STÖBER

# "K" Series
# Food and Beverage Duty Reducer

## Installation and Maintenance Guide



# Handling Instructions

In order to obtain long-life and trouble-free operation, it is essential that the installation and operating procedures outlined in this manual be followed. Failure to follow these instructions will void the drive's warranty.

- The STOBER Food and Beverage Duty reducer's coating is very rugged but can be compromised by rough handling. Nylon bolts have been installed to reduce the risk of compromising the coating as the reducer is handled prior to and during installation. The nylon bolts are located on Side 1 and Side 5 of the reducer. These bolts should not be removed unless the holes are being utilized. If the coating is damaged, contact STOBER Technical Support for recommendations regarding proper touch up.
- The STOBER Food and Beverage Duty reducer is filled at the factory with the proper type and quantity of oil for mounting in any "horizontal output" position. **DO NOT ADD OR REMOVE OIL** or open the reducer oil fill plug during the warranty period.
- STOBER Drives Inc. offers 24 hour technical support. When seeking assistance regarding a reducer, provide the serial number located on the reducer's nameplate.
- It is recommended that the STOBER Food and Beverage Duty reducer be torque arm mounted. Rigid mounting of the reducer may cause excessive wear to shafts and bearings associated with your equipment and may void the reducer's warranty. Call STOBER Technical Support for information regarding proper torque arm mounting.

**WARNING:** Safety is the most important consideration when operating any type of drive. Through proper application, safe handling methods, and wearing appropriate clothing, accidents and injury to yourself and fellow workers can be prevented.

The torque required by the application must not exceed the reducer torque capacity shown on the nameplate. For safety purposes a safety coupling should be installed between the reducer and the driven load. Otherwise, overload may cause damage to the interior parts of the reducer which may result in breaking the reducer housing. As a result, persons could be injured by flying parts or splashing hot gear oil.

The shafts of speed reducers rotate at very high speeds and can cut off or severely injure hands, fingers, and arms. Use appropriate guards for shafts and other rotating parts at all times. Follow all directions in the service instructions. Obey all federal, state, local, and your companies safety standards when operating the drive.

- Always be sure electrical power is off while making electrical connections and during installation and maintenance of the unit.
- Keep clothing, hands, and tools away from ventilation openings on motors and from all rotating parts during operation.
- Lift drives with a double rope sling or other proper lifting equipment of adequate strength. Make sure load is secured and balanced to prevent shifting when unit is being moved. Lifting drives by hand may be dangerous and should be avoided.
- The intended use of lifting lugs is to handle the weight of the unit only. Never use a lifting lug to lift attached assemblies.
- Never operate drive at speeds higher than those shown on the nameplate, or personal injury may result. Contact STOBER Drives Inc., if there is any change of operating conditions from those for which the unit was originally sold (as stamped on the nameplate). Failure to comply could result in personal injury and or machinery damage.

Each drive is tested before delivery. Before installation however, it is advisable to examine the unit for possible damage which might have occurred during transit. If damage is discovered, it should be immediately reported to the transport agent.

If installation is delayed after receipt of the reducer, it should be stored in a clean, dry place until put into service. Long term storage requires special procedures. If not kept in a heated, dry area, consult STOBER Drives, Inc. for storage instructions.

**NOTE**: If it is necessary to clean drive shafts, take care to protect the oil seals.

**IMPORTANT**: Do not use any device to hammer the unit onto the output shaft during installation since the bearing races could be damaged.

If you have questions about installation, operation, or maintenance of your STOBER unit, please contact STOBER Technical Support.

# "K" Series Food & Beverage Standard – 3 Year Warranty

Standard Coating – Industrial 316 Stainless Steel Epoxy
Stainless Steel Nameplate
All Stainless Steel Hardware

Inside Split Cover Cap – enables easy assembly onto the shaft



NEMA C-face Input – O-ring between motor and reducer

Easy mount, maintenance free coupling

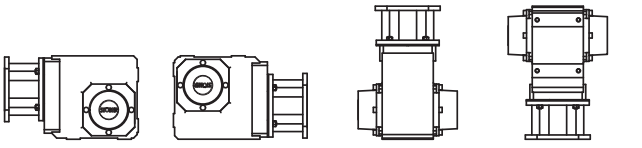
Outside Cover Cap – with O-ring to protect seals from high pressure washing

Patented* (U.S. Patent No. 5,496,127) Stainless Steel Double Sided Bushing Mounted into Stainless Steel Output Quill – easily mounts onto standard cold finished, ground, or stainless shafting

Double Sealed Output – with a dual lip outer seal and a single lip inner seal

Lubricated for Life

One Standard Unit for ALL Horizontal Mounting Positions Without Changing the Oil Level



**EL1** **EL2** **EL5** **EL6**

**Possible but not recommended**




STOBER Part No. Explanation:

**K402WG0250MR200/180B**

K .....Right Angle Helical/Bevel Unit
402.....Size 4, 0 Generation, 2 Stage Gearing
W .....Wobble Free Bushing Output Style
G.....Tapped Hole Housing Style
0250.....25:1 Approximate Ratio
MR200.....Size of Motor Adapter
180.....Fits NEMA 182/184TC Motor Frame
B .....Beverage Duty Unit

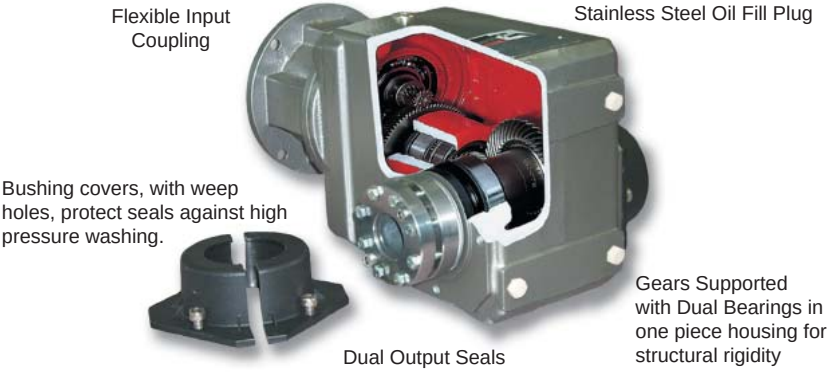
**WFB4-107**

WFB.....Double Wobble Free Bushing
4.....Fits K402/K403 Reducer
107.....Bore Size ($1^{7}/_{16}$")

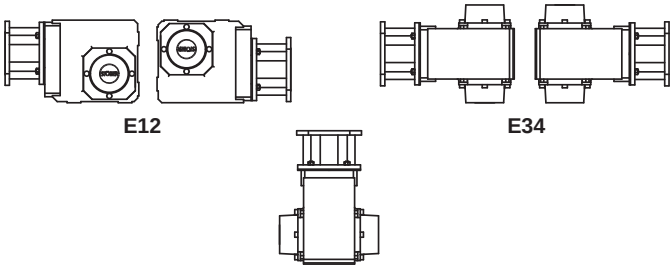
# "K" Series Food & Beverage Long Life – 5 Year Warranty

- 5 Year Warranty
- New, Improved Input
- Synthetic Oil
- Application Specific Mounting Position

Maintenance Free Long Life
- New Input Design
- SHC630 Synthetic Oil




Application Specific Mounting Positions







STOBER Part No. Explanation:

**K402WG0250MR200/180BLL EL34**

| | |
|---|---|
| K | Right Angle Helical/Bevel Unit |
| 402 | Size 4, 0 Generation, 2 Stage Gearing |
| W | Wobble Free Bushing Output Style |
| G | Tapped Hole Housing Style |
| 0250 | 25:1 Approximate Ratio |
| MR200 | Size of Motor Adapter |
| 180 | Fits NEMA 182/184TC Motor Frame |
| B | Beverage Duty Unit |
| LL | Long Life – 5 Year Warranty |
| EL34 | Mounting Position Must be Specified |

**WFB4-107**

| | |
|---|---|
| WFB | Double Wobble Free Bushing |
| 4 | Fits K402/K403 Reducer |
| 107 | Bore Size ($1\frac{7}{16}$") |

# WFB – Double Bushing Kit Sizes

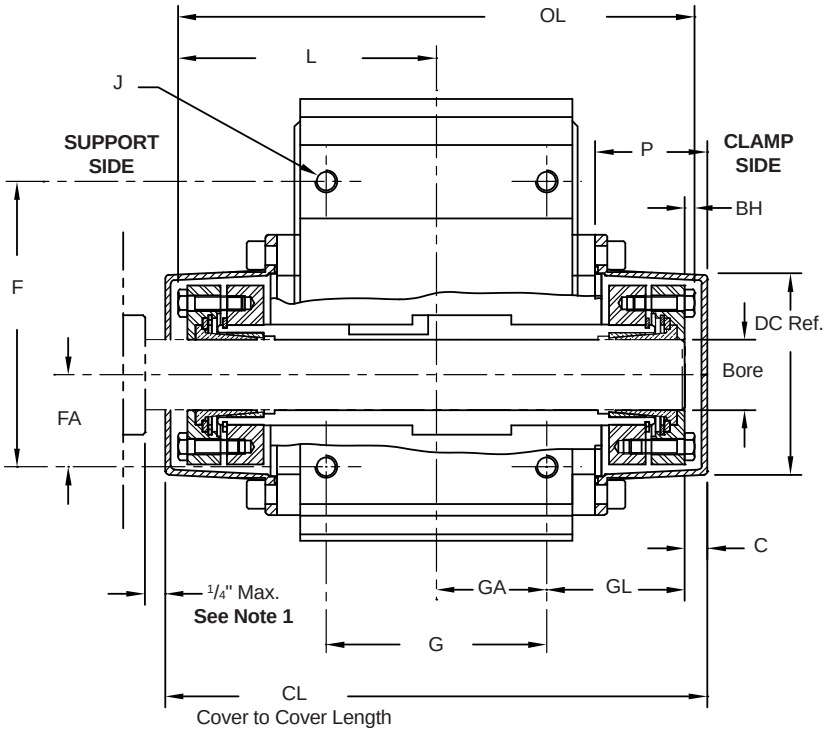
**Table No. 1**
**Stock Bushing Kits - Inch**

| Bore Size Inches | Bushing Part No. |
|---|---|
| 1 | WFB1-100 |
| 1 | WFB2-100 |
| 1 3/16 | WFB2-103 |
| 1 | WFB3-100 |
| 1 3/16 | WFB3-103 |
| 1 1/4 | WFB3-104 |
| 1 3/8 | WFB3-106 |
| 1 7/16 | WFB3-107 |
| 1 1/2 | WFB3-108 |
| 1 | WFB4-100 |
| 1 3/16 | WFB4-103 |
| 1 1/4 | WFB4-104 |
| 1 3/8 | WFB4-106 |
| 1 7/16 | WFB4-107 |
| 1 1/2 | WFB4-108 |
| 1 7/16 | WFB5-107 |
| 1 1/2 | WFB5-108 |
| 1 5/8 | WFB5-110 |
| 1 11/16 | WFB5-111 |
| 1 3/4 | WFB5-112 |
| 1 7/8 | WFB5-114 |
| 1 15/16 | WFB5-115 |
| 2 | WFB5-200 |
| 1 7/16 | WFB6-107 |
| 1 1/2 | WFB6-108 |
| 1 5/8 | WFB6-110 |
| 1 11/16 | WFB6-111 |
| 1 3/4 | WFB6-112 |
| 1 15/16 | WFB6-115 |
| 2 | WFB6-200 |
| 2 3/16 | WFB6-203 |
| 1 15/16 | WFB7-115 |
| 2 | WFB7-200 |
| 2 3/16 | WFB7-203 |
| 2 3/8 | WFB7-206 |
| 2 3/16 | WFB8-203 |
| 2 3/8 | WFB8-206 |
| 2 7/16 | WFB8-207 |
| 2 3/4 | WFB8-212 |

**Table No. 2**
**Stock Bushing Kits – Metric**

| Bore Size mm | Bushing Part No. |
|---|---|
| 25 | WFB1-25 |
| 30 | WFB2-30 |
| 30 | WFB3-30 |
| 35 | WFB3-35 |
| 40 | WFB4-40 |
| 40 | WFB5-40 |
| 40 | WFB6-40 |

# Mounting Dimensions
# Recommended Shaft Length




**Important:** A 1/32 x 45° chamfer minimum is recommended for the shaft end.

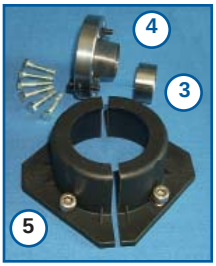
**Table No. 1 Mounting Dimensions (Inches)**

| Unit Size | BH | C | CL | DC | F | FA | G | GA | GL | J | L | OL | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **K102** | .16 | .24 | 7.80 | 3.07 | 3.54 | 1.18 | 2.76 | 1.38 | 2.28 | M8 | 3.82 | 7.64 | 1.97 |
| **K202/K203** | .16 | .39 | 9.36 | 3.46 | 4.53 | 1.38 | 3.54 | 1.77 | 2.52 | M10 | 4.45 | 8.90 | 2.05 |
| **K302/K303** | .16 | .43 | 9.95 | 3.78 | 5.12 | 1.57 | 4.13 | 2.07 | 2.47 | M12 | 4.70 | 9.41 | 2.09 |
| **K402/K403** | .20 | .47 | 11.60 | 4.33 | 6.10 | 1.97 | 4.72 | 2.36 | 2.97 | M12 | 5.53 | 11.06 | 2.40 |
| **K513/K514** | .20 | .43 | 12.09 | 4.54 | 5.51 | 1.57 | 4.92 | 2.46 | 3.15 | M16 | 5.81 | 11.63 | 2.40 |
| **K613/K614** | .24 | .51 | 13.22 | 5.00 | 6.30 | 1.97 | 5.12 | 2.56 | 3.54 | M16 | 6.34 | 12.68 | 2.68 |
| **K713/K714** | .24 | .39 | 15.36 | 5.75 | 7.09 | 2.17 | 5.71 | 2.85 | 4.44 | M20 | 7.53 | 15.06 | 2.91 |
| **K813/K814** | .31 | .64 | 18.68 | 6.95 | 9.45 | 2.95 | 7.28 | 3.64 | 5.06 | M24 | 9.01 | 18.02 | 3.43 |

**Table No. 2 Recommended Shaft Length (Inches)**

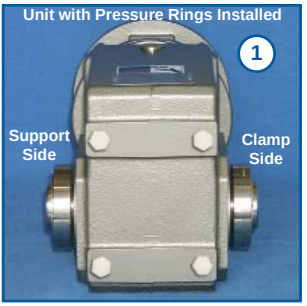
| Unit Size | K1 | K2 | K3 | K4 | K5 | K6 | K7 | K8 |
|---|---|---|---|---|---|---|---|---|
| Length | 7.81 | 9.22 | 9.77 | 11.38 | 11.91 | 12.96 | 15.22 | 18.29 |

# Double Side Bushing Installation




**Support Side Bushing Components**

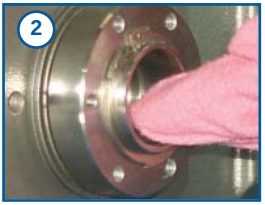
The Support Side is the bushing with the coating on the cone. Do NOT use cleaner on the coated cone.







**Clamp Side Bushing Components**




Be sure the inside of the quill is free of grease and oil before installing the tapered cones.

## Support Side Installation

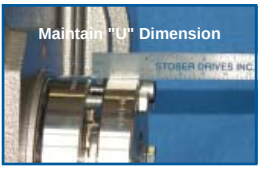



K1 units do not have tapered cones.




Install the Flanged Cone Assembly (4) with it's slot opposite the slot in the tapered cone (3).




The "U" distance (between the rings) determined by the spacer bolts (see opposite page) must be maintained throughout assembly of the bushing and mounting onto the shaft. Therefore DO NOT tighten the capscrews or remove the spacer bolts until the unit is mounted on the shaft.




## Clamp Side Installation



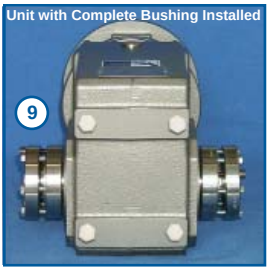

K1 units do not have tapered cones.




Install the Flanged Cone Assembly (7) with it's slot opposite the slot in the tapered cone (6).



# Double Side Bushing Installation























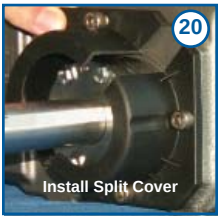











Tighten all capscrews to the torque shown in Table 1. Use a torque wrench. The tightening should be done gradually in a rotating sequence and will require more than one rotation.

**After two hours (minimum) running time, check capscrews and retighten, if necessary.**



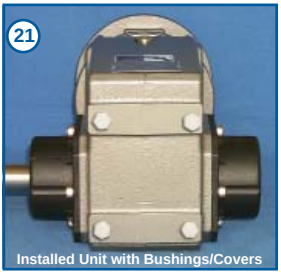




**Table No. 1 Recommended Tightening Torque**

| Base Module | Capscrews Qty. | Capscrews Size x mm Lgth | Tight. Torque Nm. | Tight. Torque in. lbs. | U mm | U ins. | Spacer Bolts – mm |
|---|---|---|---|---|---|---|---|
| KL202 | 6 | M5×0.8×25 | 6 | 53 | 4 | .15 | M5×0.8×20 |
| KSS102 | 6 | M6×1×25 | 10 | 89 | 5 | .20 | M6×1×20 |
| KSS202 | 8 | M6×1×25 | 10 | 89 | 5 | .20 | M6×1×20 |
| KSS302/303 | 8 | M6×1×25 | 10 | 89 | 5 | .20 | M6×1×20 |
| K102 | 6 | M6×1×25 | 10 | 89 | 5 | .20 | M6×1×20 |
| K202/K203 | 6 | M6×1×30 | 10 | 89 | 5 | .20 | M6×1×20 |
| K302/F303 | 8 | M6×1×30 | 10 | 89 | 5 | .20 | M6×1×20 |
| K402/K403 | 8 | M8×1.25×30 | 25 | 221 | 6 | .24 | M8×1.25×20 |
| K513/K514 | 8 | M8×1.25×30 | 25 | 221 | 7 | .28 | M8×1.25×25 |
| K613/K614 | 8 | M10×1.5×35 | 49 | 434 | 8.5 | .33 | M10×1.5×25 |
| K713/K714 | 8 | M10×1.5×40 | 49 | 434 | 5.5 | .22 | M10×1.5×25 |
| K813/K814 | 8 | M12×1.75×40 | 85 | 752 | 7 | .28 | M12×1.75×45 |

# Motor Mounting Instructions

**CAUTION: If the motor coupling is not installed correctly, the input bearing may fail due to pre-load. This will void the warranty of the reducer and possibly fail the motor.**

### Step 1.
Locate the Motor Coupling on the Motor Shaft.



Accurate placement of the motor coupling on the shaft is vital to mounting the motor correctly. Mount the coupling with the hub projection toward the step or shoulder of the motor. The motor coupling should be located from the motor face the "XL" distance shown in Table No. 1.

**Table No. 1 Location of Motor Coupling**

| Adapter Part No. | "XL" | |
|---|---|---|
| | mm | inches |
| **MR140/050** | 24.5 | .96 |
| **MR160/050** | 28 | 1.1 |
| **MR160/140** | 26 | 1.0 |
| **MR200/050** | 39 | 1.5 |
| **MR200/140** | 41 | 1.6 |
| **MR200/180** | 31 | 1.2 |
| **MR250/180** | 36 | 1.4 |
| **MR250/210** | 34 | 1.3 |

"XL" Tolerance – +1mm / -0mm (+0.040 / -0.000 inches)

### Step 2.
Tighten the Setscrew



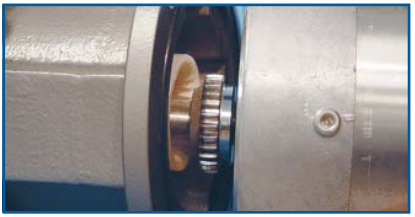
With the coupling hub located at the correct distance, tighten the setscrew in the coupling.

### Step 3.
Secure the Motor Shaft Key.

For ease of installation, secure the motor shaft key. Staking near the end of the keyway, on the sides of the key, or a temporary adhesive works well.



### Step 4.
Mount the Motor.



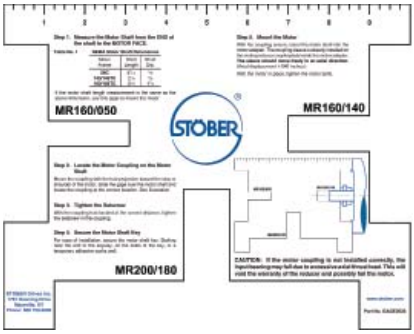
With the coupling secure, insert the motor shaft into the motor adapter. The coupling sleeve is already installed on the mating reducer coupling hub inside the motor adapter. **The sleeve should move freely in an axial direction.** (Axial displacement ±.040 inches.)

With the motor in place, tighten the motor bolts.

Some motor manufacturers provide a drain hole in the mounting face of washdown motors. In some mounting positions, water or other material can enter the motor adapter and fail the bearing.



Be sure this hole is covered during washing or when the unit is in a wet environment. This illustration shows the method that STOBER assembly personnel use to plug the hole.




For ease of motor coupling hub location and installation, as an option, STOBER has available a motor hub mounting gage (Part No. GAGE2033) to fit the most popular sizes of motor adaper (MR160/050, MR160/140 and MR200/180).

This simple-to-use gage rapidly positions the motor coupling hub on the shaft.

Step 1. Locate the side of the gage that matches the motor adapter of the reducer. The part number on the nameplate will indicate this number.

Step 2. Place the coupling hub on the motor shaft.

Step 3. Place the gage on the motor face, over the motor shaft, and hold the coupling flush with the counterbore of the gage.

Step 4. Tighten the setscrew.




To order, contact *sales@stober.com*.

Shown in Table No. 1 is the motor coupling hub and sleeve part number for the STOBER Food and Beverage Duty MGS® motor adapter. These parts, with a coupling shaft component that is part of the reducer, make a complete coupling to connect the motor to the reducer.

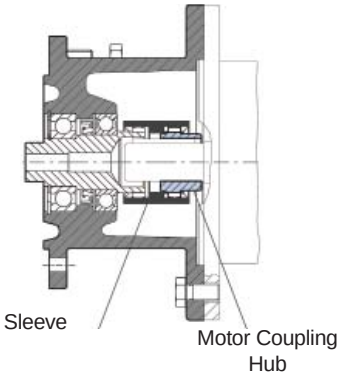



**Table No. 1**
**Couplings for MR Motor Adapters**

| Motor Adapter | NEMA Frame | Motor Hub | Sleeve |
|---|---|---|---|
| **MR140/050B** | 56C | **M-19x5/8** | **M-19** |
| **MR160/050B** | 56C | **M-24x5/8** | **M-24** |
| **MR160/140B** | 143/145TC | **M-24x7/8** | **M-24** |
| **MR200/050B** | 56C | **M-32x /8** | **M-32** |
| **MR200/140B** | 143/145TC | **M-32x7/8** | **M-32** |
| **MR200/180B** | 182/184TC | **M-32x1 1/8** | **M-32** |
| **MR250/180B** | 182/184TC | **M-38x1 1/8** | **M-38** |
| **MR250/210B** | 213/215TC | **M-38x1 3/8** | **M-38** |

# Reducer Removal Instructions

## LOCK OUT – TAG OUT

Before beginning maintenance on your STOBER food and beverage duty reducer, follow your companies procedures for lock out, tag out.

### Step 1

Remove the solid cover from the Clamp Side bushing of the reducer. This should be the outside bushing.



Loosen and remove all the hex head bushing bolts.

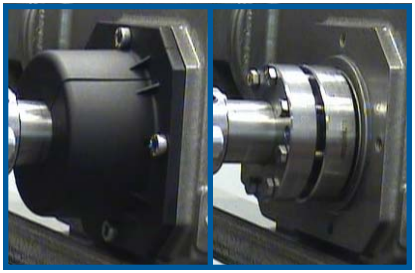


Place 2 of the hex head bolts into the back out holes and tighten slightly to apply pressure to the bushing.

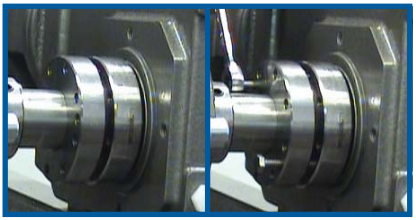
DO NOT try to use the bolts to break the bushing free. Excessive tightening can twist off the bolt head.

### Step 2

Remove the split cover from the Support Side of the reducer. The inside bushing should be the Support Side, if the reducer was installed properly. This side has the Teflon coated cone and should break free easily.



Loosen and remove all of the hex head bushing bolts from the Support Side.



If there is room to do so, place two of the hex head bolts into the back out holes and tighten slightly to apply pressure to the bushing.

### Step 3

Place a wedge between the two bushing rings and tap with a hammer. If the bushing does not break free, apply more pressure by tightening the bolts, and tap again.

The bushing should break free.



### Step 4

Remove the Clamp Side bushing.



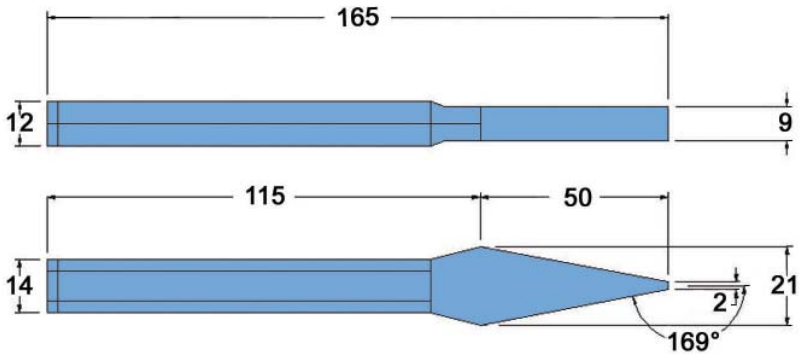
### Step 5

Remove the reducer from the shaft.



**Contact STOBER Drives for more information.**

## Clamp Ring Release Wedge



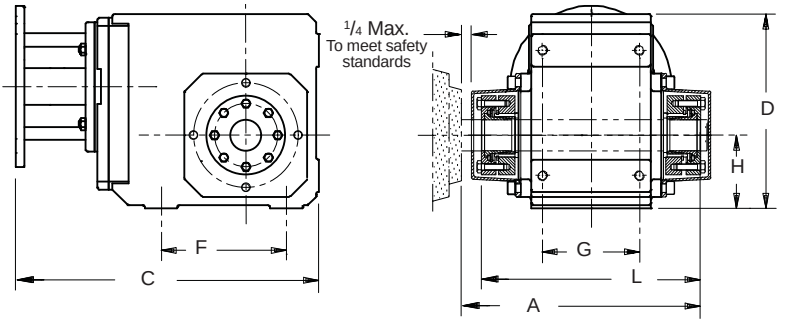

**Dimensions are shown in millimeters.**

When tightening capscrews in any STOBER MGS reducer, use the values in the following table. These values apply to capscrews for foot mounting, flange mounting, or torque arm mounting.

**Table No. 1 Capscrew Tightening Torque**

| Capscrew | Standard Steel | | Stainless Steel | |
|---|---|---|---|---|
| Size | Nm. | in. lbs. | Nm. | in. lbs. |
| M6 | 15 | 133 | 10 | 89 |
| M8 | 36 | 318 | 25 | 221 |
| M10 | 72 | 637 | 49 | 434 |
| M12 | 125 | 1,106 | 85 | 752 |
| M16 | 310 | 2,744 | 210 | 1,858 |
| M20 | 610 | 5,398 | 425 | 3,761 |
| M24 | 1,050 | 9,292 | 730 | 6,460 |
| M30 | 2,100 | 18,585 | 1,450 | 12,832 |
| M36 | 3,700 | 32,745 | 2,600 | 23,010 |

# Competitive Comparison




## Table No. 1 Unit Dimensions (Ins.)

| Part No. | A | D | F | G | H | L |
|---|---|---|---|---|---|---|
| **STOBER** | | | | | | |
| **K302/K303** | 9.77 | 8.39 | 5.12 | 4.13 | 2.95 | 9.08 |
| **K402/K403** | 11.38 | 9.45 | 6.10 | 4.72 | 3.54 | 10.66 |
| **K513/K514** | 11.91 | 10.24 | 5.51 | 4.92 | 6.30 | 11.22 |
| **K613/K614** | 12.96 | 12.20 | 6.30 | 5.12 | 7.48 | 12.20 |
| **SEW** | | | | | | |
| **KA47** | 6.16 | 7.28 | 6.69 | 2.76 | 4.41 | 5.91 |
| **KA57** | 6.79 | 8.46 | 7.17 | 3.46 | 5.20 | 6.54 |
| **KA67** | 7.34 | 8.90 | 7.17 | 3.46 | 5.51 | 7.09 |
| **KA77** | 8.52 | 11.26 | 8.03 | 4.02 | 7.09 | 8.27 |
| **DODGE** | | | | | | |
| **30Q** | 8.01 | 8.88 | 7 | 4 | 3.25 | 7.76 |
| **35Q** | 8.99 | 10.57 | 7.5 | 4 | 3.99 | 8.74 |
| **40Q** | 10.07 | 11.52 | 8.5 | 5 | 4.44 | 9.82 |
| **47Q** | 12.13 | 13.75 | 11 | 5.81 | 5.31 | 11.88 |
| **NORD** | | | | | | |
| **SK9012** | 6.08 | 7.64 | 5.12 | 4.72 | 4.41 | 5.83 |
| **SK9022** | 7.34 | 9.29 | 4.72 | 5.51 | 5.51 | 7.09 |
| **SK9032** | 8.52 | 11.61 | 5.91 | 6.5 | 7.09 | 8.27 |
| **SK9042** | 9.7 | 13.66 | 7.09 | 7.09 | 8.35 | 9.45 |
| **BOSTON** | | | | | | |
| **SF718** | 6.38 | 5.75 | 4.19 | 2.75 | 2.06 | 5.69 |
| **SF721** | 6.57 | 6.38 | 5.00 | 5.88 | 2.28 | 5.88 |
| **SF716** | 7.16 | 8.00 | 6.38 | 3.38 | 2.94 | 6.47 |
| **SF732** | 8.75 | 9.38 | 7.50 | 4.00 | 3.50 | 8.06 |
| **WINSMITH** | | | | | | |
| **E17** | 6.60 | 5.38 | 1.76 | 3.88 | 2.13 | 6.60 |
| **E20** | 7.12 | 5.63 | 1.76 | 4.38 | 2.13 | 7.12 |
| **E24** | 7.45 | 7.25 | 2.26 | 4.38 | 2.88 | 7.45 |
| **E26** | 7.58 | 7.88 | 2.26 | 4.88 | 3.13 | 7.58 |
| **E30** | 8.07 | 9.00 | 2.62 | 5.50 | 3.50 | 8.07 |
| **E35** | 8.47 | 10.13 | 2.62 | 6.50 | 4.00 | 8.47 |
| **E43** | 9.50 | 11.50 | 3.26 | 7.50 | 4.38 | 9.50 |

## Table No. 2 “C” Dims. (Ins.)

| **STOBER** | 56C | 140TC | 180TC |
|---|---|---|---|
| **K302** | 12.68 | 13.38 | 14.40 |
| **K303** | 14.13 | 15.08 | – |
| **K402** | 14.76 | 14.76 | 15.74 |
| **K403** | 15.51 | 16.46 | – |
| **K513** | 14.57 | 14.57 | 15.59 |
| **K514** | 16.26 | 16.26 | – |
| **K613** | 16.10 | 16.10 | 17.12 |
| **K614** | 17.79 | 17.79 | – |
| **SEW** | | | |
| **KA47** | 13 | 13.92 | 15.38 |
| **KA57** | 14.02 | 14.93 | 16.40 |
| **KA67** | 14.22 | 15.14 | 16.60 |
| **KA77** | 15.47 | 16.35 | 17.77 |
| **DODGE** | | | |
| **30Q** | 10.58 | 10.58 | 11.39 |
| **35Q** | 11.92 | 11.92 | 12.16 |
| **40Q** | 14.15 | 14.15 | 14.39 |
| **47Q** | 15.46 | 15.46 | 15.70 |
| **NORD** | | | |
| **SK9012** | 13.87 | 13.87 | 15.02 |
| **SK9022** | 15.92 | 15.92 | 17.07 |
| **SK9032** | 17.16 | 17.16 | 19.16 |
| **SK9042** | 19.22 | 19.22 | 22.82 |
| **BOSTON** | | | |
| **SF718** | 7.44 | 7.44 | N/A |
| **SF721** | 8.06 | 8.06 | N/A |
| **SF716** | 9.44 | 9.44 | 9.88 |
| **SF732** | 11.06 | 11.06 | 11.50 |
| **WINSMITH** | | | |
| **E17** | 7.50 | 7.50 | – |
| **E20** | 7.50 | 7.50 | – |
| **E24** | 9.88 | 9.88 | 9.88 |
| **E26** | 9.88 | 9.88 | 9.88 |
| **E30** | 10.19 | 10.19 | 10.19 |
| **E35** | 11.27 | 11.27 | 11.27 |
| **E43** | 12.91 | 12.91 | 12.91 |

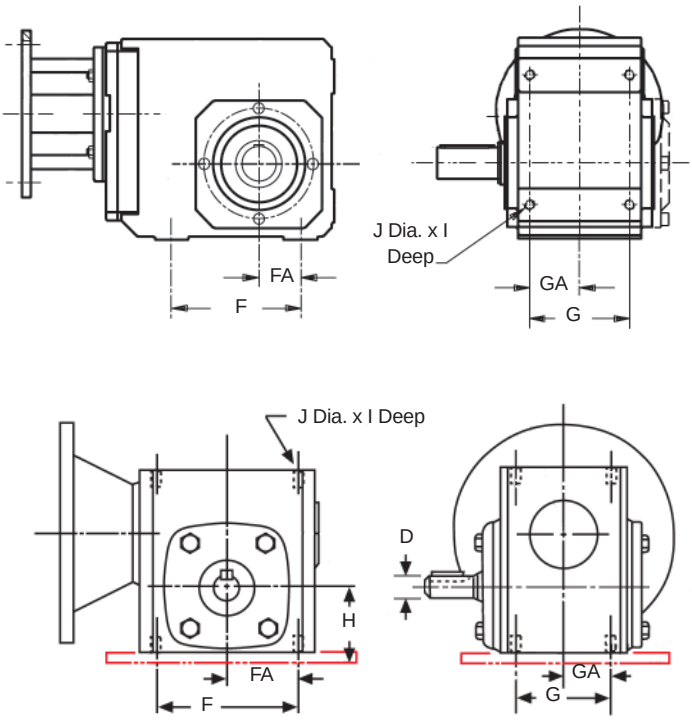



**Table No. 1 Unit Dimensions (Ins.)**

| Part No. | D | FA | F | GA | G | H | I | J |
|---|---|---|---|---|---|---|---|---|
| **STOBER** | | | | | | | | |
| **K102** | 1.000 | 1.18 | 3.54 | 1.38 | 2.76 | 2.94 | .51 | M8 |
| **K202/K203** | 1.250 | 1.38 | 4.53 | 1.77 | 3.54 | 3.42 | .63 | M10 |
| **K302/K303** | 1.250 | 1.57 | 5.12 | 2.07 | 4.13 | 3.82 | .63 | M10 |
| **K402/K403** | 1.375 | 1.97 | 6.10 | 2.36 | 4.72 | 4.41 | .75 | M12 |
| **BOSTON** | | | | | | | | |
| **718** | .875 | 2.09 | 4.19 | 1.38 | 2.75 | 2.75 | .50 | 5/16-18 |
| **721** | 1.000 | 2.50 | 5.00 | 1.44 | 2.88 | 3.00 | .56 | 3/8-16 |
| **724** | 1.125 | 2.50 | 5.00 | 1.44 | 2.88 | 3.25 | .56 | 3/8-16 |
| **726** | 1.125 | 3.19 | 6.38 | 1.69 | 3.38 | 3.69 | .56 | 3/8-16 |
| **730** | 1.250 | 3.50 | 7.00 | 2.00 | 4.00 | 4.00 | .88 | 7/16-14 |
| **732** | 1.375 | 3.75 | 7.50 | 2.00 | 4.00 | 4.38 | .66 | 7/16-14 |
| **738** | 1.625 | 4.25 | 8.50 | 2.38 | 4.75 | 4.81 | .81 | 1/2-13 |

## Contact Information

**sales@stober.com** – to send an order, request a sales call, or ask for product information by e-mail.

**lit@stober.com** – to request any literature (catalogs, brochures, price sheets, etc.)

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