# **B3S RODLESS SCREW DRIVE ACTUATOR**

# **ENDURANCE TECHNOLOGY**

Endurance Technology features are designed for maximum durability to provide extended service life.

The B3S rodless screw-drive electric actuator is designed for carrying moderate to heavy loads with large bending moment capacity. The B3S utilizes an integral recirculating ball bearing guidance system that provides durable performance and extremely long life. Choose from multiple screw technologies for thrust up 12 kN [2,700 lbf]. Built-to-order in stroke lengths up to 3.5 m [136 inches]

to the actuator body

**LOAD-BEARING CARRIER DESIGN** Load and moments are transmitted directly

# **Tolomatic...** MAXIMUM DURABILITY

### **SCREW SUPPORT BEARINGS**

Unique high thrust bearing assembly design eliminates runout and isolates the linear forces from the drive shaft



### YOU CAN CHOOSE:

•Inline option directly couples the driving shaft and is typically a onepiece housing construction for optimum alignment and support of the motor

**MOTOR ORIENTATION** 

 Reverse-parallel option minimizes the overall length and offers a belt reduction drive with a 1:1 or 2:1 ratio

### **YOUR MOTOR HERE**

#### YOU CAN CHOOSE:

- •Specify the device to be installed and actuator ships with proper mounting hardware
- •Specify and ship your device to Tolomatic for factory installation
- Motor or gearbox supplied and installed by Tolomatic

Prevent contaminants from entering the sealing band area to protect internal components

**FORMED END CAP WIPERS** 

### LIGHTWEIGHT ALUMINUM DESIGN

•Black anodized extrusion design is optimized for rigidity and strength

RECIRCULATING BALL BEARING SYSTEM

Unique design incorporates hardened steel

raceways integral to the aluminum extrusion

• Bearing surfaces are adjusted at the

performance

factory for optimum preload and smooth

guidance, high efficiency and durability

• Recirculating ball bearing system provides

•External switch channels on both sides allow easy placement and adjustment of position indicating switches

## **OPTIONS**

# **CARRIER OPTIONS**



- AUXILIARY CARRIER doubles the load capacity and increases pitch and yaw bending moment
- DUAL 180° CARRIER doubles the load capacity, increases roll and yaw bending moment capacities and offers a wide mounting platform

### **MOUNTING OPTIONS**

- SURFACE MOUNT two t-slots are integral on the entire underside of the actuator body for direct mounting
- •TUBE SUPPORTS provide intermediate support of the actuator body throughout long stroke lengths
- MOUNTING PLATES provide intermediate support of the actuator body throughout long stroke lengths

#### •METRIC OPTION

Provides metric tapped holes for mounting of load to carrier and of actuator to mating surfaces



#### • SWITCHES

Styles include: reed, hall-effect or triac. Select either 5 m potted cable with flying leads or 150 mm to quickdisconnect coupler with mating 5 m cable

- anti-backlash available
- and repeatability with longer life: lowbacklash available



#### **INTERNAL BUMPERS**

Bumpers protect the screw and nut assembly from damage at end of stroke

# STAINLESS STEEL SEALING BAND

- Prevents contaminants from entering the screw and nut area for extended performance
- Fatigue resistant stainless steel bands are specifically made to offer long life and will not elongate
- Provides IP44 protection for bearings and screw nut

### **MULTIPLE SCREW TECHNOLOGIES**

#### YOU CAN CHOOSE:

- Solid nuts of engineered resins offer quiet performance at the lowest cost;
- Ball nuts offer positioning accuracy