

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 SM

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

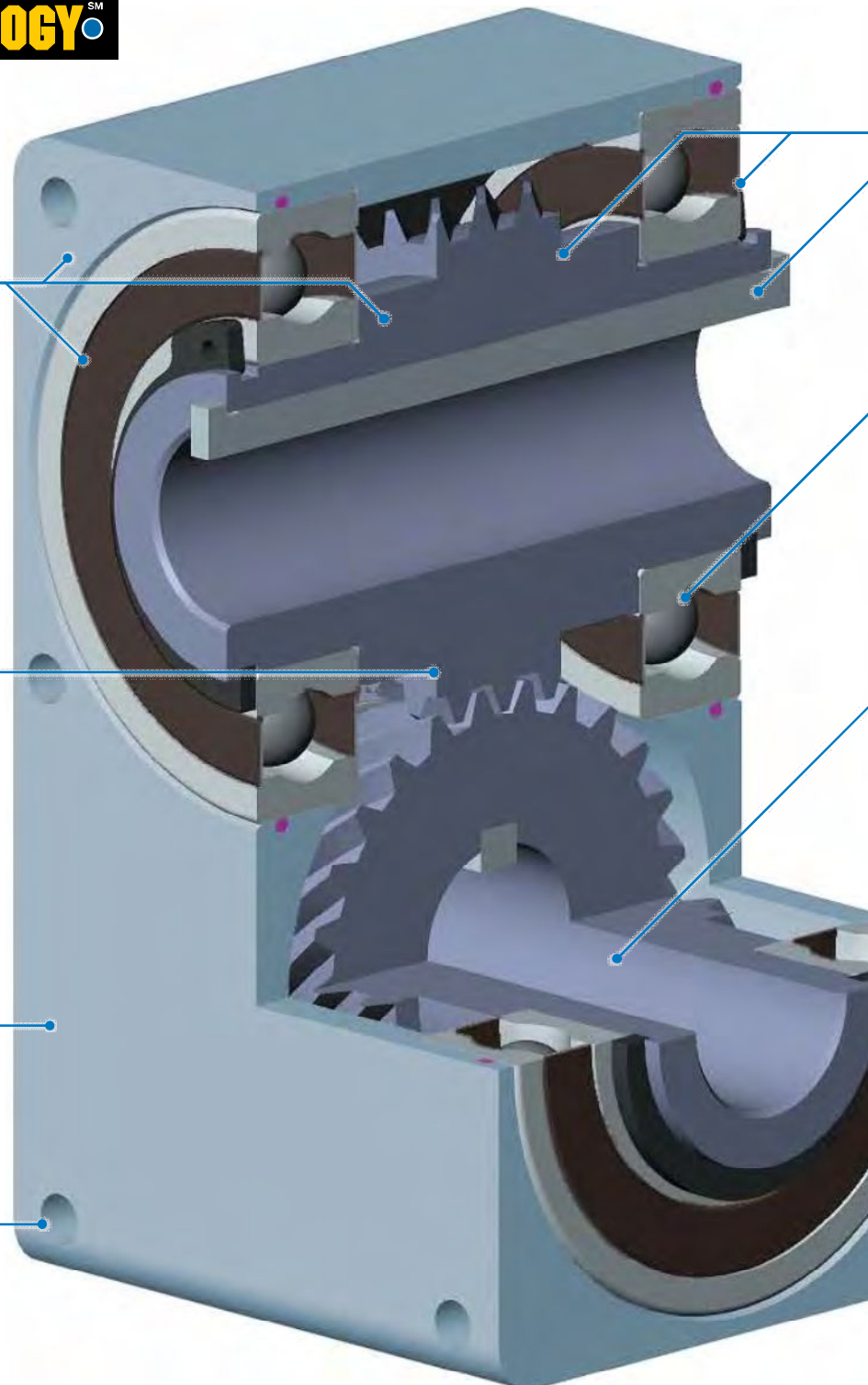
- Fewer parts to wear out

USES STANDARD TRANSMISSION SHAFTING

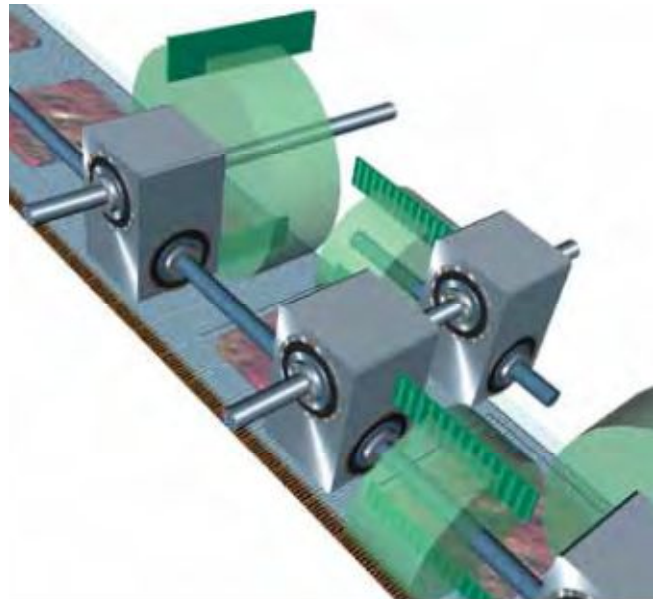
HARD COATED ALUMINUM CASE

- Resists corrosion and forms its own lubricant reservoir

THREADED MOUNTING HOLES



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

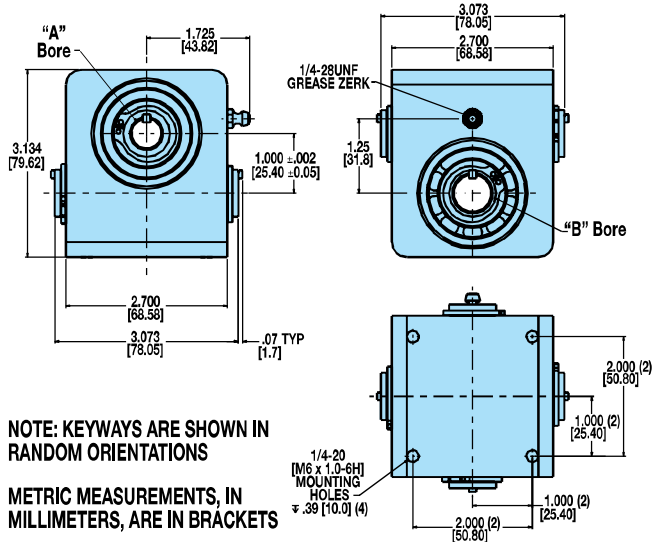
1:1 US STANDARD
1:1 METRIC

1:1 SLIDE-RITE®CR; US STANDARD



DIMENSIONS

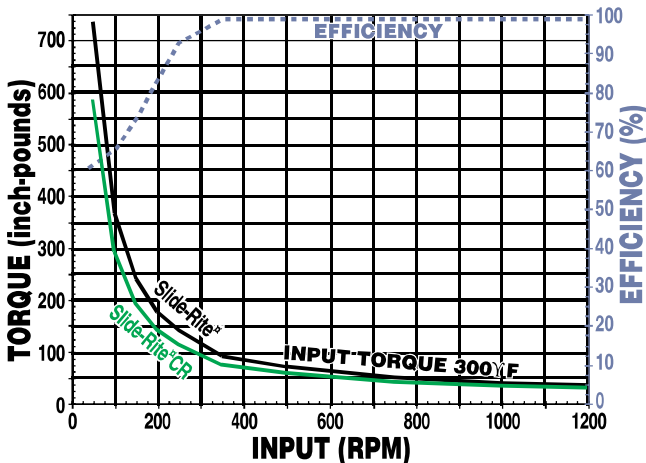
Model Builder 3D CAD Available at: www.tolomatic.com



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

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

1:1 US STANDARD
1:1 METRIC

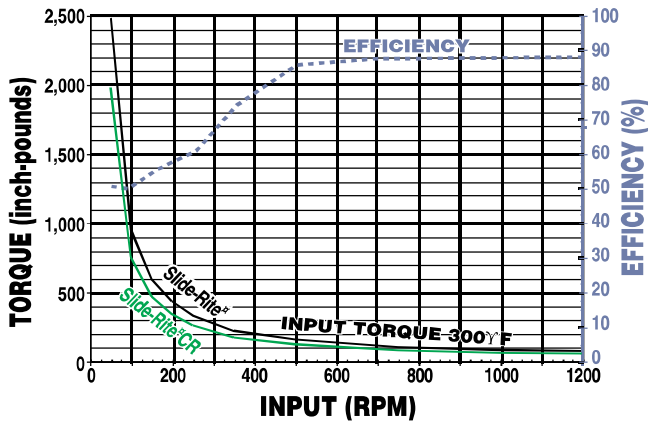


1:1 SLIDE-RITE®CR; US STANDARD



PERFORMANCE DATA

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



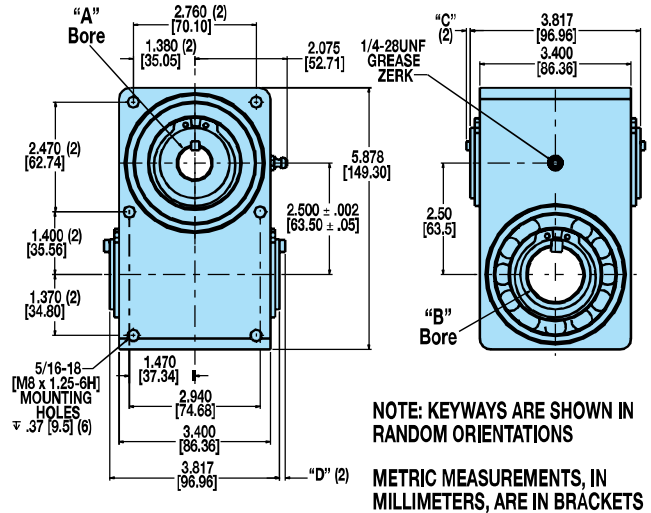
Models and Bore Dimensions

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 KEYWAY (IN.)	"C" DIM. (IN.)	BORE SIZE (IN.)	WxD KEYWAY (IN.)	"D" 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

DIMENSIONS

Model Builder 3D CAD Available at: www.tolomatic.com



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

MODEL NUMBER	RH or LH	"A" BORE			"B" BORE			APPROX. WEIGHT (kg.)
		BORE SIZE (mm)	WxD KEYWAY (mm)	"C" DIM. (mm)	BORE SIZE (mm)	WxD KEYWAY (mm)	"D" 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

Slide-Rite® Gearbox

STANDARD SIZE – 3:2 RATIO – U.S.

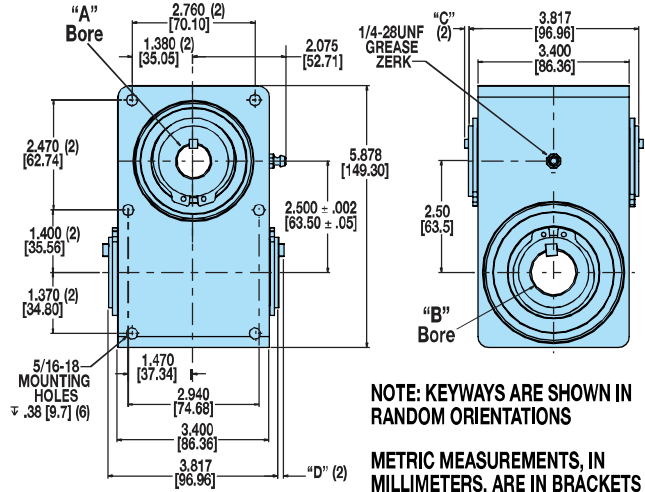
AVAILABLE STYLES

3:2 US STANDARD



DIMENSIONS

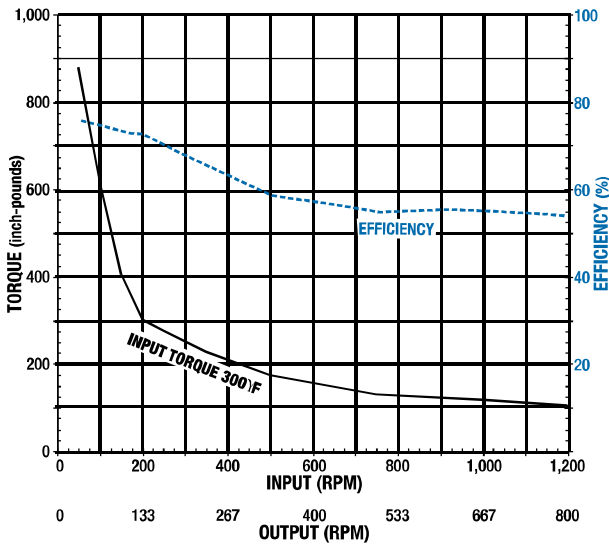
Model Builder 3D CAD Available at: www.tolomatic.com



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

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.

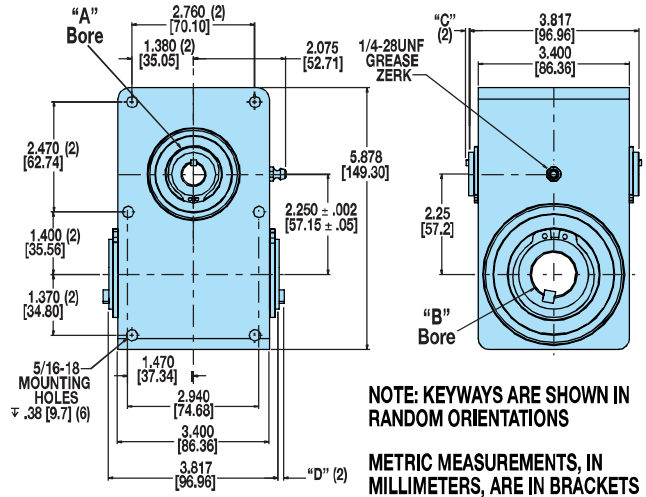
AVAILABLE STYLES

2:1 US STANDARD



DIMENSIONS

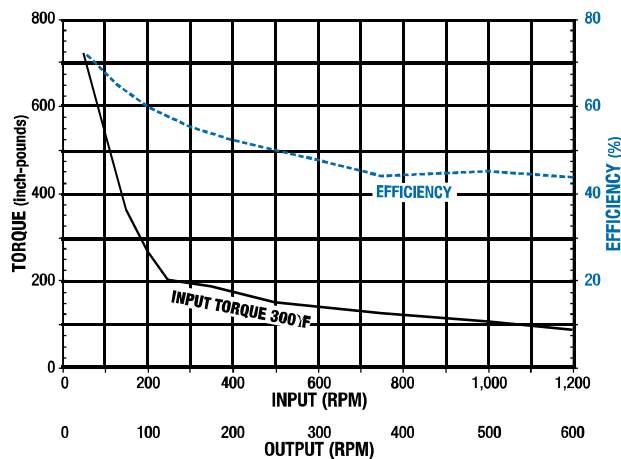
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PERFORMANCE DATA

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

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

GEARBOXES

SLIDE-RITE GEARBOX

ENDURANCE TECHNOLOGY

APPLICATION EXAMPLE

COMPACT SERIES 1:1 RATIO

STANDARD SERIES 1:1 RATIO

STANDARD SERIES 3:2 RATIO

STANDARD SERIES 2:1 RATIO

FLOAT-A-SHAFT

APPLICATIONS

INTRODUCTION

COMPACT SERIES 1:1 RATIO

STANDARD SERIES 1:1 RATIO

STANDARD SERIES 3:2 RATIO

STANDARD SERIES 2:1 RATIO

STANDARD SERIES 2.5:1 RATIO

SELECTION

INSTALLATION

SHAFT & KEYWAY REQUIREMENTS