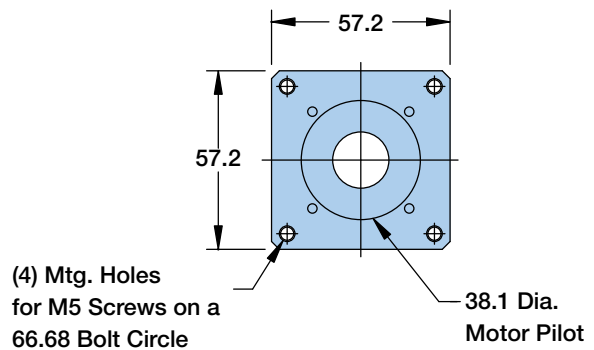


Rotary Stage Size	Motor Size	T		U		V	
		mm	in	mm	in	mm	in
R100M	BE16 M16	47	1.85	—	—	—	—
	LV/HV23 M22 BE23 M23	47	1.85	6	0.24	7.6	0.3
R150M	BE16 M16	55	2.17	—	—	—	—
	LV/HV23 M22 BE23 M23	51	2.01	—	—	—	—
R200M	LV/HV23 M22	51	2.01	—	—	—	—
	BE23 M23	62	2.44	—	—	—	—
R300M	BE23 M23	62	2.44	—	—	—	—
	BE34 M34	60	2.36	11	0.43	9.5	0.37
R300M	LV/HV23 M22	75	2.95	—	—	—	—
	BE23 M23	75	2.95	—	—	—	—
	BE34 M34	73	2.87	—	—	—	—

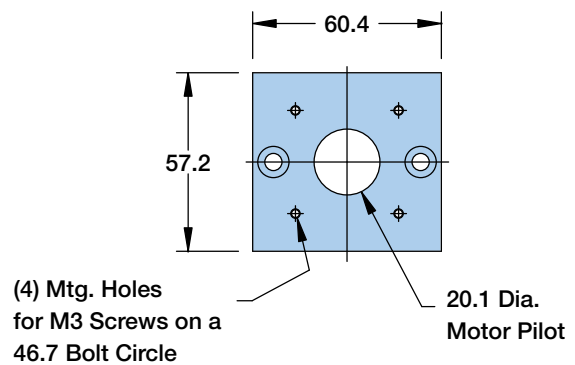
R100-BE16



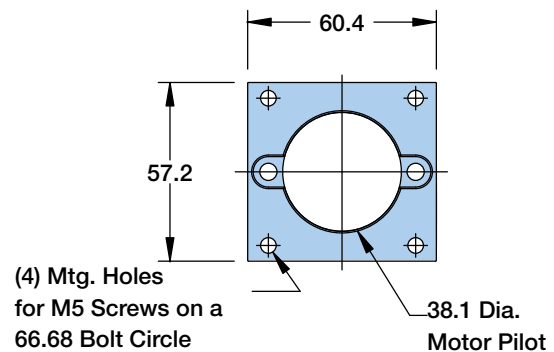
R100-LV/HV23 & BE23



R150-BE16



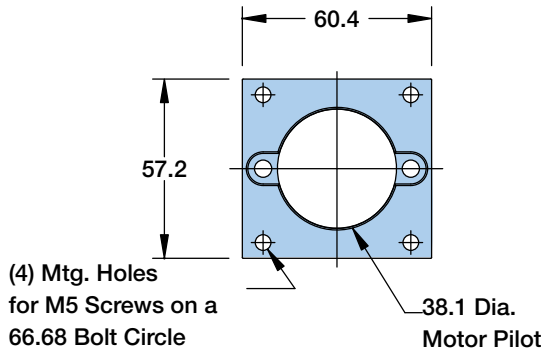
R150-LV/HV23 & BE23



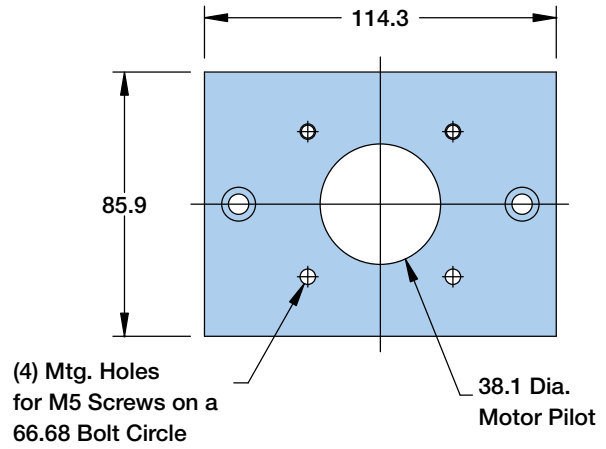
**Rotary Table Motor Block Dimensions**

Dimensions (mm)

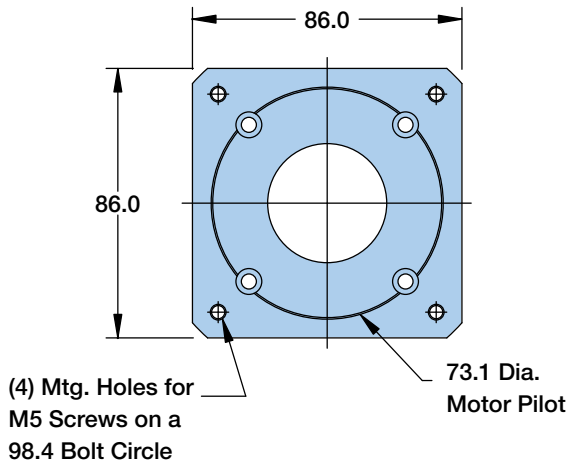
**R200-LV/HV23 & BE23**



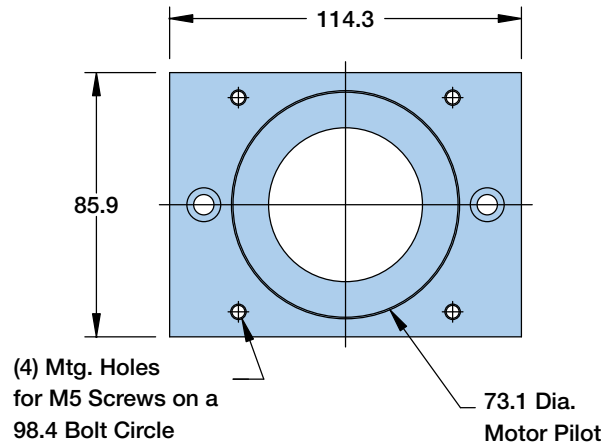
**R300-LV/HV23 & BE23**

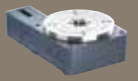


**R200-BE34**



**R300-BE34**





Fill in an order code from each of the numbered fields to create a complete model order code.

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

**Order Example:**

**R 150M 7 MP2 C04 L1H1 E0 R1**

**① Series**

**R** Worm Gear Rotary Series

**② Metric Square Width**

**100M** 100 mm  
**150M** 150 mm  
**200M** 200 mm  
**300M** 300 mm

**③ Gear Ratio**

**6** 60:1 (R100)  
**7** 72:1 (R150 and R200)  
**9** 90:1 (R300)

**④ Motor Mounting**

**M00** No motor block included  
**M16** Motor block for Parker BE16(1,2,3 stack)  
**M22** Motor block for Parker LV/HV23, SM23(1,2,3)  
**M23** Motor block for Parker BE23(1,2,3 stack)  
**M34** Motor block for Parker BE34 motors  
**MP1** Including motor and mount with BE163CJ-NPSN  
**MP2** Including motor and mount with BE233FJ-NSPN  
**MP3** Including motor and mount with HV233-02-10

**⑤ Coupling Code**

**C00** No coupling included  
**C01** 0.1875 inch coupling included  
**C02** 5 mm coupling included  
**C03** 0.250 inch coupling included (for BE16, LV/HV23)  
**C04** 0.375 inch coupling included (for BE23/SM23(1,2,3))  
**C05** 8 mm coupling included  
**C06** 9 mm coupling included  
**C07** 11 mm coupling included  
**C08** 0.500 inch coupling included (for BE34 motors)  
**C09** 14 mm coupling included  
**C10** 16 mm coupling included

**⑥ Limits Switches**

**L0H0** No Home or Limit Sensors included  
**L0H1** 1 normally open NPN home sensor included  
**L1H0** 2 normally closed NPN limit sensors included  
**L1H1** 1 home and 2 limit sensors included

**⑦ Encoder in Line with Top Plate**

**E0** No encoder included  
**E1** 2000 line in-line rotary encoder included

**⑧ Environment**

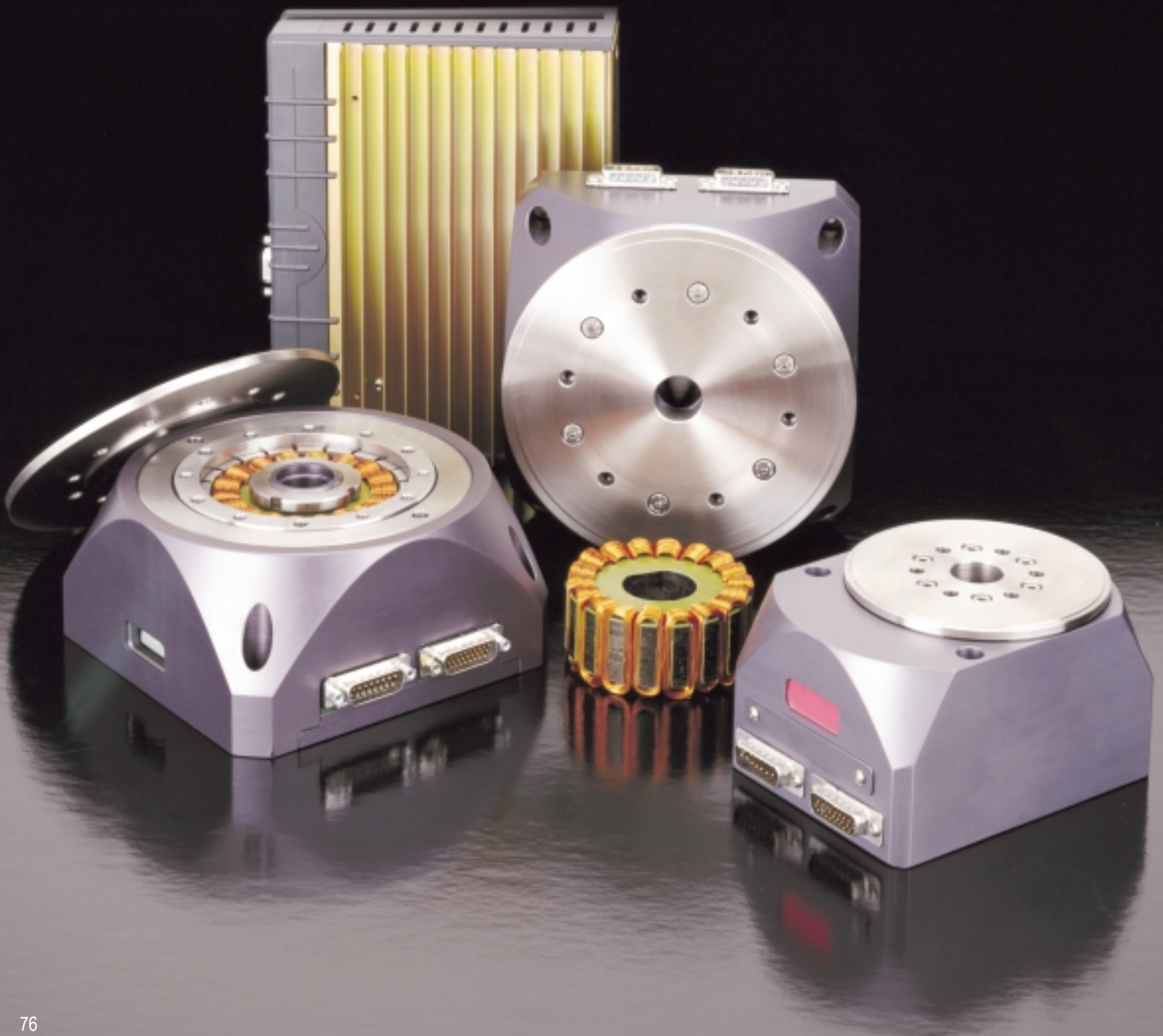
**R1** Standard environmental protection  
**R2** Cleanroom preparation included to class XX(TBD)

Screw Driven  
Tables



## ***Rotary* Series: Direct Drive Precision Stages**

Bayside's Direct Drive Rotary Stages feature a robust construction and high performance in a compact package, providing smooth, near frictionless motion with zero backlash.





## Performance Specifications

Model No.	Axial Capacity		Perpendicular Capacity @ Radius	Continuous Output Torque		Peak Output Torque		Maximum Output Speed <sup>(1)</sup> (RPM)
	(kgf)	(lb)		(Nm)	(in lb)	(Nm)	(in lb)	
R100D	75	165.3	20kgf @ 50mm	0.65	5.75	1.96	17.34	700
R150D	150	330.6	75kgf @ 75mm	4.00	35.4	12.00	106.2	500
R200D	250	551.1	150kgf @ 100mm	7.00	61.95	21.00	185.85	300

Model No.	Radial Runout @ øH (microns)	Axial Runout @ øK (microns)	Wobble @ Axis of Rotation (arc sec)	Inertia		Stage Weight	
				(gm cm sec <sup>2</sup> )	(oz in sec <sup>2</sup> )	(kg)	(lb)
R100D	20	18	60	14.2	0.197	2.2	4.85
R150D	26	23	45	86.4	1.200	5.8	12.79
R200D	36	30	30	338.0	4.695	10.5	23.15

## Resolution Data

Model No.	R100D	R150D	R200D
Total Number of counts/rev <sup>(2)</sup>	472,000	632,000	944,000
Frequency at Max Speed <sup>(2)</sup> (Mhz)	5.5	5.2	4.7
Resolution after x4 (arc sec)	2.7458	2.0506	1.3728
Repeatability after x4 (arc sec)	± 8.4	± 6.15	± 4.1

(1) Maximum speed may be limited by input frequency response of controller or drive.

(2) Post quadrature (includes 10x interpolation and 4x of control)

## Motor Specifications

Model No.	Voltage Constant K <sub>E</sub> (V/kRPM)	Torque Constant K <sub>T</sub>		Resistance R (ohms@ 25°C)	Inductance L (mH)
		(Nm/amp)	(in lb/amp)		
R100D	75	0.72	6.37	59.9	12
R150D	210	2	17.7	11.4	15.5
R200D	210	2	17.7	3.72	4.0

Model No.	Rated Voltage (V)	I <sub>cont</sub> (amps)	I <sub>peak</sub> (amps)	Logic Voltage (V/amp)	Pole Count
R100D	300	0.9	2.72	5V @ 600 ma	8
R150D	300	2.0	6.0	5 V @ 600 ma	20
R200D	300	3.5	10.5	5 V @ 600 ma	32





## ▶ **Rotary Series:** **Direct Drive Precision Stages**

### **When to Use:**

- ▶ Precision rotary motion
- ▶ ZERO backlash
- ▶ Compact
- ▶ Rugged

### **Applications:**

- ▶ Electronic assembly
- ▶ Fiber Optics
- ▶ Medical
- ▶ Packaging
- ▶ Pharmaceutical
- ▶ Robotics
- ▶ Semiconductor

### **High Performance in a Compact Package**

Bayside's Direct Drive Rotary Stage, featuring an integral brushless DC servomotor, has several distinct advantages over traditional worm gear-driven stages. The elimination of the worm gearing offers the ability to reduce wear with zero backlash while exhibiting near frictionless motion.

Its high positioning accuracy, solely based on the stage's encoder, provides repeatability within  $\pm 2$  encoder counts, with resolutions ranging to 0.5 arc seconds. The RD Direct Drive features speeds up to 500 RPM with significant torque capability.

In addition, there are three absolute programmable position reply outputs, plus a three-digit display, indicating absolute position in one degree increments.

2

#### **Robust bearing design**

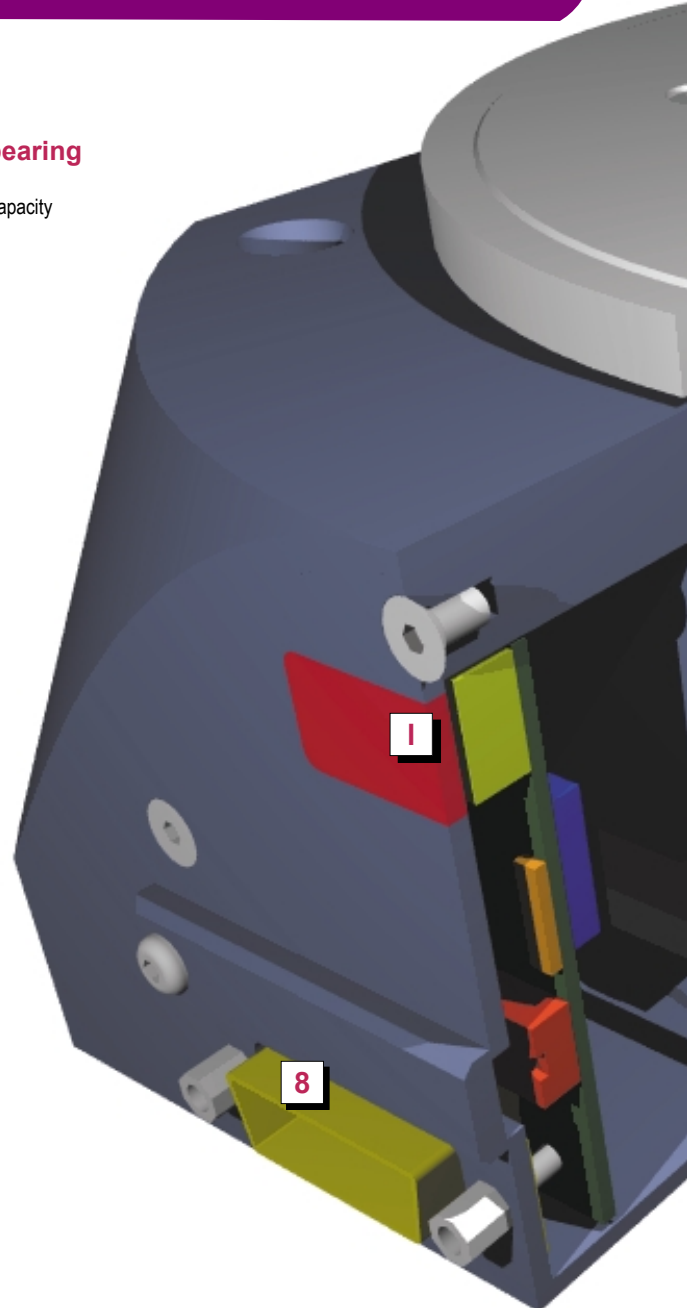
for high load capacity

1

#### **Display**

indicates position in one degree increments

8





3

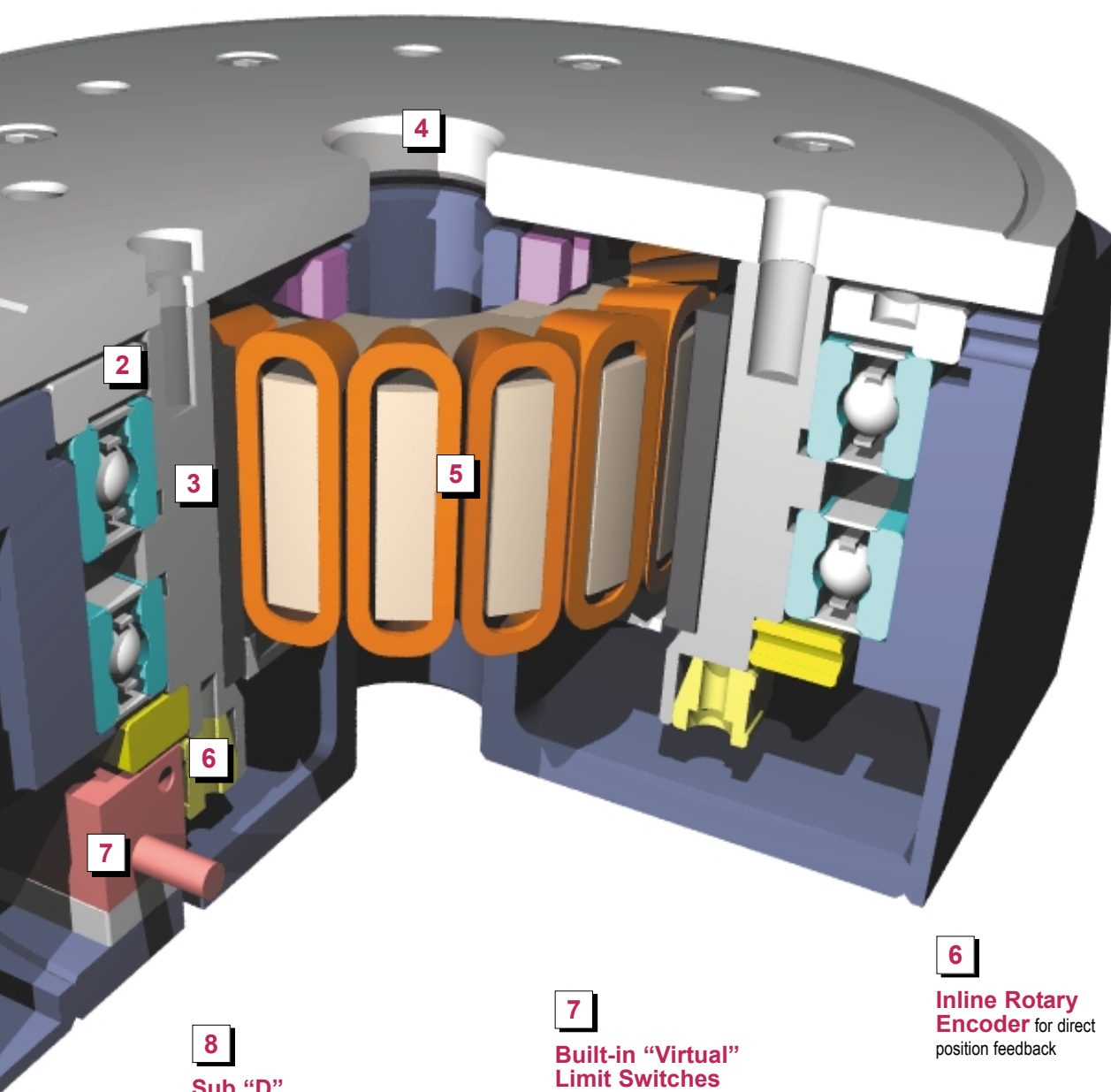
### Rotor / Shaft

motor rotor and top plate shaft  
as one piece construction for  
high stiffness

4

### Stainless Steel Top Plate

precision ground for  
accurate mounting



Linear & Rotary  
Positioning Stages

5

### Integrated Brushless Motor

unique design with high copper  
slot and rare earth magnet for  
maximum torque efficiency

6

**Inline Rotary  
Encoder** for direct  
position feedback

7

### Built-in "Virtual" Limit Switches

for high positioning accuracy

8

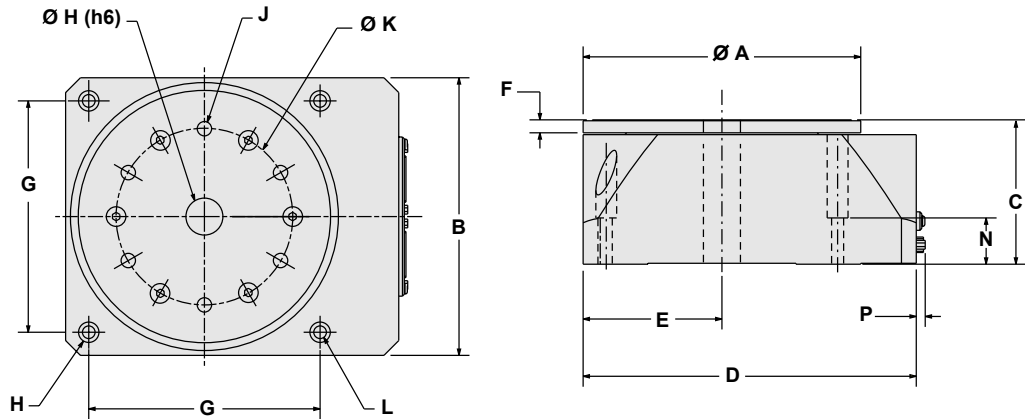
### Sub "D" connectors

for "plug & play" operation  
and easy hook-up.



# Rotary Series: Direct Drive Precision Stages

## Dimensions



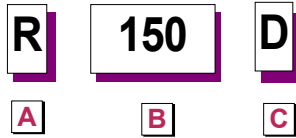
Model No.	A		B		C		D		E		F		G	
	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
R100D	100	3.94	100	3.94	75	2.95	130	5.12	50	1.96	5	0.196	85	3.34
R150D	150	5.9	150	5.9	78	3.07	180	7.08	75	2.95	7	0.275	125	4.92
R200D	200	7.87	200	7.87	100	3.94	230	9.05	100	3.94	10	0.393	160	6.29

Model No.	H		J	K		L		M		N		P	
	(mm)	(in)	Tap	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
R100D	20	0.787	M5	60	2.36	5.5	0.216	9.5	0.374	25	0.984	5	0.196
R150D	20	0.787	M6	95	3.74	6.5	0.255	11.2	0.440	25	0.984	5	0.196
R200D	30	1.18	M8	125	4.92	8.5	0.334	14.0	0.551	25	0.984	5	0.196

# Rotary Series: Direct Drive Precision Stages How to Order



Order  
Numbering  
Example:



<b>A</b>	<b>STAGE SERIES</b>
R	Direct Drive Rotary

<b>B</b>	<b>MODEL</b>
100	100 mm
150	150 mm
200	200 mm

<b>C</b>	<b>DRIVE</b>
D	Direct Drive

Linear & Rotary  
Positioning Stages

## Cable Options:

### Mating Power Cable

Part Number	Length	Used With
10963018	3 meters	Flying Leads
10963067	8 meters	Flying Leads

### Mating Sensor Cable

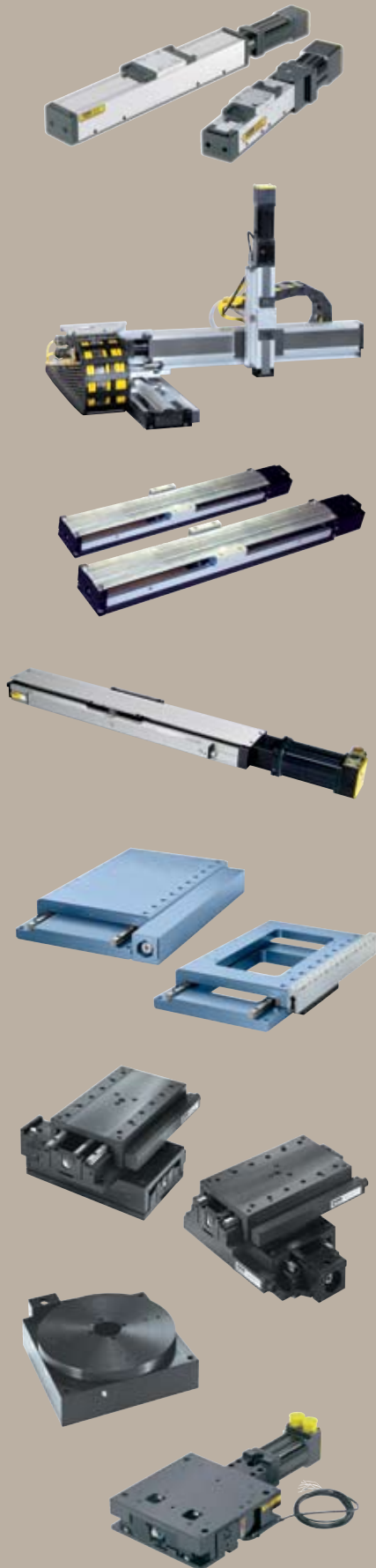
Part Number	Length	Used With
10963019	3 meters	Flying Leads
10963137	3 meters	i-Drive
10963066	8 meters	Flying Leads
10963138	8 meters	i-Drive
10963136 <sup>(1)</sup>	—	i-Drive / Controller

(1) NOTE: When an external controller is used in a closed loop mode an additional sensor cable, part number 10963136, is required.

Specifications are subject to change without notice.

## How to Order

Direct Drive Rotary Stages are supported by a worldwide network of offices and local distributors. Call **1-800-305-4555** for application engineering assistance or for the name of your local distributor. Information can also be obtained at [www.baysidemotion.com](http://www.baysidemotion.com).



# Screw Driven automation tables

Precise multi-axis positioning systems play an integral part in today's semiconductor, computer peripheral, solar power, flat panel, life sciences, lab automation, biomedical and electronics industries. The demands for tighter specifications, improved throughput and consistent quality have become increasingly stringent. Because of the complexity associated with these systems, many manufacturers insist on a single source supplier to eliminate multiple vendor design incompatibilities and delivery conflicts. With over forty years' experience as a global leader in the development of products and technology, Parker provides the most advanced, easy to integrate high-precision electromechanical systems.

## Contents

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<b>80-89</b>	404XE Series Positioners
<b>90-111</b>	HD Series Industrial Linear Positioners
<b>112-127</b>	Ultra Series Precision Stages
<b>128-133</b>	100CT & 800CT Series Tables
<b>134-137</b>	<b>200RT Series Rotary Tables</b>
<b>138-141</b>	R Series Worm Drive Rotary Tables
<b>142-145</b>	ZP200 Series Vertical Lift "Wedge" Table
<b>146-150</b>	Additional Products

## 200RT Series Rotary Tables

### Features

- Highly repeatable indexing (12 arc-sec)
- Load capacities to 200 lbs
- 360 degrees continuous travel
- Performance tested worm gear drive
- Selectable table sizes and drive ratio
- Dual race angular contact support bearing

### Quality Design and Construction

The 200RT Series Rotary Tables are designed for precise motor-driven rotary positioning and indexing. These tables are designed to function independently or in conjunction with linear tables used in the high-precision and precision automation applications. Their low profile design minimizes stack height in multi-axis configurations and enables them to fit in many places where other motorized rotary devices cannot.

Models are available in 5, 6, 8, 10, or 12 inch diameters and are offered with four gear ratios making it convenient to match size, speed, and load requirements. They can be selected in either English or metric mounting. They are found in virtually all industries where intermittent part indexing, part scanning, skew adjustment, or precise angular alignment is required.

At the heart of these tables is a rugged main support bearing which is comprised of two preloaded angular contact bearing races. It is designed for high load capacity and smooth, flat rotary motion. The drive is a precision worm gear assembly which is preloaded to remove backlash. The top and base are constructed of high quality aluminum with an attractive black anodized finish. The top and bottom mounting surfaces are precision ground to assure flatness.

### High Performance Direct Drive Rotary Tables

Parker's DM1004 direct drive brushless servo motor tables offer an alternative to the 200RT series for high throughput precision indexing.

Visit our website for complete information.



### Options and Accessories

#### Motor Couplings

A wide range of coupling styles and bores are available to match motor requirements. Bellows-style couplings, offering the lowest windup are required for all precision grade tables, while the aluminum and stainless steel helix couplers offer good windup characteristics and high durability at a lower cost.

#### Motor Mounts

The motor mount is designed for an industry standard NEMA 23 motor flange and a maximum shaft length of 0.85".

#### Home Sensor

The Home sensor provides a fixed reference point to which the table can always return. This is a mechanical reed switch which is mounted the body of the rotary table and is activated by a magnet imbedded on the table top.

#### Rotary Encoders

High resolution, high accuracy rotary encoders can be added for direct positional feedback of the table top position. Rotary encoders can be mounted directly to the base of the rotary table. The encoder input shaft is then coupled directly to the rotary table top, supplying positional feedback of the table top, with no drive train errors. They can be supplied with or without a base housing which encloses and protects the encoder.

#### Seals

Custom designed sealed units are offered to prevent excessive wear or internal damage resulting from dust and contaminates.

#### Motors, Drives & Controls

Micro-step motors with drives are available for direct mounting to the rotary tables. Motion controllers can also be added to provide systems with seamless connectivity.



## 200RT Common Characteristics

	Units	Precision	Standard
Positional Repeatability (unidirectional)	arc-min	0.2	0.5
Duty Cycle	%	50	50
Table Runout (Max.)	in (µm)	±0.001 (±25)	±0.003 (±75)
Concentricity	in (µm)	±0.001 (±25)	±0.005 (±127)
Wobble	arc-sec	30	60
Input Velocity (Max.)	revs./sec.	15	15

## Travel Dependent Characteristics

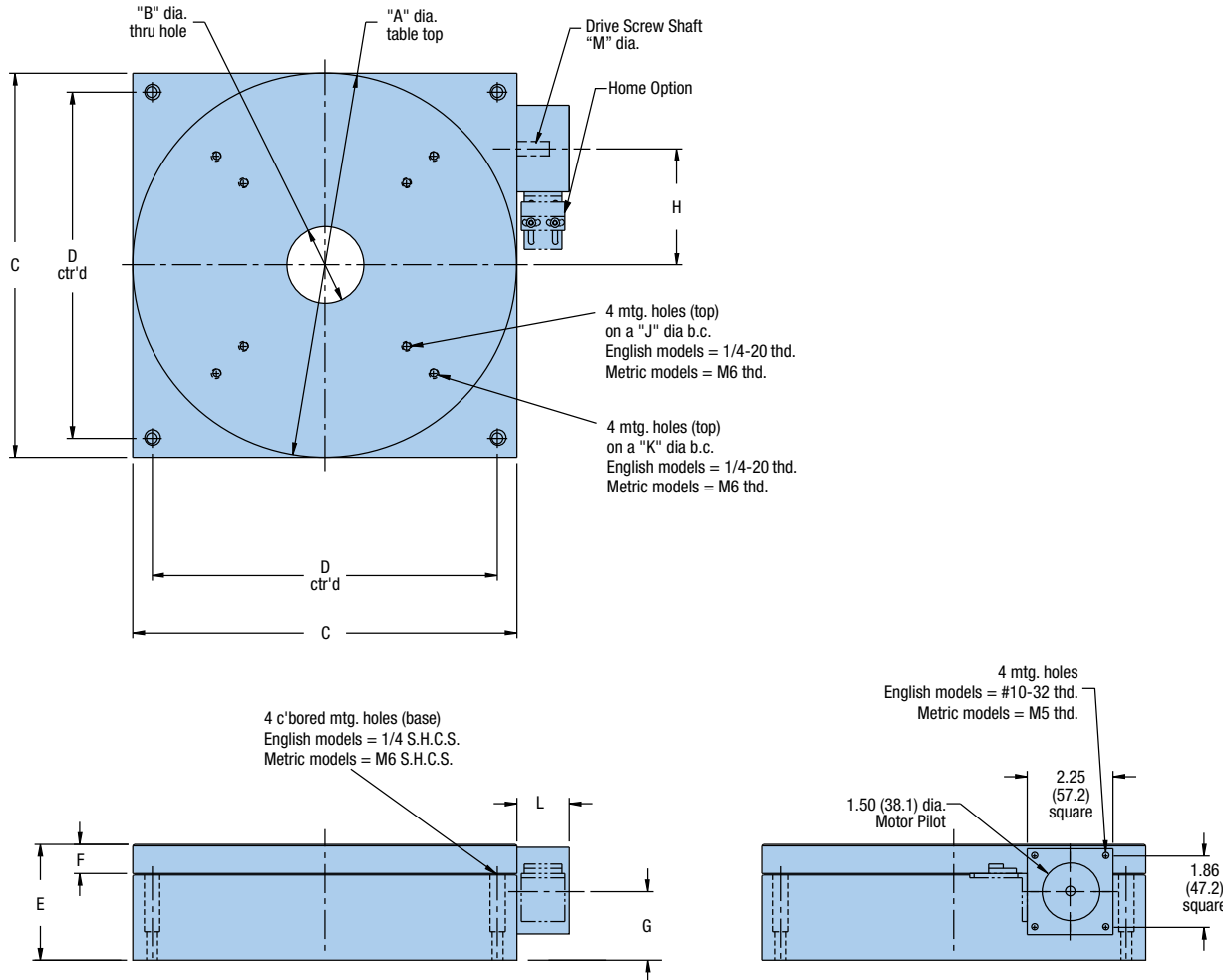
Table Diameter inches	Drive Ratio	Load Capacity lbs (kgf)	Accuracy arc-min		Output Torque in-lb (N-m)	Inertia 10 <sup>-3</sup> -oz.-in-sec <sup>2</sup> (10 <sup>-6</sup> kg-m-sec <sup>2</sup> )	Input Breakaway Torque (max.) oz.-in (N-m)	Running Torque (max) oz-in (N-m)	Weight lb (kgf)	
			Precision	Standard					Standard Top	Total
5.0	180:1	25 (11)	3	10	25 (2.8)	0.14 (0.102)	22 (0.16)	20 (0.13)	0.67 (0.3)	6.0 (2.7)
5.0	90:1	25 (11)	3	10	25 (2.8)	0.15 (0.112)	22 (0.16)	20 (0.13)	0.67 (0.3)	6.0 (2.7)
5.0	36:1	25 (11)	5	12	25 (2.8)	0.24 (0.173)	22 (0.16)	20 (0.13)	0.67 (0.3)	6.0 (3.6)
6.0	180:1	150 (68)	3	10	40 (4.5)	0.16 (0.112)	22 (0.16)	20 (0.13)	0.91 (0.42)	8.0 (2.7)
6.0	90:1	150 (68)	3	10	40 (4.5)	0.20 (0.132)	22 (0.16)	20 (0.13)	0.91 (0.42)	8.0 (3.6)
6.0	45:1	150 (68)	5	12	40 (4.5)	0.29 (0.204)	22 (0.16)	20 (0.13)	0.91 (0.42)	8.0 (3.6)
8.0	180:1	150 (68)	3	10	40 (4.5)	0.24 (0.163)	28 (0.19)	25 (0.18)	2.23 (1.01)	15.0 (6.8)
8.0	90:1	150 (68)	3	10	40 (4.5)	0.66 (0.459)	28 (0.19)	25 (0.18)	2.23 (1.01)	15.0 (6.8)
8.0	36:1	150 (68)	5	12	40 (4.5)	0.90 (0.642)	28 (0.19)	25 (0.18)	2.30 (1.05)	15.0 (6.8)
10.0	180:1	200 (90)	3	10	190 (21.5)	0.74 (0.530)	33 (0.22)	30 (0.21)	5.26 (2.30)	29.0 (13.1)
10.0	90:1	200 (90)	3	10	190 (21.5)	1.02 (0.734)	33 (0.22)	30 (0.21)	5.26 (2.30)	29.0 (13.1)
10.0	45:1	200 (90)	5	12	190 (21.5)	2.13 (1.53)	33 (0.22)	30 (0.21)	5.26 (2.30)	29.0 (13.1)
12.0	180:1	200 (90)	3	10	190 (21.5)	0.99 (0.713)	33 (0.22)	30 (0.21)	7.67 (3.49)	32.0 (14.5)
12.0	90:1	200 (90)	3	10	190 (21.5)	1.59 (1.12)	33 (0.22)	30 (0.21)	7.67 (3.49)	32.0 (14.5)
12.0	45:1	200 (90)	5	12	190 (21.5)	3.83 (2.75)	33 (0.22)	30 (0.21)	7.67 (3.49)	32 (14.5)

NOTE: For moment load calculations, refer to the technical section of Parker's web site [www.parkermotion.com](http://www.parkermotion.com)

Screw Driven Tables

**200RT Series Dimensions**

Dimensions - inches (mm)



**English Units**

A	B	C	D	E		F		G	H	J	K	L	M
				Standard (T2)	Option (T3)	Standard (T2)	Option (T3)						
5.0	1.0	5.0	4.0	1.8	2.42	0.38	1.00	1.11	1.66	3.0	4.0	1.38	0.188
6.0	1.75	6.0	5.0	2.0	2.62	0.38	1.00	1.23	2.04	4.0	5.0	1.38	0.25
8.0	1.75*	8.0	6.0	2.5	3.12	0.50	1.00	1.57	2.04	4.0	6.0	1.38	0.25
10.0	2.0	10.0	9.0	3.0	3.62	0.75	1.00	1.81	3.03	6.0	8.0	1.38	0.25
12.0	2.0	10.0	9.0	3.0	3.62	0.75	1.00	1.81	3.03	8.0	10.0	2.38	0.25

\*On the 8.0" (203,2) diameter table with 36:1 ratio, this dimension is 1.0" (25,4).

**Metric Units**

A	B	C	D	E		F		G	H	J	K	L	M
				Standard (T2)	Option (T3)	Standard (T2)	Option (T3)						
127.0	25.4	127.0	100	46.0	61.5	9.6	25.0	28.1	42.1	75	100	35	4.76
152.4	44.5	152.4	125	50.8	66.5	9.6	25.0	31.4	51.8	100	125	35	6.35
203.2	44.5*	203.2	175	63.5	79.2	12.7	25.0	39.8	51.8	100	150	35	6.35
254.0	50.8	254.0	225	76.2	91.9	19.0	25.0	45.9	76.9	150	200	35	6.35
304.8	50.8	254.0	225	76.2	91.9	19.0	25.0	45.9	76.9	200	250	60.4	6.35

\*On the 8.0" (203,2) diameter table with 36:1 ratio, this dimension is 1.0" (25,4).





Fill in an order code from each of the numbered fields to create a complete model order code.

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

**Order Example:** 2 08 01 RT M S H1 C1 M1 E1 T1

**① Series**

2

**② Table Diameter**

- 05 5 in, 125 mm
- 06 6 in, 150 mm
- 08 8 in, 200 mm
- 10 10 in, 250 mm
- 12 12 in, 300 mm

**③ Gear Ratio**

- 01 180:1, Available on all dia.
- 02 90:1, Available on all dia.
- 04 45:1, Available on 6", 10" and 12" dia. only
- 05 36:1, Available on 5" and 8" dia. only

**④ Table Style**

RT

**⑤ Mounting**

- E English
- M Metric (800CT only)

**⑥ Grade**

- S Standard
- P Precision

**⑦ Home**

- H1 No home switches
- H2 Magnetic home switches

**⑧ Motor Coupling**

- C1 No coupling
- C2 0.25 in bore, helix, aluminum
- C3 0.25 in bore, helix, stainless steel (not available on 205 model)
- C4 0.25 in bore, bellows, required for precision grade
- C5 0.375 in bore, helix, aluminum
- C6 0.375 in bore, helix, stainless steel (not available on 205 model)
- C7 0.375 in bore, bellows, required for precision grade

**⑨ Motor Mount**

- M1 23 frame size

**⑩ Encoder**

- E0 No encoder
- E8 Ring encoder – 314,880 post quad. counts/rev
- E9 Ring encoder – 3,148,800 post quad. counts/rev

**⑪ Table Top**

- T1 No top
- T2 Standard top
- T3 Oversized top (raises height to clear NEMA 23 motor)

Screw Driven Tables