

# SLIDE-RITE® GEARBOX

*engineered for long life with*

**ENDURANCE TECHNOLOGY<sup>SM</sup>**



## **NOW AVAILABLE:**

- **3:2 RATIO**
- **2:1 RATIO**
- **1:1 METRIC**
- **1:1 CORROSION RESISTANT**

**OVER 50 YEARS OF PROVEN PERFORMANCE**

# Slide-Rite® & Slide-Rite® CR Gearbox

## COMPACT SIZE & STANDARD SIZE

The **Slide-Rite®**, like the classic **Float-A-Shaft®**, is a universal right angle gearbox. It consists of two 45° helical gears that mesh at right angles, designed to turn power at 90°. It can be operated in either direction and can slide axially along the drive or driven shaft.

The **Slide-Rite®** gearbox's unique floating design maintains perfect shaft alignment allowing for easy installation.

A solid one-piece aluminum housing seals the gears from outside contaminants, providing for smooth operation in even the harshest industrial environments.

### ENDURANCE TECHNOLOGY<sup>SM</sup>

Look for this endurance technology symbol indicating our durability design features

#### LEAK-PROOF PERFORMANCE

- One-piece housing, one-piece geared shaft and sealed bearings offer leak-proof performance and excellent service life

#### PRELUBRICATED

- Prelubricated for long, trouble-free service

#### ONE-PIECE GEARED SHAFT

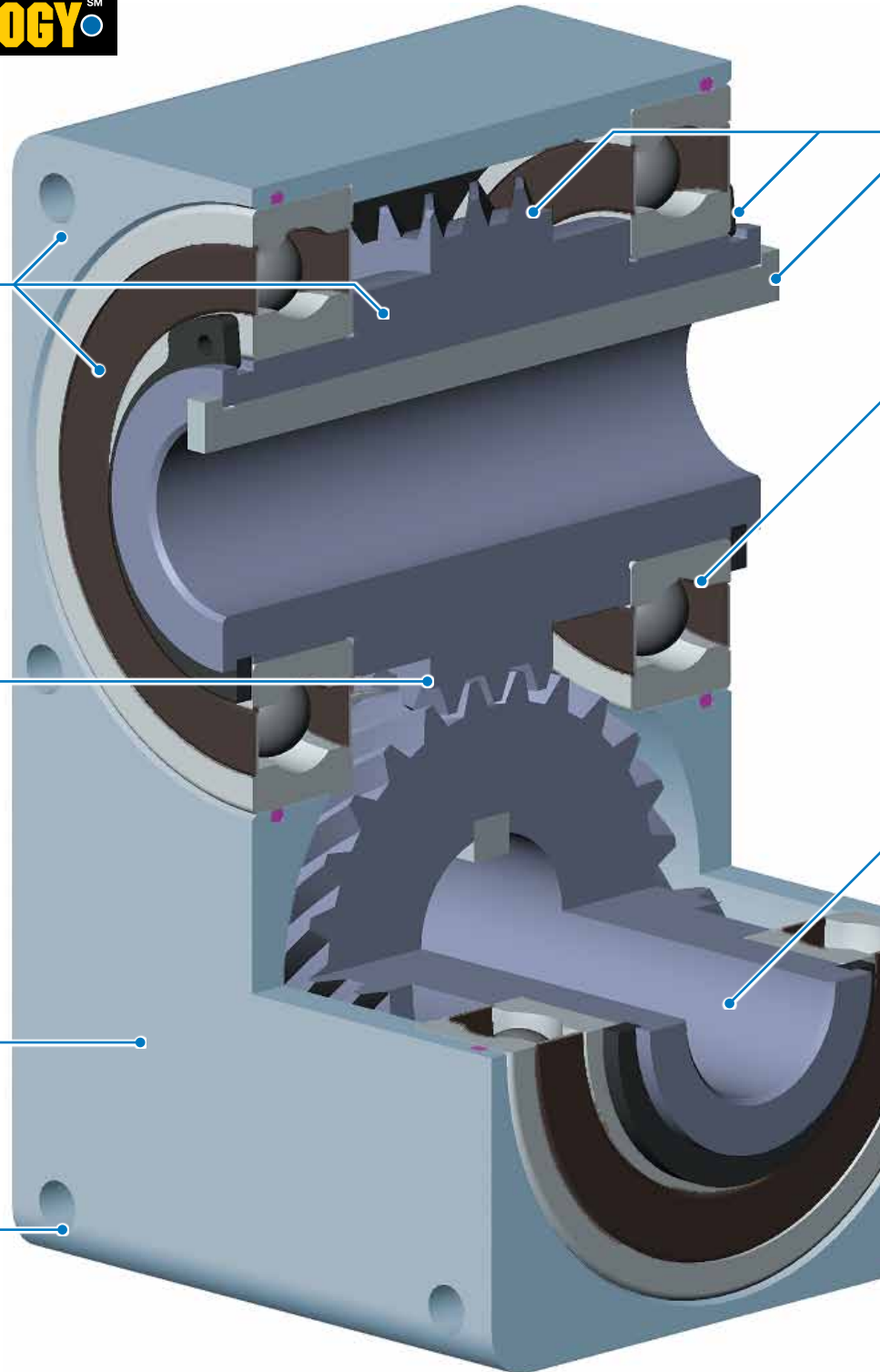
- Fewer parts to wear out

#### USES STANDARD TRANSMISSION SHAFTING

#### HARD COATED ALUMINUM CASE

- Resists corrosion and forms its own lubricant reservoir

#### THREADED MOUNTING HOLES



# Slide-Rite® & Slide-Rite®CR Gearbox

## APPLICATION EXAMPLE

The specially selected corrosion resistant components of the **Slide-Rite®CR** Gearbox make it the perfect choice for environmentally challenging applications.

### SLIDE-RITE®CR FEATURES:

#### • HELICAL GEARS, KEYS, RETAINING RINGS •

##### • ALLOY STEEL •

- 45 degree helical gears are hardened alloy steel
- High performance, long life construction

##### • NICKEL PLATED •

- Corrosion resistant electroless nickel-plated geared sleeves, keys and retaining rings

#### • BEARINGS AND BEARING RACES •

##### • HARDENED STEEL •

- High performance, long life materials

##### • STAINLESS STEEL •

- Corrosion resistant stainless steel balls and races

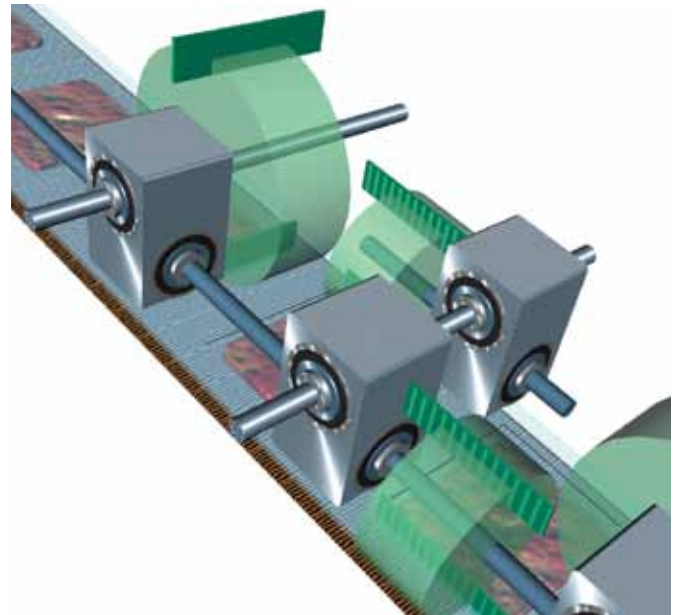


#### • PRECISION GROUND BORES •

#### • SPECIFICATIONS •

- Max speed: 1,200 RPM
- Backlash: < 1 degree
- Bidirectional
- Slide through bore: limited only by length of keyway on shaft

Specifications and endurance technology features apply to all sizes of Slide-Rite® gearboxes.



#### **Application Description:**

A manufacturer of frozen pizzas needed a way to cut and seal the plastic packaging for multiple sizes of their signature square pizza.

#### **Application Requirements:**

- Output of 60 pizzas per minute
- 4" adjustment range
- No maintenance - washdown environment

#### **Tolomatic Solution: Slide-Rite®CR Gearboxes**

The sealed, high speed, corrosion resistant design of the Slide-Rite®CR provides the high throughput necessary in this application. Other important application design features: Using multiple right angle gearboxes, a single motor, located outside the wash down area, synchronously drives both cutting and sealing units. The slide through bore feature of the Slide-Rite® offers adjustability for several pizza sizes.

# Slide-Rite® & Slide-Rite®CR Gearbox

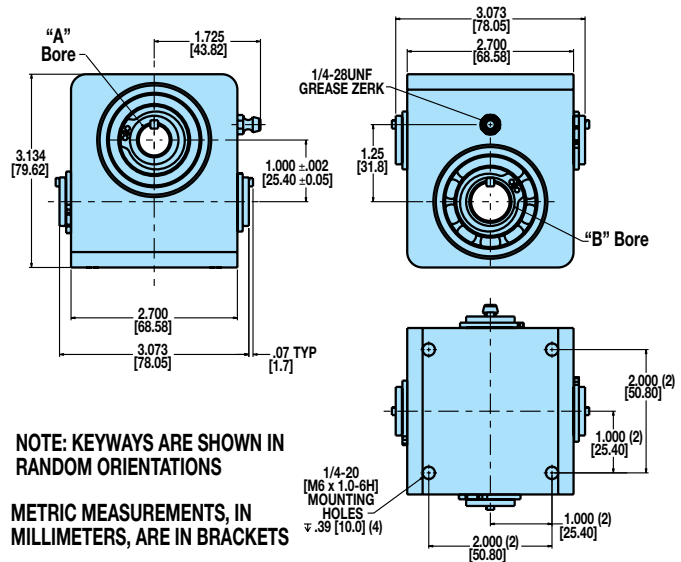
## COMPACT SIZE – 1:1 RATIO – U.S. & METRIC

### AVAILABLE STYLES



### DIMENSIONS

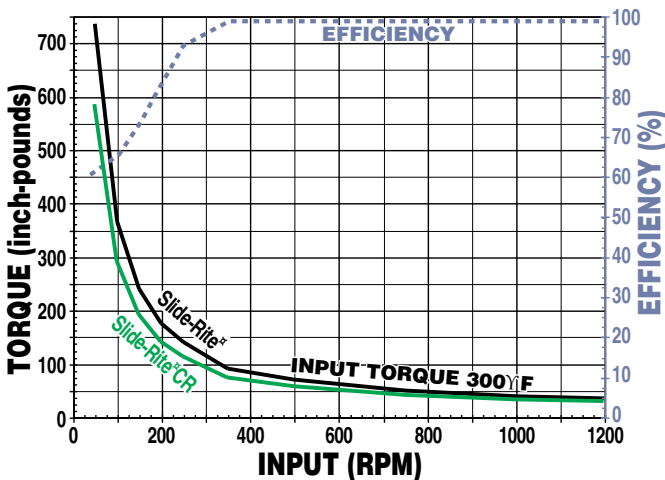
Model Builder 3D CAD Available at: [www.tolomatic.com](http://www.tolomatic.com)



### PERFORMANCE DATA

#### High Torque Ball Bearings

#### Torque and Efficiency vs RPM at Maximum Operating Temperature



#### Models and Bore Dimensions

#### COMPACT SIZE – 1:1 RATIO – U.S. HIGH TORQUE BALL BEARING

SLIDE-RITE® MODEL NUMBER	SLIDE-RITE®CR MODEL NUMBER	RH or LH	"A" BORE		"B" BORE		APPROX. WEIGHT (LBS.)
			BORE SIZE (IN.)	WxD KEYWAY (IN.)	BORE SIZE (IN.)	WxD KEYWAY (IN.)	
0120-0400	0120-0420	RH	1/2	1/8 x 1/16	1/2	1/8 x 1/16	2.7
0121-0400	0121-0420	LH	1/2	1/8 x 1/16	1/2	1/8 x 1/16	2.7
0122-0400	0122-0420	RH	1/2	1/8 x 1/16	5/8	1/8 x 1/16	2.6
0123-0400	0123-0420	LH	1/2	1/8 x 1/16	5/8	1/8 x 1/16	2.6
0124-0400	0124-0420	RH	5/8	1/8 x 1/16	5/8	1/8 x 1/16	2.5
0125-0400	0125-0420	LH	5/8	1/8 x 1/16	5/8	1/8 x 1/16	2.5

#### COMPACT SIZE – 1:1 RATIO – METRIC HIGH TORQUE BALL BEARING

SLIDE-RITE® MODEL NUMBER	RH or LH	"A" BORE		"B" BORE		APPROX. WEIGHT (kg.)
		BORE SIZE (mm)	WxD KEYWAY (mm)	BORE SIZE (mm)	WxD KEYWAY (mm)	
0120-0410	RH	12	4 x 2	12	4 x 2	1.2
0121-0410	LH	12	4 x 2	12	4 x 2	1.2
0122-0410	RH	12	4 x 2	15	5 x 2.5	1.2
0123-0410	LH	12	4 x 2	15	5 x 2.5	1.2
0124-0410	RH	15	5 x 2.5	15	5 x 2.5	1.1
0125-0410	LH	15	5 x 2.5	15	5 x 2.5	1.1

# Slide-Rite® & Slide-Rite®CR Gearbox

## STANDARD SIZE – 1:1 RATIO – U.S. & METRIC

### AVAILABLE STYLES

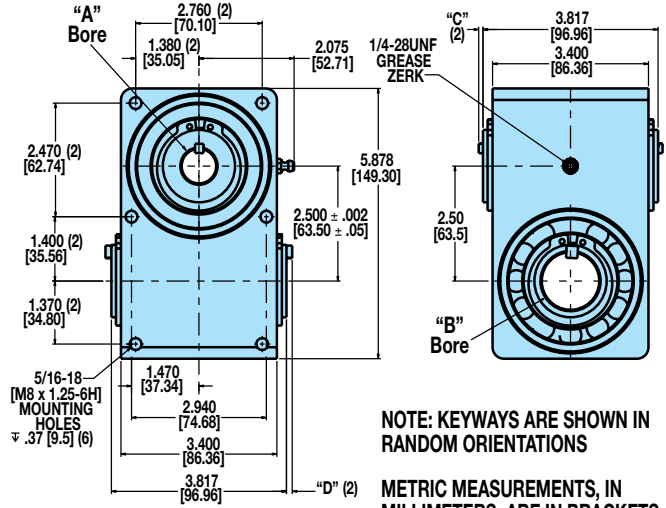
SLIDE-RITE®

SLIDE-RITE®CR



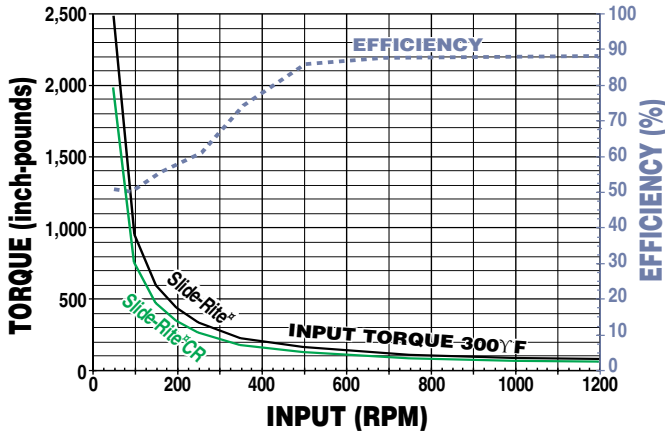
### DIMENSIONS

Model Builder 3D CAD Available at: [www.tolomatic.com](http://www.tolomatic.com)



### PERFORMANCE DATA

**High Torque Ball Bearings**  
**Torque and Efficiency vs RPM**  
**at Maximum Operating Temperature**



### Models and Bore Dimensions

**STANDARD SIZE – 1:1 RATIO – U.S.**  
**HIGH TORQUE BALL BEARING**

SLIDE-RITE® MODEL NUMBER	SLIDE-RITE®CR MODEL NUMBER	RH or LH	"A" BORE			"B" BORE			APPROX. WEIGHT (LBS.)
			BORE SIZE (IN.)	WxD (IN.)	"C" KEYWAY DIM. (IN.)	BORE SIZE (IN.)	WxD (IN.)	"D" KEYWAY DIM. (IN.)	
0220-0400	0220-0420	RH	3/4	3/16 x 3/32	.10	3/4	3/16 x 3/32	.10	10.7
0221-0400	0221-0420	LH	3/4	3/16 x 3/32	.10	3/4	3/16 x 3/32	.10	10.7
0222-0400	0222-0420	RH	3/4	3/16 x 3/32	.10	1	1/4 x 1/8	.13	10.4
0223-0400	0223-0420	LH	3/4	3/16 x 3/32	.10	1	1/4 x 1/8	.13	10.4
0224-0400	0224-0420	RH	3/4	3/16 x 3/32	.10	1-1/4	1/4 x 1/8	.13	9.9
0225-0400	0225-0420	LH	3/4	3/16 x 3/32	.10	1-1/4	1/4 x 1/8	.13	9.9
0226-0400	0226-0420	RH	1	1/4 x 1/8	.13	1	1/4 x 1/8	.13	10.0
0227-0400	0227-0420	LH	1	1/4 x 1/8	.13	1	1/4 x 1/8	.13	10.0
0228-0400	0228-0420	RH	1	1/4 x 1/8	.13	1-1/4	1/4 x 1/8	.13	9.6
0229-0400	0229-0420	LH	1	1/4 x 1/8	.13	1-1/4	1/4 x 1/8	.13	9.6
0230-0400	0230-0420	RH	1-1/4	1/4 x 1/8	.13	1-1/4	1/4 x 1/8	.13	9.1
0231-0400	0231-0420	LH	1-1/4	1/4 x 1/8	.13	1-1/4	1/4 x 1/8	.13	9.1

**STANDARD SIZE – 1:1 RATIO – METRIC**  
**HIGH TORQUE BALL BEARING**

SLIDE-RITE® MODEL NUMBER	RH or LH	"A" BORE			"B" BORE			APPROX. WEIGHT (kg.)
		BORE SIZE (mm)	WxD (mm)	"C" KEYWAY DIM. (mm)	BORE SIZE (mm)	WxD (mm)	"D" KEYWAY DIM. (mm)	
0220-0410	RH	20	6 x 3	3.2	20	6 x 3	3.2	4.8
0221-0410	LH	20	6 x 3	3.2	20	6 x 3	3.2	4.8
0222-0410	RH	20	6 x 3	3.2	25	8 x 3.5	3.2	4.7
0223-0410	LH	20	6 x 3	3.2	25	8 x 3.5	3.2	4.7
0224-0410	RH	20	6 x 3	3.2	30	8 x 3.5	3.2	4.5
0225-0410	LH	20	6 x 3	3.2	30	8 x 3.5	3.2	4.5
0226-0410	RH	25	8 x 3.5	3.2	25	8 x 3.5	3.2	4.5
0227-0410	LH	25	8 x 3.5	3.2	25	8 x 3.5	3.2	4.5
0228-0410	RH	25	8 x 3.5	3.2	30	8 x 3.5	3.2	4.4
0229-0410	LH	25	8 x 3.5	3.2	30	8 x 3.5	3.2	4.4
0230-0410	RH	30	8 x 3.5	3.2	30	8 x 3.5	3.2	4.2
0231-0410	LH	30	8 x 3.5	3.2	30	8 x 3.5	3.2	4.2

# STANDARD SIZE – 3:2 RATIO – U.S.

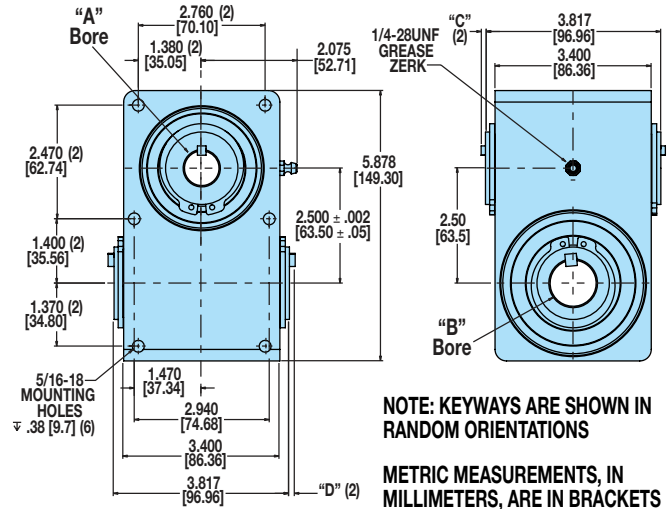
## AVAILABLE STYLES

SLIDE-RITE®



## DIMENSIONS

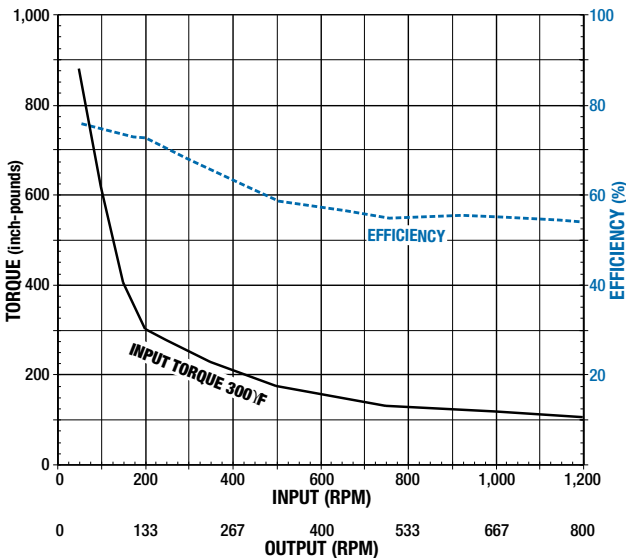
Model Builder 3D CAD Available at: [www.tolomatic.com](http://www.tolomatic.com)



## PERFORMANCE DATA

### High Torque Ball Bearings

### Torque and Efficiency vs RPM at Maximum Operating Temperature



### Models and Bore Dimensions

### STANDARD SIZE – 3:2 RATIO – U.S. HIGH TORQUE BALL BEARING

SLIDE-RITE® MODEL NUMBER	RH or LH	"A" BORE			"B" BORE			APPROX. WEIGHT (LBS.)
		BORE SIZE (IN.)	WxD (IN.)	"C" DIM. (IN.)	BORE SIZE (IN.)	WxD (IN.)	"D" DIM. (IN.)	
0320-0460	RH	3/4	3/16 x 3/32	.10	3/4	3/16 x 3/32	.10	10.3
0321-0460	LH	3/4	3/16 x 3/32	.10	3/4	3/16 x 3/32	.10	10.3
0322-0460	RH	3/4	3/16 x 3/32	.10	1	1/4 x 1/8	.13	10.0
0323-0460	LH	3/4	3/16 x 3/32	.10	1	1/4 x 1/8	.13	10.0
0324-0460	RH	3/4	3/16 x 3/32	.10	1-1/4	1/4 x 1/8	.13	9.5
0325-0460	LH	3/4	3/16 x 3/32	.10	1-1/4	1/4 x 1/8	.13	9.5
0326-0460	RH	1	1/4 x 1/8	.13	1	1/4 x 1/8	.13	9.6
0327-0460	LH	1	1/4 x 1/8	.13	1	1/4 x 1/8	.13	9.6
0328-0460	RH	1	1/4 x 1/8	.13	1-1/4	1/4 x 1/8	.13	9.1
0329-0460	LH	1	1/4 x 1/8	.13	1-1/4	1/4 x 1/8	.13	9.1
0330-0460	RH	1-1/4	1/4 x 1/8	.13	1-1/4	1/4 x 1/8	.13	8.7
0331-0460	LH	1-1/4	1/4 x 1/8	.13	1-1/4	1/4 x 1/8	.13	8.7

# STANDARD SIZE – 2:1 RATIO – U.S.

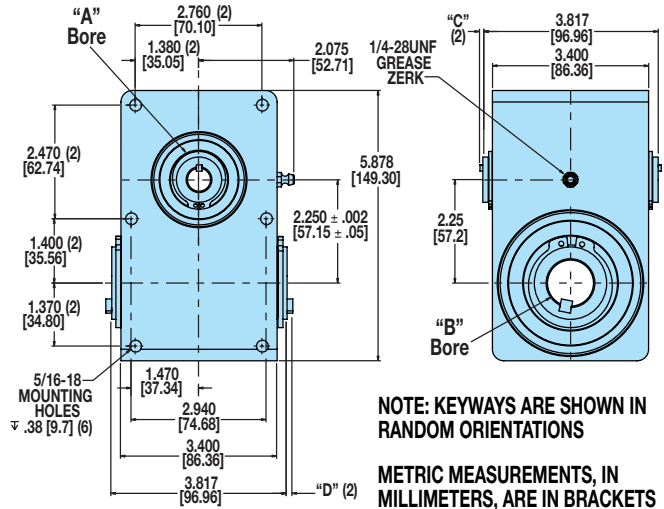
## AVAILABLE STYLES

SLIDE-RITE®



## DIMENSIONS

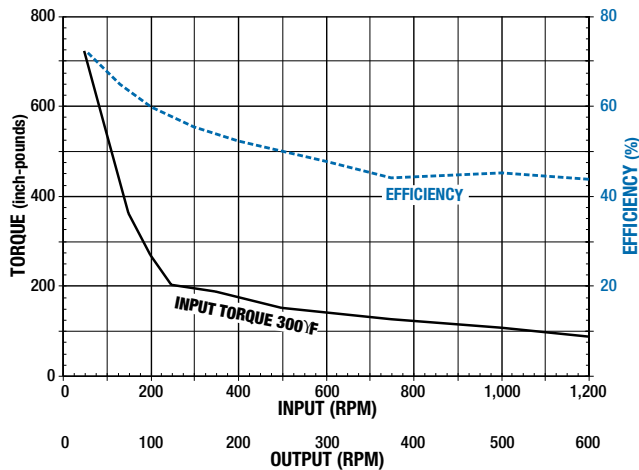
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## PERFORMANCE DATA

### High Torque Ball Bearings

### Torque and Efficiency vs RPM at Maximum Operating Temperature



### Models and Bore Dimensions

### STANDARD SIZE – 2:1 RATIO – U.S. HIGH TORQUE BALL BEARING

SLIDE-RITE® MODEL NUMBER	RH or LH	"A" BORE			"B" BORE			APPROX. WEIGHT (LBS.)
		BORE SIZE (IN.)	WxD (IN.)	"C" DIM. (IN.)	BORE SIZE (IN.)	WxD (IN.)	"D" DIM. (IN.)	
0220-0460	RH	1/2	1/8 x 1/16	.07	3/4	3/16 x 3/32	.10	10.7
0221-0460	LH	1/2	1/8 x 1/16	.07	3/4	3/16 x 3/32	.10	10.7
0222-0460	RH	1/2	1/8 x 1/16	.07	1	1/4 x 1/8	.13	10.4
0223-0460	LH	1/2	1/8 x 1/16	.07	1	1/4 x 1/8	.13	10.4
0224-0460	RH	1/2	1/8 x 1/16	.07	1-1/4	1/4 x 1/8	.13	9.9
0225-0460	LH	1/2	1/8 x 1/16	.07	1-1/4	1/4 x 1/8	.13	9.9
0226-0460	RH	5/8	1/8 x 1/16	.07	3/4	3/16 x 3/32	.10	10.0
0227-0460	LH	5/8	1/8 x 1/16	.07	3/4	3/16 x 3/32	.10	10.0
0228-0460	RH	5/8	1/8 x 1/16	.07	1	1/4 x 1/8	.13	9.6
0229-0460	LH	5/8	1/8 x 1/16	.07	1	1/4 x 1/8	.13	9.6
0230-0460	RH	5/8	1/8 x 1/16	.07	1-1/4	1/4 x 1/8	.13	9.1
0231-0460	LH	5/8	1/8 x 1/16	.07	1-1/4	1/4 x 1/8	.13	9.1
0232-0460	RH	3/4	3/16 x 3/32	.10	3/4	3/16 x 3/32	.10	10.0
0233-0460	LH	3/4	3/16 x 3/32	.10	3/4	3/16 x 3/32	.10	10.0
0234-0460	RH	3/4	3/16 x 3/32	.10	1	1/4 x 1/8	.13	9.6
0235-0460	LH	3/4	3/16 x 3/32	.10	1	1/4 x 1/8	.13	9.6
0236-0460	RH	3/4	3/16 x 3/32	.10	1-1/4	1/4 x 1/8	.13	9.1
0237-0460	LH	3/4	3/16 x 3/32	.10	1-1/4	1/4 x 1/8	.13	9.1

# THE TOLOMATIC DIFFERENCE

What you expect from the industry leader:



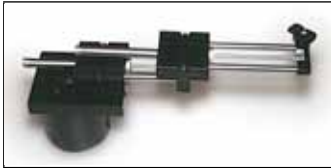
## EXCELLENT CUSTOMER SERVICE & TECHNICAL SUPPORT

Our people make the difference! Expect prompt, courteous replies to all of your application and product questions.



## INDUSTRY LEADING DELIVERIES

Standard catalog products are built to order and ready-to-ship in 5 days or less. Modified and custom products ship weeks ahead of the competition.



## INNOVATIVE PRODUCTS

From standard catalog products... to modified products... to completely unique custom products, Tolomatic designs and builds the best solutions for your challenging applications.



## 3D MODELS & 2D DRAWINGS AVAILABLE ON THE WEB

Easy to access CAD files are available in many popular formats.

### ALSO CONSIDER THESE OTHER TOLOMATIC PRODUCTS:

#### PNEUMATIC PRODUCTS



RODLESS CYLINDERS: Band Cylinders, Cable Cylinders, MAGNETICALLY COUPLED CYLINDERS/SLIDES; GUIDED ROD CYLINDER SLIDES; ROTARY ACTUATORS  
"FOLDOUT" BROCHURE #9900-9075    PRODUCTS BROCHURE #9900-4028    [www.tolomatic.com/pneumatic](http://www.tolomatic.com/pneumatic)

#### ELECTRIC PRODUCTS



ROD & GUIDED ROD STYLE ACTUATORS, HIGH THRUST ACTUATORS, SCREW & BELT DRIVE RODLESS ACTUATORS, MOTORS, AXIOM DRIVES/CONTROLLERS  
"FOLDOUT" BROCHURE #9900-9074    PRODUCTS BROCHURE #9900-4016    [www.tolomatic.com/electric](http://www.tolomatic.com/electric)

#### POWER TRANSMISSION PRODUCTS



GEARBOXES: Float-A-Shaft®, Slide-Rite®; DISC CONE CLUTCH; CALIPER DISC BRAKE  
"FOLDOUT" BROCHURE #9900-9076    PRODUCTS BROCHURE #9900-4029    [www.tolomatic.com/pt](http://www.tolomatic.com/pt)



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