# RSD SERIES

Rotary Servo Drive | Product Overview


Flange output

Shaft output

Internal shrink disk output

Shrink disk output

## Smarter Indexing

The **CAMCO RSD Rotary Servo Drive** is a zero-backlash, cam-actuated drive compatible with industry-standard servo motors for precise control, efficiency and flexibility.

Universal mounting

Maintenance-free operation

Large output bearing for greater overturning moment capacity

Large thru-hole for accessory lines (electric, pneumatic, etc.)

IP-65 rating

Class 100 rated with Med-Redi preparation

## Features

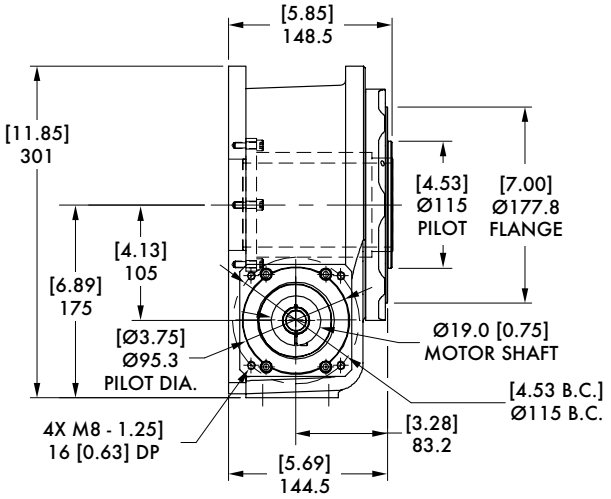
Designed to accept a variety of servo motors

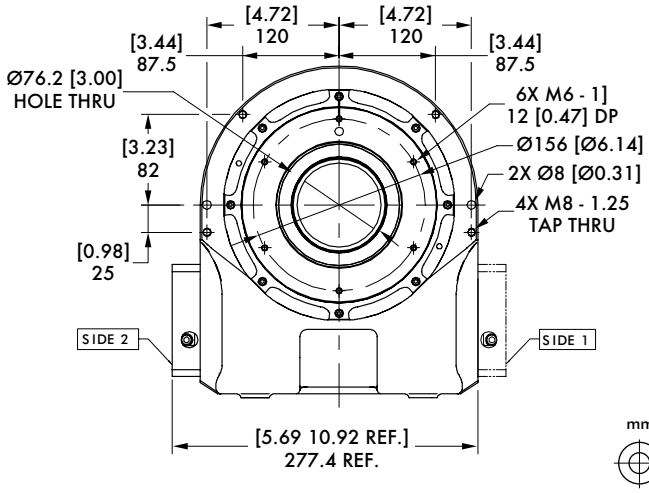
Preloaded system
- Zero backlash
- High accuracy
- Smooth motion
- Quiet operation
- High speed

Indexing flexibility
- Run different parts on the same indexer
- Variable indexing: reversing, sorting, vary distance with each index

4:1 to 18:1 ratios in a single stage

## Flange Output

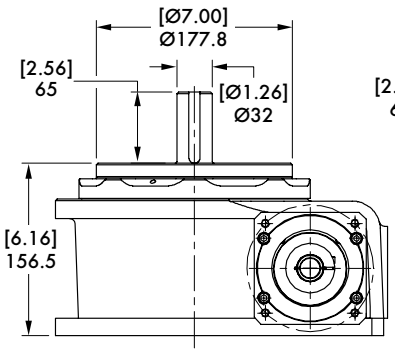


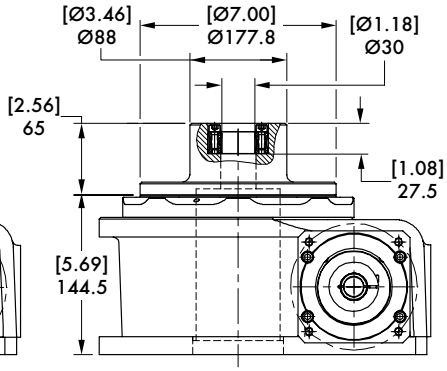

mm [INCH]

THIRD ANGLE PROJECTION

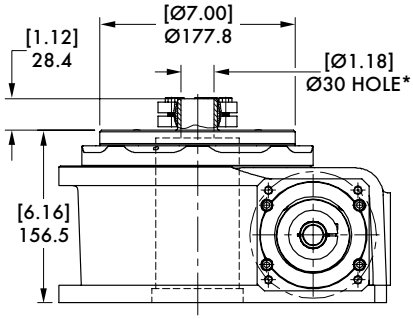
## Shaft Output




## Internal Shrink Disk Output




## Shrink Disk Output




* Also available with 40mm bore.

| Specifications | Units | Standard Ratios | | Other Available Ratios | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Single Reduction Ratio** | - | 8:1 | 16:1 | 4:1 | 5:1 | 6:1 | 9:1 | 12:1 | 15:1 | 18:1 |
| **Maximum Torque Capacity** | [in-lbs]<br>Nm | [3540]<br>400 | [3755]<br>424 | [2950]<br>333 | [3195]<br>361 | [3355]<br>379 | [3595]<br>406 | [3695]<br>417 | [3740]<br>423 | [3770]<br>426 |
| **Maximum Inertia on Output Dial** | [lb-in²]<br>kg.m² | [19,463]<br>854 | [77,853]<br>3417 | [4,866]<br>214 | [7,603]<br>334 | [10,948]<br>481 | [24,633]<br>1081 | [43,792]<br>1922 | [68,425]<br>3003 | [98,533]<br>4325 |
| **Unit Output Inertia Reflected at Input Shaft** | [lb-in²]<br>kg.m² | [5.29]<br>0.23 | [3.93]<br>0.17 | [11.30]<br>0.50 | [8.75]<br>0.38 | [6.65]<br>0.29 | [4.81]<br>0.21 | [5.14]<br>0.23 | [4.05]<br>0.18 | [3.71]<br>0.16 |
| **Stiffness** | in-lbs/arcmin<br>Nm/arcmin | [169]<br>19.0 | [179]<br>20.2 | [141]<br>15.9 | [153]<br>17.3 | [160]<br>18.0 | [172]<br>19.4 | [177]<br>20.0 | [179]<br>20.2 | [180]<br>20.3 |
| **Input Torque of Unit Only** | Nm [in-lb] | 2.26 [20] | | 2.26 [20] | | | | | | |
| **Maximum Axial Load** | Kg [lbf] | 10 [2,270] | | 5004 [2,270] | | | | | | |
| **Maximum Radial Load** | Kg [lbf] | 4 [910] | | 2006 [910] | | | | | | |
| **Maximum Offset Load** (Overturning Moment) | Nm [in-lb] | 359 [3180] | | 359 [3180] | | | | | | |
| **Output Face Flatness** | TIR mm [in] | 0.5 [0.002] | | 0.5 [0.002] | | | | | | |
| **Axial Run-Out** | mm [in] | [0.0015] | | [0.0015] | | | | | | |
| **Accuracy** | arc seconds | ±30 | | ±30 | | | | | | |
| **Repeatability** | arc seconds | ±7 | | ±7 | | | | | | |
| **Torsional Backlash** | arc seconds | 0 | | 0 | | | | | | |
| **Operating Temperature Range** | °F | 40 Minimum | | 140 Maximum | | | | | | |