

ROTARY INDEX DRIVES

Product Overview

You are currently viewing:



RDM Dial Indexers

Additional Indexing Products:



Servo Positioner
Rotary TableIN-GTB



RA Right Angle Drives IN-RA



RD HD Dial Indexers IN-RD



E-Series HD Drives IN-EHD



MDE/HDE Indexers IN-MDE



RSD Flexible Servo Drives .. IN-RSD



RGS/RGD
Shaft/Flange Drives IN-RGS



Parallel Shaft/
Flange Drives IN-PAR



RNG Easy Access
Dial Indexers IN-RNG



Rite-Link Conveyors IN-RLC



Table-Top Modular
Conveyors IN-TTC



Heavy Duty
Modular Conveyors IN-HDC



LPP Linear Part Handles IN-LPP



RPP Rotating Part Handlers .. IN-RPP



Overload Clutches IN-CLU



Custom Cams IN-CAM



Features:

The **CAMCO RDM Series Index Drive** is ideal for rotary dial applications with features including:

- Large output Mounting Surface supported by 4-point contact bearing offering superior thrust and moment capacity
- Large Center Thru Hole
- Low Profile
- Complete, Motorized Drive Packages
- Optional Output Overload Clutch

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RDM SERIES

Rotary Index Drive | How To Order

Base Model

80RDM w/ R180 reducer & 1/3 hp AC motor (220/440V)

601RDM w/ R180 reducer & 1/3 hp AC motor (220/440V)

902RDM w/ R225 reducer & 1 hp AC motor (220/440V)

1100RDM w/ KH47 reducer & 1-1/2 hp AC motor (220/440V)

1305RDM w/ 7300C reducer & 2 hp AC motor (220/440V)

1800RDM w/ 7400C reducer & 3 hp AC motor (220/440V)

Control

1 1 hp 120V 80RDM,601RDM & 902RDM only

2 1 hp 240V 80RDM,601RDM & 902RDM only

3 1 hp 440V 80RDM,601RDM & 902RDM only

4 2 hp 240V 1100RDM & 1305RDM only

5 2 hp 440V 1100RDM & 1305RDM only

6 3 hp 240V 1800RDM only

7 3 hp 440V 1800RDM only

Clutch

1 Standard detector plate

2 Detector plate with hole

Setting (in-lbs)

A 420

B 620

C 750

D 1150

E 1750

F 2950

G 4000

* Eg: For 601RDM

Motion

A 2 330

B 3 330

C 4 330

D 6 330

E 8 330

F 12 330

G 16 330

Index Mounting
(See Figure 3)

1

2

3

4

5

6

Reducer Ratio

1100RDM

A 15 15.86

B 20 19.58

C 25 24.06

D 30 29.37

E 40 39.61

F 50 48.95

G 60 56.83

H 15 --

Reducer Mounting
(See Figure 4)

A **J**

B **K**

C **L**

D **M**

E **N**

F **P**

G **R**

H **S**

Signal Switch

M Mechanical

D Double

P Proximity

Example: MR, MS, DR, DS, PR or PS

Note about signal switch options:

a) Mechanical is a single switch with cam.

b) Proximity option is a mounting bracket for 8 or 12 mm proximity switch. A proximity switch will not be supplied. Cam supplied as target.

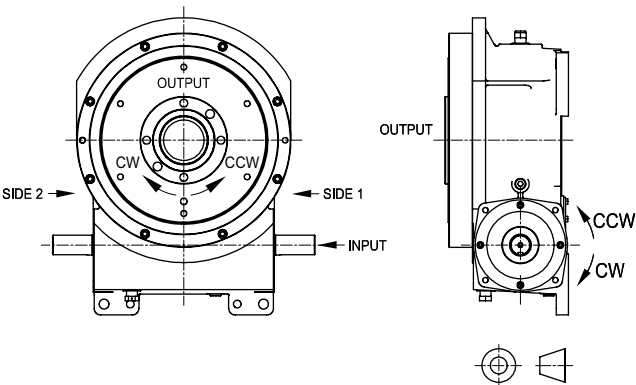
Signal Switch Side
(See Figure 2)

R Reducer

S Shaft

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.

Input Shaft Configuration/Rotation (Figure 1)



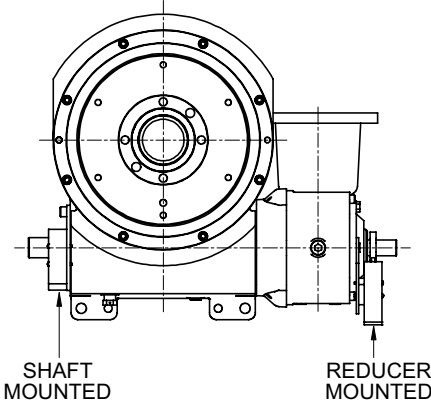
Relative Rotation for Right Hand Cam:

CW Input Side 1 CCW Output

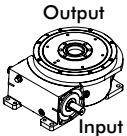
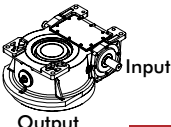
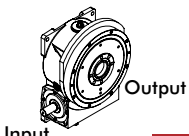
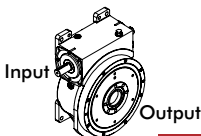
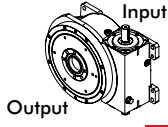
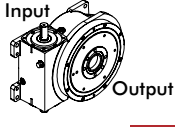
CCW Input Side 2 CCW Output

NOTE: Input can be driven in either direction

Signal Switch Mounting Position (Figure 2)



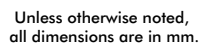
Rotary Index Drive | Input/Output Orientation (Figure 3)

OVOI (output vertical, over input)	OVUI (output vertical, under input)	OHOI (output horizontal, over input)	OHUI (output horizontal, under input)	H-S1-UP (output horizontal, side 1 up)	H-S2-UP (output horizontal, side 2 up)
 1	 2	 3	 4	 5	 6

Gear Reducer Mounting Positions (Figure 4)

Mounting "A"				Mounting "B"			
RD Worm		LD Worm		RD Worm		LD Worm	
SIDE 1							
Mounting "C"				Mounting "D"			
RD Worm		LD Worm		RD Worm		LD Worm	
SIDE 1							

Rotary Index Drive | Dimensions



Maximum Inertia x 1000 [lb-in²] for standard package							
Stops	Motion Time [seconds]						
	0.458	0.611	0.764	0.917	1.222	1.528	1.833
2	0	1	2	5	10	16	23
3	1	3	7	11	21	32	47
4	2	6	13	23	46	74	104
6	5	13	28	43	84	137	191
8	7	15	25	39	76	127	191
12	17	34	57	88	170	191	191
16	16	31	52	79	153	191	191
Reducer Ratio							
	15	20	25	30	40	50	60

Contact your DESTACO sales representative for more information.

Features

- R180 Reducer (Ratios from 15:1 to 60:1)
 - Double Extended Worm Shaft (Input)
 - Worm Shaft Handwheel
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (70 mm / 2.76 in. Diameter)
- 1/3 hp AC Drive Package with Inverter Duty Motor and IM-pAC AC Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam
- Universal Mounting Capability

Optional Accessories

- 1/3 hp DC Motor
- Varipak DC Motor Control (up to 30 cpm)
- Stationary Center Post
- Dual Cam and Limit Switch
- Electric Clutch-Brake
- Left Hand Cam

Output Load Capacity (loads carried during index):

Radial	755 lbs
Thrust/Axial	1,885 lbs
Moment	1,885 in-lb

Typical Application Dial Diameter:

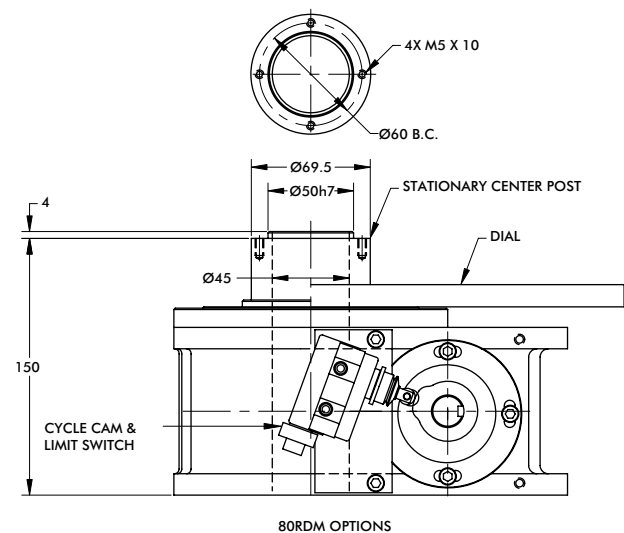
8 in. to 28 in.

Accuracy

±44 arcsec / ±.003" at 14" Radius

Repeatability

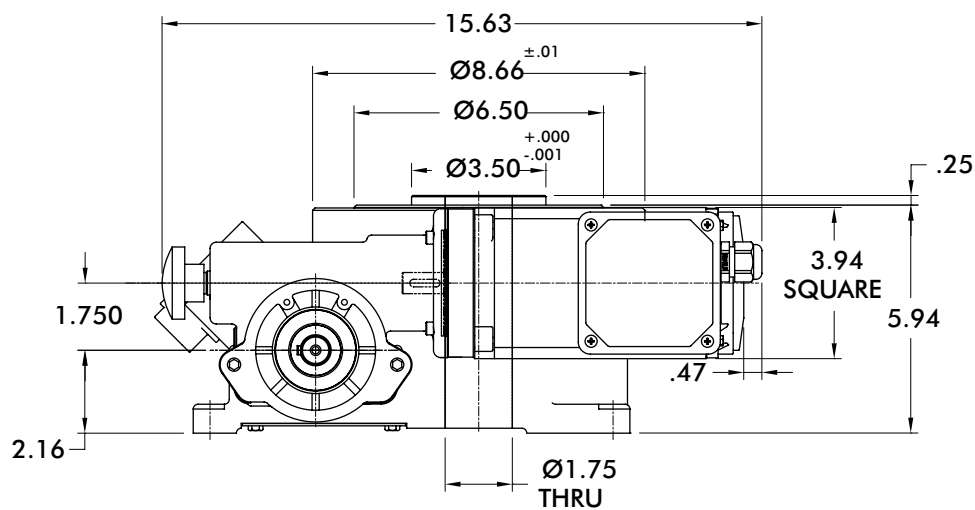
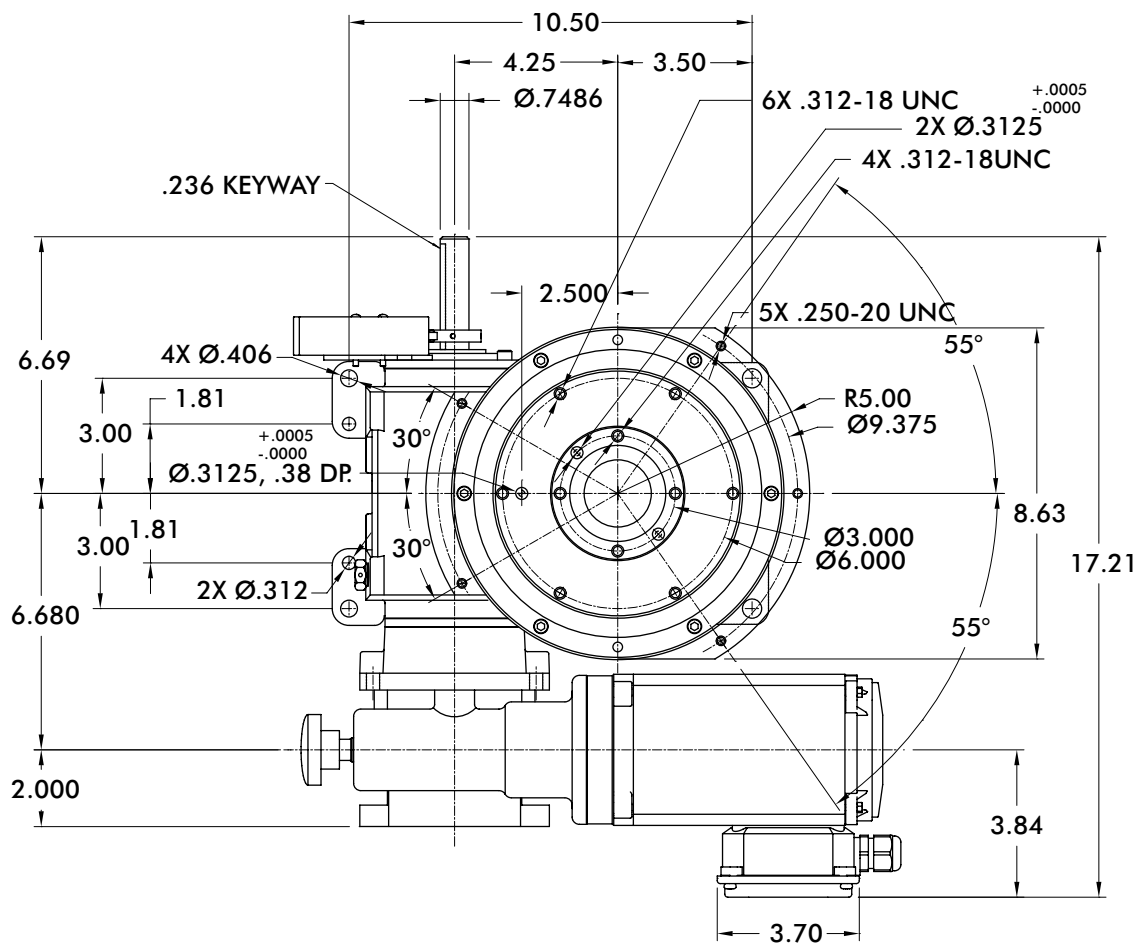
±11 arcsec / ±.0007" at 14" Radius



Unless otherwise noted,
all dimensions are in mm.

601RDM SERIES

Rotary Index Drive | Dimensions



Unless otherwise noted,
all dimensions are in inches.

Maximum Inertia x 1000 [lb-in²] for standard package							
Stops	Motion Time [seconds]						
	0.458	0.611	0.764	0.917	1.222	1.528	1.833
2	0	1	2	5	11	17	24
3	1	3	7	12	28	42	58
4	2	6	13	23	52	78	106
6	5	14	28	51	112	168	228
8	10	25	51	90	199	299	406
12	22	57	115	204	449	478	478
16	40	101	205	361	478	478	478
Reducer Ratio							
	15	20	25	30	40	50	60

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.

Features

- R180 Reducer (Ratios from 15:1 to 60:1)
 - Double Extended Worm Shaft (Input)
 - Worm Shaft Handwheel
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (1.75 in. Diameter)
- 1/3 hp AC Drive Package with Inverter Duty Motor and IM-pAC AC Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Output Load Capacity (loads carried during index):

Radial	945 lbs
Thrust/Axial	2,360 lbs
Moment	3,305 in-lb

Typical Application

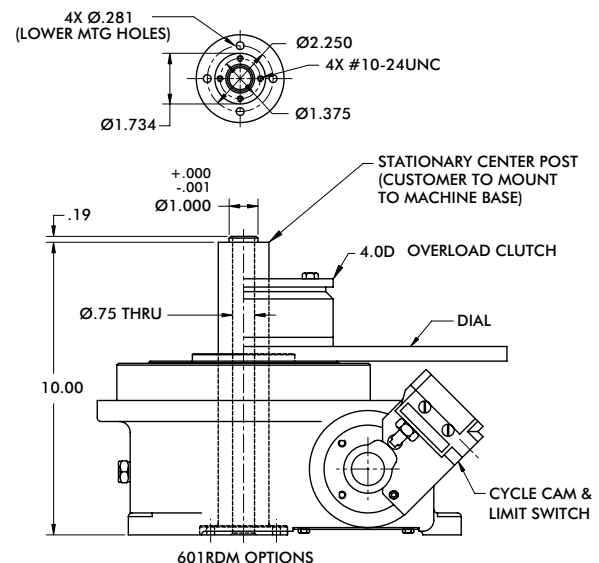
Dial Diameter: 12 in. to 36 in.

Accuracy ±39 arcsec / ±.003" at 18" Radius

Repeatability ±10 arcsec / ±.0009" at 18" Radius

Optional Accessories

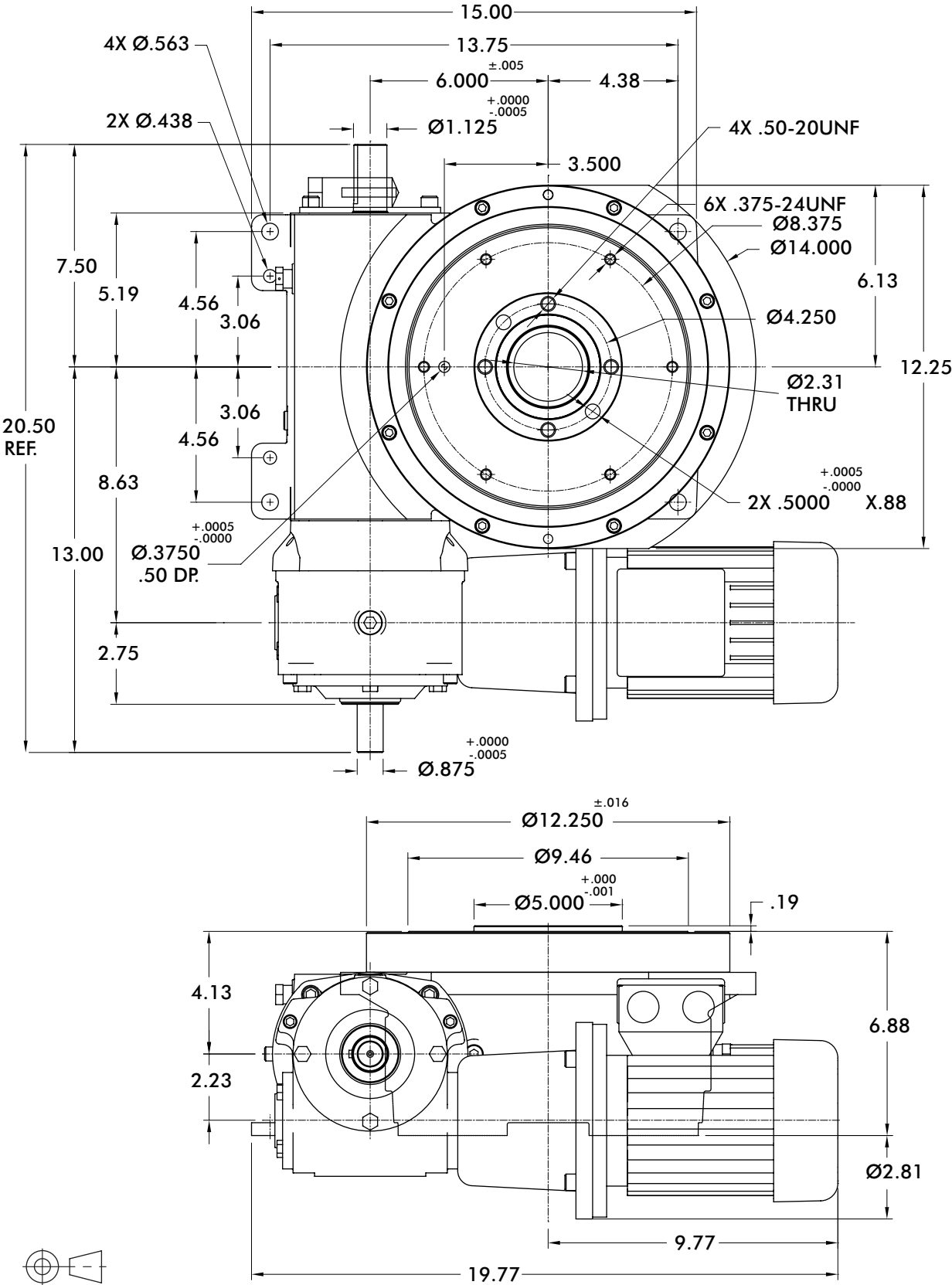
- 1/3 hp DC Motor
- Varipak DC Motor Control (up to 30 cpm)
- Output Overload Clutch model 4.0D
 - Available Settings (in-lbs): 420, 620, 750, 1150, 1750, 2940, 4000
- Stationary Center Post
- Dual Cam and Limit Switch
- Left Hand Cam
- Relief in Dwell for shot-pin applications



Unless otherwise noted,
all dimensions are in inches.

902RDM SERIES

Rotary Index Drive | Dimensions



Unless otherwise noted,
all dimensions are in inches.

Maximum Inertia x 1000 [lb-in ²] for standard package							
Stops	Motion Time [seconds]						
	0.458	0.611	0.764	0.917	1.222	1.528	1.833
2	1	3	7	12	26	40	55
3	4	11	23	41	84	126	174
4	8	20	41	73	150	226	310
6	18	44	90	158	323	485	667
8	32	80	160	282	575	864	1,187
12	73	181	338	487	865	1,352	1,948
16	130	313	506	728	1,295	2,024	2,914
Reducer Ratio							
	15	20	25	30	40	50	60

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.

Features

- R225 Reducer (Ratios from 15:1 to 60:1)
- Single Extended wormshaft (Standard)
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (2.25 in. Diameter)
- 1 hp AC Drive Package with Inverter Duty Motor and IM-pAC AC Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Output Load Capacity (loads carried during index):

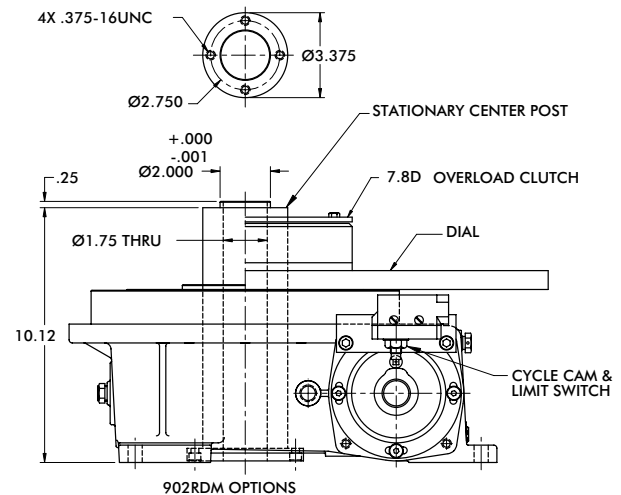
Radial	3,540 lbs
Thrust/Axial	7,000 lbs
Moment	21,620 in-lb

Typical Application

Dial Diameter:	20 in. to 48 in.
Accuracy	±27 arcsec / ±.003" at 24" Radius
Repeatability	±7 arcsec / ±.0008" at 24" Radius

Optional Accessories

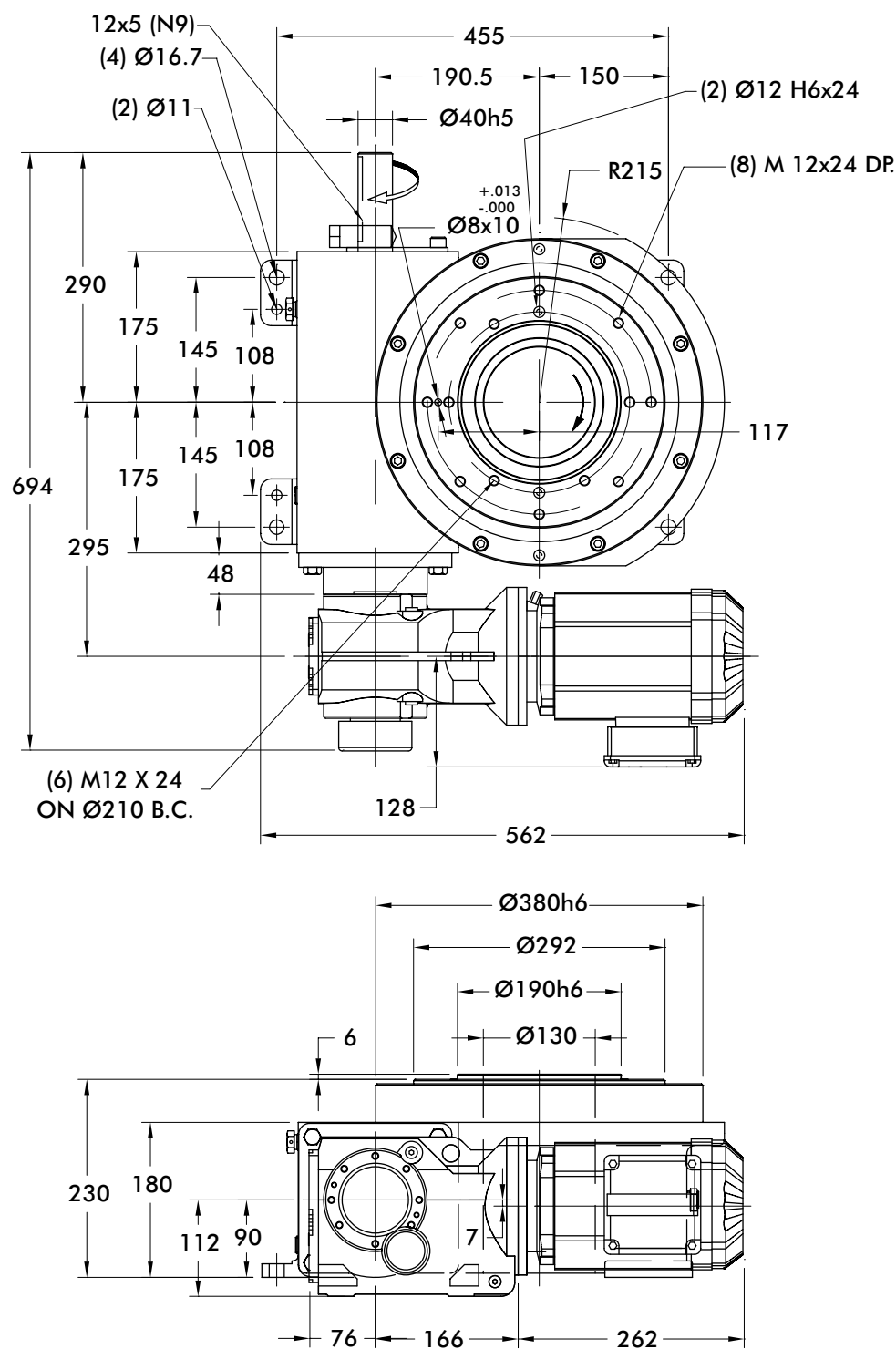
- 1 hp DC Motor
- Varipak DC Motor Control (up to 30 cpm)
- Output Overload Clutch model 7.8D
 - Available Settings (in-lbs): 1400, 1700, 2600, 3200, 4200, 5000, 7200, 10000
- Stationary Center Post
- Dual Cam and Limit Switch
- Base Riser Blocks
- Electric Clutch-Brake
- Left Hand Cam
- Relief in Dwell for shot-pin applications



Unless otherwise noted,
all dimensions are in inches.

1100RDM SERIES

Rotary Index Drive | Dimensions



Unless otherwise noted,
all dimensions are in mm.

Maximum Inertia x 1000 [lb-in²] for standard package							
Stops	Motion Time [seconds]						
	0.458	0.611	0.764	0.917	1.222	1.528	1.833
2	1	5	11	22	60	117	177
3	6	13	27	52	137	265	400
4	13	27	55	104	270	521	785
6	30	61	120	227	582	1,122	1,688
8	55	111	216	405	1,037	1,995	2,705
12	126	251	488	913	2,335	4,293	5,786
16	225	449	869	1,414	2,659	4,061	5,474
Reducer Ratio							
	15.86	19.58	24.06	29.32	39.61	48.95	56.83

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.

Features

- KH47 Reducer and AC Motor with Optional Brake
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (130 mm / 5.1 in. Diameter)
- AC drive package with Inverter Duty Motor and Inverter Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Output Load Capacity (loads carried during index):

Radial	3100 lbs
Thrust/Axial	8000 lbs
Moment	28,674 in-lbs

Typical Application Dial Diameter:

20 in. to 60 in.

Accuracy

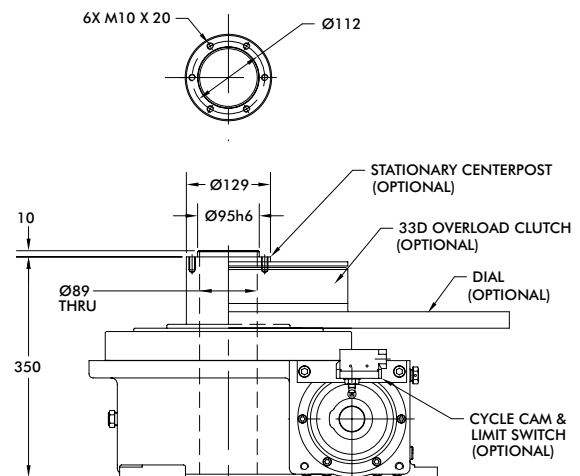
±22 arcsec / ±.003" at 30" Radius

Repeatability

±5 arcsec / ±.0008" at 30" Radius

Optional Accessories

- 7300C Reducer (Ratios from 15:1 to 60:1)
- 1.5 hp DC motor
- Varipak DC Motor Control (up to 30 cpm)
- 7350C Heavy Duty Reducer (Ratios from 10:1 to 60:1)
- Stationary Center Post
- Dual Cam and Limit Switch
- Left Hand Cam
- Relief in Dwell for shot-pin applications



Unless otherwise noted,
all dimensions are in mm.

Rotary Index Drive | Dimensions



Unless otherwise noted,
all dimensions are in inches.

Maximum Inertia x 1000 [lb-in²] for standard package							
Stops	Motion Time [seconds]						
	0.458	0.611	0.764	0.917	1.222	1.528	1.833
2	0	4	13	26	48	73	102
3	2	11	26	50	88	133	184
4	10	32	71	130	227	340	467
6	25	72	154	281	485	724	994
8	47	131	277	502	864	1,290	1,770
12	111	300	629	1,134	1,950	2,908	3,988
16	200	537	1,121	2,019	3,470	5,173	7,092
Reducer Ratio							
	15	20	25	30	40	50	60

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.

Features

- 7300C Reducer (Ratios from 15:1 to 60:1)
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (5.00 in. Diameter)
- 2 hp AC Drive Package with Inverter Duty Motor and Inverter Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Output Load Capacity (loads carried during index):

Radial	4,650 lbs
Thrust/Axial	11,650 lbs
Moment	40,528 in-lb

Typical Application Dial Diameter:

20 in. to 72 in.

Accuracy

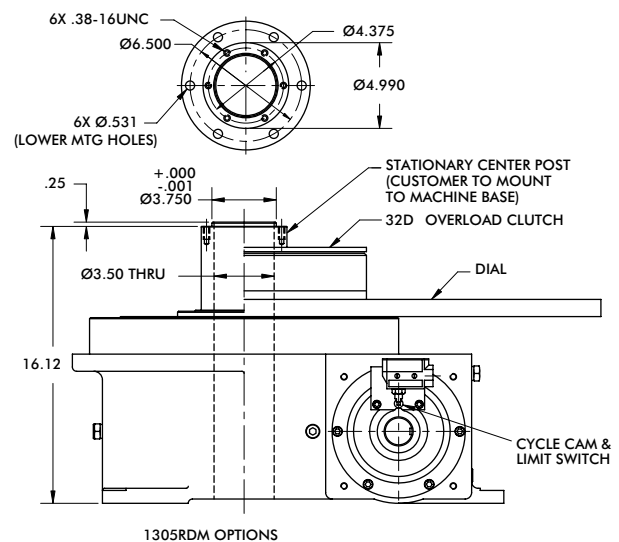
±38 arcsec / ±.007" at 36" Radius

Repeatability

±10 arcsec / ±.002" at 36" Radius

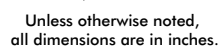
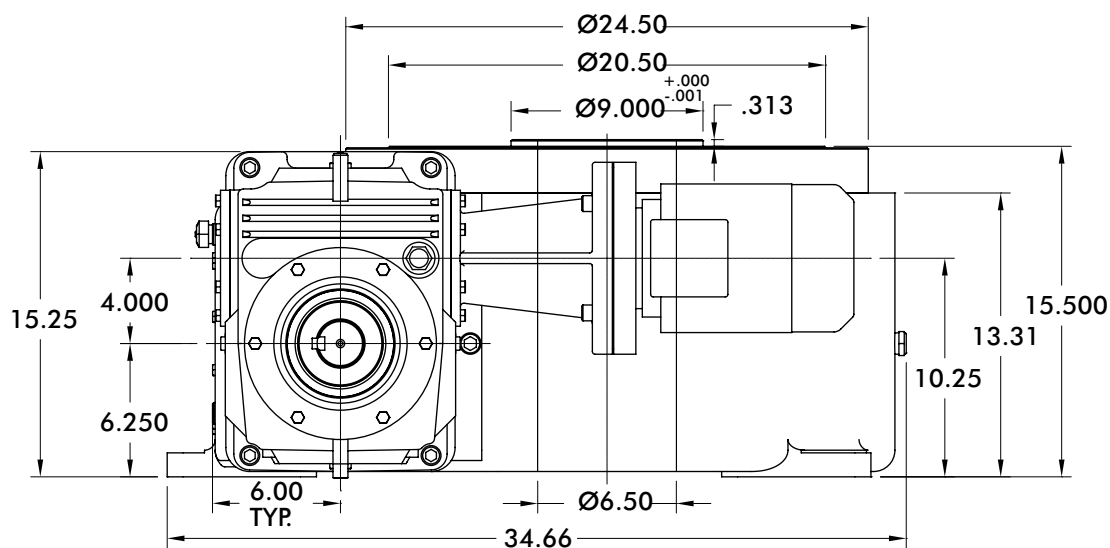
Optional Accessories

- 2 hp DC Motor
- Varipak DC Motor Control (up to 30 cpm)
- 7350C Heavy Duty Reducer (Ratios from 10:1 to 60:1)
- Output Overload Clutch model 32D
 - Available Settings (in-lbs): 8500, 13000, 20000, 31000
- Stationary Center Post
- Dual Cam and Limit Switch
- Base Riser Blocks
- Electric Clutch-Brake
- Left Hand Cam
- Relief in Dwell for shot-pin applications



Unless otherwise noted,
all dimensions are in inches.

Rotary Index Drive | Dimensions



Maximum Inertia x 1000 [lb-in²] for standard package							
Stops	Motion Time [seconds]						
	0.458	0.611	0.764	0.917	1.222	1.528	1.833
2	0	0	8	27	91	182	256
3	0	11	41	87	246	472	655
4	1	31	85	169	455	862	1,192
6	19	83	197	375	981	1,842	2,542
8	45	158	361	678	1,754	3,286	4,530
12	120	376	832	1,544	3,966	7,412	10,211
16	224	679	1,490	2,756	7,062	13,188	18,163
Reducer Ratio							
	15	20	25	30	40	50	60

Features

- 7400C Reducer (Ratios from 15:1 to 60:1)
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (6.50 in. Diameter)
- 2 or 3 hp AC Drive Package with Inverter Duty Motor and Inverter Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Output Load Capacity (loads carried during index):

Radial	5,850 lbs
Thrust/Axial	14,650 lbs
Moment	68,119 in-lb

Typical Application Dial Diameter:

26 in. to 96 in.

Accuracy

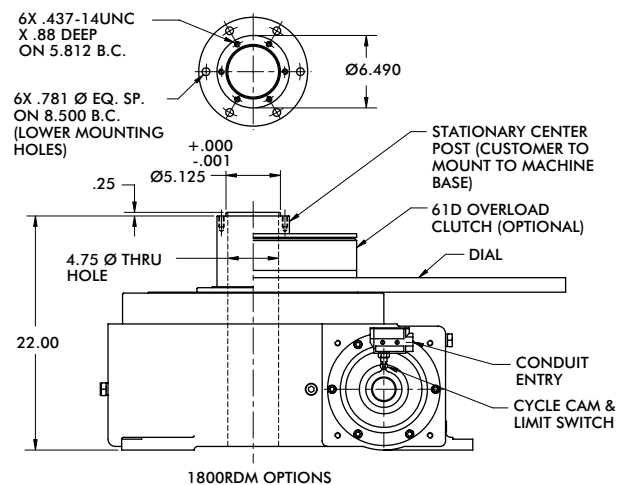
±27 arcsec / ±.006" at 48" Radius

Repeatability

±7 arcsec / ±.0016" at 48" Radius

Optional Accessories

- 2 hp DC Motor with Varipak DC Motor Control (up to 30 cpm)
- 3 hp DC Motor
- 7500C Heavy Duty Reducer (Ratios from 10:1 to 60:1)
- Output Overload Clutch model 61D – Available Settings (in-lbs): 23000, 36000, 44000, 50000, 60000
- Stationary Center Post
- Dual Cam and Limit Switch
- Base Riser Blocks
- Electric Clutch-Brake
- Left Hand Cam
- Relief in Dwell for shot-pin applications



Unless otherwise noted,
all dimensions are in inches.