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ALTRA MOTION

Worm, Helical and Bevel Gear Drives



Boston Gear®
Altra Industrial Motion

Boston Gear



Boston Gear offers the industry's largest line up of reliable speed reducers, gearing and other quality drivetrain components.

With more than 125 years of frontline experience, Boston Gear is recognized globally as a premier resource for extremely reliable, high-performance power transmission components. Boston Gear offers the industry's most comprehensive product array featuring more than 30,000 standard products combined with the ability to custom engineer unique solutions when required. Product lines include standard enclosed gear drives, custom speed reducers, AC/DC motors, DC drives and Centric brand overload clutches and torque limiters.



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Altra Motion

Altra is a leading global designer and producer of a wide range of electromechanical power transmission and motion control components and systems. Providing the essential control of equipment speed, torque, positioning, and other functions, Altra products can be used in nearly any machine, process or application involving motion. From engine braking systems for heavy duty trucks to precision motors embedded in medical robots to brakes used on offshore wind turbines, Altra has been serving customers around the world for decades.

Altra's leading brands include **Ameridrives**, **Bauer** Gear Motor, **Bibby** Turboflex, **Boston** Gear, **Delevan**, **Delroyd** Worm Gear, **Deltran**, **Formsprag** Clutch, **Guardian** Couplings, **Huco**, **Jacobs** Vehicle Systems, **Kilian**, **Kollmorgen**, **Lamiflex** Couplings, **Marland** Clutch, **Matrix**, **Nuttall** Gear, **Portescap**, **Stieber**, **Stromag**, **Svendborg** Brakes, **TB Wood's**, **Thomson**, **Twiflex**, **Warner** Electric, **Warner** Linear and **Wichita** Clutch.

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700 Series Features

- Precision ground worm threads maximize gearbox efficiency. At low ratio's efficiencies of 90 to 95% are common.
- The 700 Series' large oil reservoir provides efficient heat dissipation and lubrication for longer operating life.
- Its multi-position mounting flexibility allows for installation in virtually any position.
- Housings are straddle-milled, top and bottom, for precise alignment of horizontal and vertical bases.
- Internal baffles assure positive, leak-free venting.
- The 700 Series' rugged housing, fabricated of fine-grained, gear-quality cast iron, provides maximum strength for maximum durability, as well as greater precision during worm and gear alignment.
- Boston Gear's 700 Series high-strength bronze worm gear is straddle mounted between heavy-duty tapered roller bearings to increase thrust and overhung load capacities, sizes 713-760.
- Our 700 Series' high strength steel output shaft assures capacity for high torque and overhung loads.
- Pipe plugs allow easy fill, level, and drain in any mounting position
- The 700 Series' super-finished oil-seal diameters on both input and output shafts extend seal life.
- Both 2D and 3D CAD drawings are available from ECatalog/3D Drawings at www.bostongear.com
- Their availability via Reducer Express™, Boston Gear's innovative guaranteed delivery program, means never having to wait.

200 Series Optimount™ Features

- Superior machining affords highly accurate alignment for exceptional performance - an especially important consideration when purchasing a speed reducer for use as an integral part in OEM equipment.
- Standard hollow output shafts allow gear drives to be connected directly to the drive train, increasing overall efficiency.
- Optional shaft and base kits allow conversion of the reducer to a stand-alone gear drive for greater flexibility.
- Washdown units are available in white or stainless steel epoxy coatings, both USDA certified and approved.
- Horizontal and vertical base mounted configurations make the Optimount™ series extremely versatile.
- Their availability via Reducer Express™, Boston Gear's innovative guaranteed delivery program, means never having to wait.
- CAD drawings are available from ECatalog/3D Drawings at www.bostongear.com

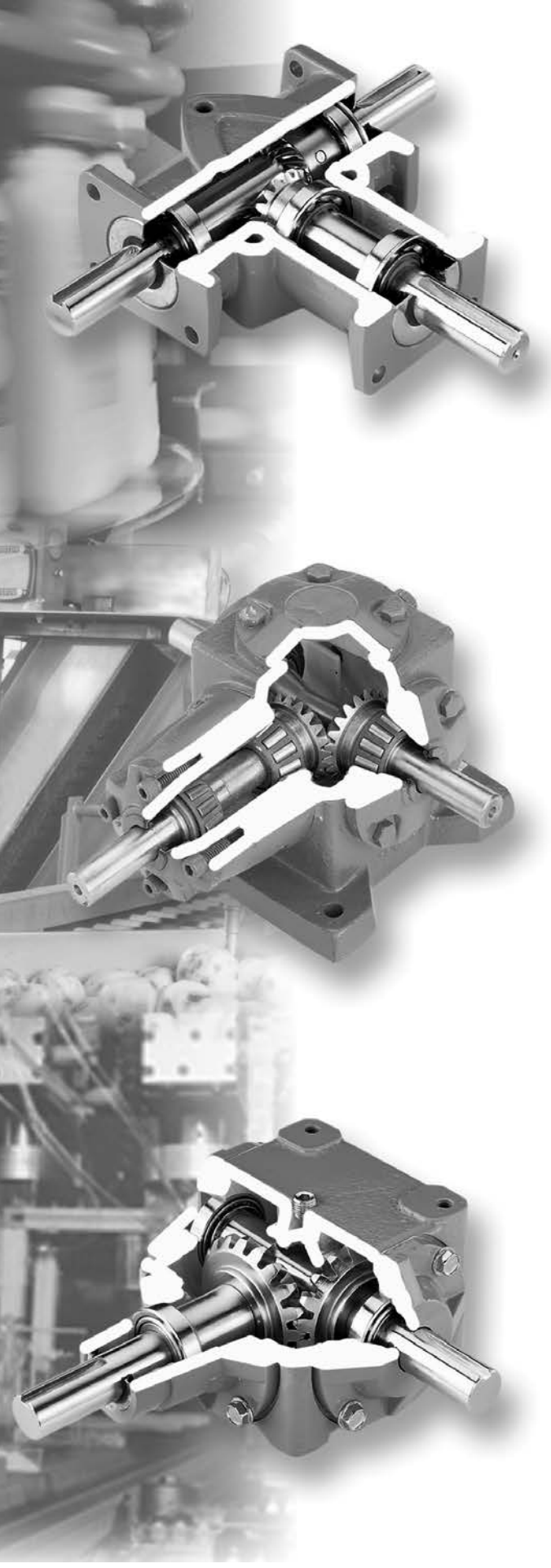


800 Series Features

- Because the 800 Series is dimensionally interchangeable with many U.S. and European in-line helical gear drives, it offers maximum flexibility.
- The standard NEMA C-face design will accept any standard NEMA motor, making it exceptionally versatile.
- Ratios up to 70:1 in just two stages means increased efficiency and reduced case size.
- Accessible oil seals simplify routine product maintenance.
- 800 Series drives come pre-filled with synthetic lubrication for your specific mounting position. Sizes 3 and 4 are lubricated for life which promotes trouble-free operation.
- An original Boston Gear design available from our ISO 9001:2015 certified speed reducer facility.
- Washdown duty units in white or stainless steel epoxy coatings make these gear drives ideal for the most severe washdown environments.
- CAD drawings are available from ECatalog/3D Drawings at www.bostongear.com
- Their availability via Reducer Express™, Boston Gear's innovative guaranteed delivery program, means never having to wait.

600 Series Features

- A selection comprising six common sizes permits use in many different applications.
- All Models are a more compact quill style
- Single, double, and triple reduction models provide a wide array of ratios for increased versatility.
- Base-mount and output-flange-mount models further increases versatility.
- The 600 Series is assembled in Boston Gear's ISO 9001:2015-certified facility to ensure precise quality control.
- Available in White BK and Stainless Steel Bost-Kleen™ options.



Right 90 Series Features

- Our spiral-bevel gear drives are designed for performance that's reliable, efficient, and as noise-free as possible.
- Input and output shaft flanges simplify mounting and installation.
- These gear drives can be used to either reduce or increase speed.
- Single and double-projecting output shafts for application flexibility.
- Ground alloy steel shafts are mounted on precision ball bearings for smooth operation.
- Pre-lubrication designed to last for the life of the drive improves performance and reduces maintenance.
- Boston Gear's Guaranteed Same Day Shipment Program ensures that you get what you need when you need it.

R100/R200 Series Features

- These spiral-bevel gear drives are designed for operation that's as reliable as it is quiet.
- Their shafts are heat treated and alloy-steel mounted on heavy-duty, tapered roller bearings for smoother operation.
- Their housings are made of precision-machined cast iron to ensure accurate, permanent alignment of the gears for superior performance.
- Double-bearing input support extends horsepower capacity and increases durability.
- Because the R-VR Series is available through Boston Gear's Guaranteed Same Day Shipment Program, it's the one you can count on to be there when you need it.

R1000 Series Features

- Straight-tooth bevel gears have teeth that are made from precision-forged alloy steel for maximum strength, as well a case hardened for increased durability.
- Input and output shafts are constructed from ground and polished heat-treated alloy steel to further enhance the overall toughness of these drives.
- Precision-machined, one-piece, quality cast-iron housings mean less maintenance and greater reliability.
- For greater support and rigidity, all shafts are supported by two tapered-roller bearings, while several models offer a straddle design with the gears supported on both sides.
- Flush-types vented-filler plugs with sintered-bronze breather inserts further reduce contamination.
- Boston Gear's Guaranteed Same Day Shipment Program ensures that you get what you need when you need it.

Our Quality Policy

Driven by the voice of the customer and total associate involvement, Boston Gear will strive, through continuous improvement, to provide products and services that meet or exceed customer expectations.

www.bostongear.com

Boston Gear's new, easy to navigate web site offers a variety of tools designed to simplify the selection and ordering process. Powered by advanced Internet XML technology, www.bostongear.com offers 24 hour access to the industry's premier source for power transmission information:

- **ECatalog/3D Drawings – Boston Gear's award winning open and enclosed gearing configurator. Based upon your applications requirements, select from over 84,000 parts, view specifications, even download CAD drawings**
- **Products – get the most current product information, features, benefits, or application data**
- **Literature – all of Boston Gear's catalogs, brochures, specification sheets, and installation manuals are available for immediate down loading**
- **Distributor Locator – find your local stocking Boston Gear distributor**

Whether you're looking to design a worm gear speed reducer to fit your application, get information on Boston Gear's newest products, or receive the latest news about the company, www.bostongear.com is your answer.

The Second Century of Service

Started in 1877 as a machine shop making gear cutting machines, Boston Gear has led the growth of the power transmission industry for more than a century. In its early years, Boston Gear introduced the concepts of gear standardization and stock gears – innovations of enormous benefit to power transmission system designers, specifiers and users.

Boston Gear was the early pioneer in enclosed drives, a category it still dominates with dependable, high-performance products like Worm, Helical and Bevel Gear Drives.

Today, Boston Gear provides the widest range of integrated motion control products from one source. The convenience of this single-source capability is yours when you deal with Boston Gear.

Engineering Services

The Boston Gear Engineering Group can satisfy your technical needs through skillful application of standard products or development of custom designs. Creating specials is an important aspect of customer service. It is supported by R & D personnel who use microprocessor-controlled equipment to collect and monitor data on materials and product performance.

Computer-Aided-Design (CAD) systems help Boston Gear engineers create new approaches to broad industrial challenges or specific customer needs. Computer simulation and testing at critical stages ensure that their designs are practical.

Manufacturing Excellence

Boston Gear manufactures more than 50,000 products in-house at our operations in Charlotte, North Carolina. Production is efficiently organized into manufacturing cells under group technology. For example, turning and grinding are combined under the control of a single operator in each cell. This approach encourages a sense of responsibility and pride of workmanship, to gain consistently high-quality output.

Computerized production control provides close supervision over scheduling and resource planning, coupled with the flexibility to fit your requirements smoothly into the master schedule. Other dedicated computer controls within the production department govern the ordering and delivery functions to keep operations lean and efficient.

Product Selection / Reference Guide

700 Series Single Reduction Flanged & Non-Flanged Reducers

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Optimount® F200 Series Hollow Shaft Helical Gear Flanged Input

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Optimount® 200 Series Hollow Shaft Helical Gear Non-Flanged Input

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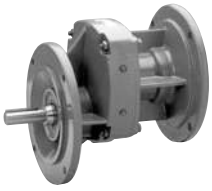
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Right-90 Series
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R100/R200 VR100/VR200 Series Spiral Bevel



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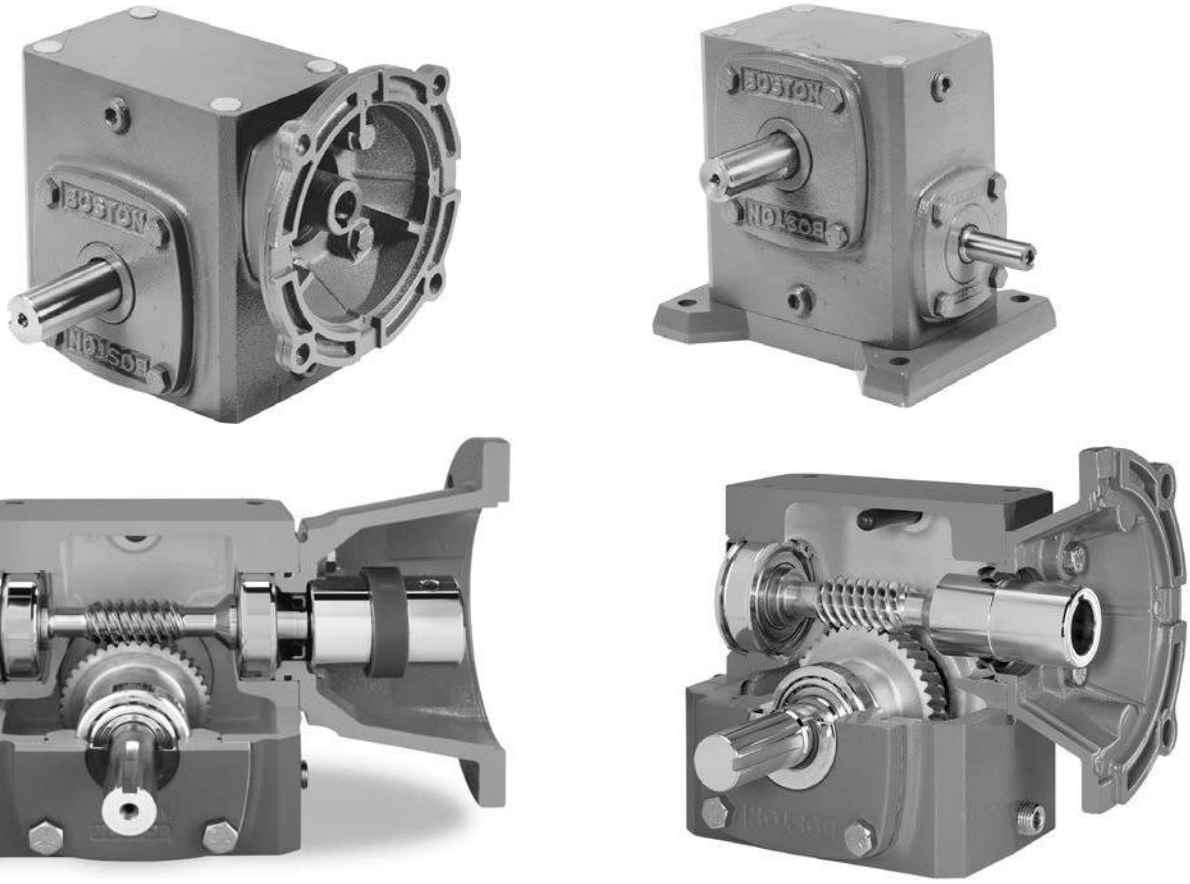
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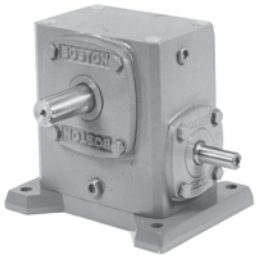
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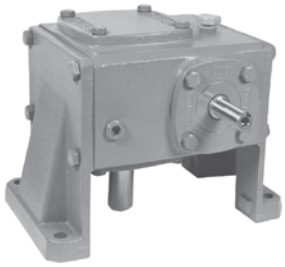
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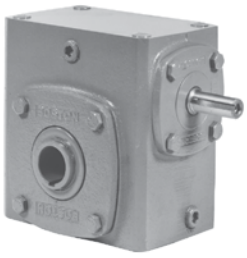
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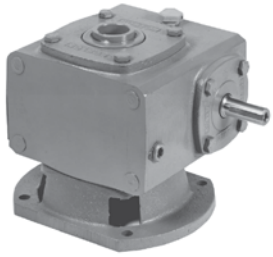
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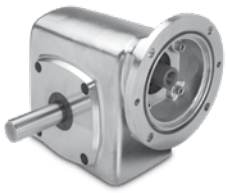
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SSFSP5
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A

700 Series Right Angle Worm Gearbox - Single Reduction

SBKC H QC 7 38 B – 40 K E Z T – B7 –

Reducer Material/Paint
Blank–Cast Iron, Std. Gray paint
BKC – Cast Iron, White *BostKleen* paint
SBKC– Cast Iron, Stainless *BostKleen* paint
SS – Stainless Steel material – no paint

Output Shaft Style
Blank–Solid Output Shaft
H – *BostMount* Hollow Output (setscrews both sides, bore size selectable)
S – Hollow Output (setscrews one side, bore size fixed)

Input Shaft Style
Blank–Solid Projecting Input Shaft
F- Quill Style Motor Flange
RF – Coupling Style Motor Flange
QC – *Quick Connect* Motor Flange (close coupled)

7 – 700 Series

Center Distance (inches)
10 – 1.00
13 – 1.33
15 – 1.54
18 – 1.75
21 – 2.06
24 – 2.38
26 – 2.62
30 – 3.00
32 – 3.25
38 – 3.75
52 – 5.13
60 – 6.00

Base/Mounting Attachment*
Blank–No Base
A – Horizontal base – Top Mount
B – Horizontal base – Bottom Mount
BRB – Riser Block – Top Mount
C – Vertical High base – Right Mount
D – Vertical Low base – Right Mount
E – Vertical High base – Left Mount
F – Vertical Low base – Left Mount
R – *BostMount* Bracket – Right Mount
L – *BostMount* Bracket – Left Mount
M – Conveyor Flange Adptr – Right Mount
N – Conveyor Flange Adptr – Left Mount
V – Hollow Output Flange – Right Mount
W – Hollow Output Flange – Left Mount
X – Vertical Base – Rear Mount
Y – Vertical Base – Front Mount

*Projection of Base/Flange/Bracket assumes one is always looking into the input shaft in the #1 mounting position

Exact Gear Ratio
Ratio to 1

5	25
7	30
7.5	40
10	50
12	60
15	80
20	100

Or Consult Factory for Availability

Lubrication
Blank–No lubrication
K – Klubersynth UH1 6-460
S – Mobil SHC 634
X – Mobil 600W

Endcap or Fan (732-760 only)
E – Endcap (standard)
F – Fan

Vent
Blank–Standard Vent
P – Pressure Vent (5 psi)
Z – Posivent (sealed)

Oil Seal
Blank– Standard Seal
T– Two Standard Input Seals
C– High pressure washdown output seals and double input seals (stainless products only) IP69K

NEMA Motor Mounting

BORE CODE	NEMA MOUNTING	INPUT BORE	KEYWAY
B4	42CZ	.500"	1/8 x 1/16
B5	56C	.625	3/16 x 3/32
B7	140TC/180C	.875	3/16 x 3/32
B9	180TC/210C	1.125	1/4 x 1/8
B11	210TC/250UC	1.375	5/16 x 5/32
B13	250TC	1.625	3/8 x 3/16

Blank Solid Input Shaft (No Flange)

A

HS 1 – P24 –

***BostMount* Output Bore Code**

For H Series Only Specified in 1/16" increments.

Example: 1 1/4" = P20

5/8 – **P10**	1-1/2 – **P24**
3/4 – **P12**	1-5/8 – **P26**
7/8 – **P14**	1-11/16 – **P27**
15/16 – **P15**	1-3/4 – **P28**
1 – **P16**	1-7/8 – **P30**
1-1/16 – **P17**	1-15/16 – **P31**
1-1/8 – **P18**	2 – **P32**
1-3/16 – **P19**	2-1/8 – **P34**
1-1/4 – **P20**	2-3/16 – **P35**
1-5/16 – **P21**	2-1/4 – **P36**
1-3/8 – **P22**	2-7/16 – **P39**
1-7/16 – **P23**	3-7/16 – **P55**

See catalog page 128 for availability by center distance.
Consult Factory for Metric Bores

Mounting Positions

Blank -No Lubrication Supplied

For Factory Prelubrication Indicate Mounting Position

1 – Standard Mounting (Worm over)
2-6 – Refer to Mounting Positions in Catalog pages 18-19

Output Shaft

(When facing Input and worm on top)

G - Carbon Steel Output Projection – Left
H - Carbon Steel Double Output Projection
J - Carbon Steel Output Projection – Right
GS - Stainless Output Projection – Left
HS - Stainless Double Output Projection
JS - Stainless Output Projection – Right

Clutch/Brake

CMBA140TR-6 –

Common C-Face Brakes Installed

115/230 VAC 60hz	Ft-Lb	Bore Code
CMBA56R-3	3	B5
CMBA56R-6	6	B5
CMBA140TR-6	6	B7

208-230/460 VAC 60hz	Ft-Lb	Bore Code
CMBA56U-3	3	B5
CMBA56U-6	6	B5
CMBA140TU-6	6	B7

Other sizes available. See catalog page 343.

Motor

HUTF-IDB – 3

Motor Conduit box Orientation

(When looking at fan end of motor and gearbox is in mounting position #1)

0 – 12 O'clock
3 – 3 O'clock(standard for G & H shaft assemblies)
6 – 6 O'clock
9 – 9 O'clock (standard for J shaft assemblies)

Common C-Face Motors Installed

HP Rating	Bore Code	AC Voltage	
		115/208-230-1-60	208-230/460-3-60
1/4 HP	B5	**DRTFB**	**DUTFB**
1/3 HP	B5	**ERTFB**	**EUTFB**
1/2 HP	B5	**FRTFB**	**FUTFB**
	B5		**FUT-SS**
	B5		**FUTF-IDB**
3/4 HP	B5	**GRTFB**	**GUTFB**
	B5		**GUT-SS**
	B5		**GUTF-IDB**
1 HP	B5	**HRTF-5/8B**	**HUTF5/8B**
	B5		**HUT5/8-SS**
	B5		**HUTF5/8-IDB**
	B7		**HUTFB**
	B7		**HUT-SS**
	B7		**HUTF-IDB**
1.5 HP	B7		**JUTFB**
	B7		**JUTF-SS**
	B7		**JUTF-IDB**
2 HP	B5		**KUTF5/8B**
	B7		**KUTFB**
	B7		**KUTF-SS**
	B7		**KUTF-IDB**
3 HP	B9		**LUTFB**
	B9		**LUTF-SS**
	B9		**LUTF-IDB**
5 HP	B9		**MUTFB**

Other motors available, please see catalog pages 333 to 342.

T – Totally enclosed non-ventilated
TF – Totally enclosed fan cooled
SS – Stainless
IDB – Inverter Duty (10:1 turn down constant torque)
B5 – 56C
B7 – 140TC
B9 – 180TC

Single Reduction Numbering System / How to Order

Style	Size	Base	Ratio	Lubrication	Fan	Vent	Oil Seals	NEMA Mounting	Shaft Assembly	Mounting Position	Output Bore Code

A

Style **Designates reducer or flanged reducer, projecting or hollow output shaft.**

- **C** – Designates cast iron flange and base. (Standard on motor flanges 3 HP (180TC) and up and all bases except horizontal (710-726).
- **Blank** – Single reduction reducer with projecting input and output shafts. (No code letter required).
- **H** – Single reduction reducer with projecting input and *BostMount* hollow output shaft. (No flange) (713-738)
- **S** – Single reduction reducer with hollow output shaft. (Sizes 718, 721, 726 and 732).
- **F** – Single reduction flanged reducer (Quill types) with projecting output shaft.
- **HF**– Single reduction flanged reducer (Quill types) with *BostMount* hollow output shaft. (Sizes 713-738)
- **SF**– Single reduction flanged reducer (Quill types) with hollow output shaft. (Sizes 718, 721, 726 and 732)
- **QC** – Single reduction flanged reducer (Coupling types) with projecting output shaft.
- **HQC**– Single reduction flanged reducer (Coupling types) with *BostMount* hollow output shaft. (Sizes 713-738)
- **RF**– Single reduction flanged reducer (Coupling types) with Projecting output shaft. 752 - 760 Size Only
- **BK**– Designates Cast Iron, White *BostKleen* paint
- **SBK**– Designates Cast Iron, Stainless *BostKleen* paint
- **SSF**– Stainless Steel Single reduction flanged reducer (Quill types) with projecting output shaft.
- **SSHF**– Stainless steel single reduction flanged reducer with *BostMount* hollow output shaft.

Size **Center distance, rounded off.**

710 - 1.00	**721** - 2.06	**732** - 3.25
713 - 1.33	**724** - 2.38	**738** - 3,75
715 - 1.54	**726** - 2.62	**752** - 5.16
718 - 1.75	**730** - 3.00	**760** - 6.00

Base **Base positions relative to output shaft. Shipped separately as Base Kits. See Page 129.**

- **Blank**– No base kit supplied
- **A,B** – Horizontal bases
- **C,D,E & F** -Vertical Bases*
- **R/L** – BostMount Output Bracket
- **X** – Input Vertical Up
- **Y** – Input Vertical Down
- **BRB** – Horizontal base with riser block
- **V,W** – Flanged bases, available on "S" hollow shaft models only. Factory assembled.
- **M/N** – Flanged bases, available on "CFA" hollow shaft models only.

*For E, F vertical base arrangements, see Pages 18, 19.

Ratio **See Selection Tables for available ratios**

Lubrication **Optional Prelubrication.***

- **Blank** - No Lubrication supplied.
- **K** – Klubersynth UH1 6-460
- **S** – Mobil SHC634 Synthetic Lubricant
- **X** – Mobil 600W

*When specifying optional prelubrication, include mounting position after shaft assembly.

Fan **Optional fan available on sizes 732-760 single reduction only.** Shipped separately as Fan Kit. See Page 130.

Blank - No Fan Kit. **E** - End Cap (standard) **F** - Fan Kit

Vent **Pressure Relief.**

- **Blank** – Standard Vent
- **P** – 5 PSI Vent
- **Z** – PosiVent® Pressure Compensationg Bladder

Oil Seals

- **Blank** – Standard Seal
- **T** – Double Input Seals. Recommended for mounting positions 2, 3, 4, 6
- **C** - High pressure/wash down configuration for stainless gearboxes. Contains double input seals and axial face seals on the output.

NEMA Mounting Designates flange size and input bore diameter. Flanged reducers only. Leave blank for projecting input reducers.

Bore Code	NEMA Mounting	Input Bore	Keyway
B4	42CZ	.500"	1/8 x 1/16
B5	56C	.625	3/16 x 3/32
B7	140TC/180C	.875	3/16 x 3/32
B9	180TC/210C	1.125	1/4 x 1/8
B11	210TC/250UC	1.375	5/16 x 5/32
B13	250TC	1.625	3/8 x 3/16

See page 98 for Mounting Dimensions.

Shaft Assembly Assembly shaft arrangements. See assemblies, pages 18 and 19.

- **G** – Standard assembly (left)
- **H** – Double output shaft projection
- **J** – Opposite to standard (right)
- **GS** – Stainless standard assembly (left)
- **HS** – Stainless double output shaft projection
- **JS** – Stainless opposite to standard (right)

Mounting Position Designates the position of oil and vent plugs with respect to mounting.

- **Blank**– For units not supplied prelubricated.
- **1-6** – See pages 18 and 19.

Output Bore Code Specified in 1/16" increments. See page 128 for complete offering. Example 1 1/4" = P20 For H Series only.

How to Order

When ordering reducers please include code letters for Style, Size, Base (if required), Ratio, Fan (if required), Lubrication (if required), NEMA Mounting (if flanged reducer), Shaft Assembly and Motor (if required).

EXAMPLE: Required size, 721 Quill types flanged reducer, 30:1 ratio, 5/8" input bore, standard assembly, with horizontal base, no lubrication. Motor to be 3/4 HP, 1750 RPM, 230/460 Volt, 3 Phase, 60 cycle, open dripproof.

F	721	B	–	30	–	B5	–	G	–	GUB3

1. Reducer, Base and Motor Shipped separately:
   ORDER: Reducer - **F721-30-B5-G**
   Base Kit - **56587**
   Motor - **GUB3**
2. Reducer, Base and Motor assembled:
   ORDER: **F721B-30-B5-G-GUB3**

To properly select a speed reducer, the following application information must be known:

Input RPM (Ratio)
Output Torque
Input Horsepower
Service Factor

Non-Motorized Speed Reducer

1. Determine service factor from table below.
2. Determine design horsepower.
   Design Horsepower =
   Application Load x Service Factor
3. Select a speed reducer size that satisfies output RPM, service class and/or output torque requirements.
4. Check overhung load capacity.

Motorized Speed Reducer

1. Determine service class from table below.
2. Select a reducer size that satisfies output RPM, service class and/or output torque requirements.
3. Check overhung load capacity.

Service Factor Table

AGMA Class of Service	Service Factor	Operating Conditions
I	1.00	Moderate Shock-not more than 15 minutes in 2 hours.
		Uniform Load-not more than 10 hours per day.
II	1.25	Moderate Shock-not more than 10 hours per day.
		Uniform Load-more than 10 hours per day.
	1.50	Heavy Shock-not more than 15 minutes in 2 hours.
		Moderate Shock-more than 10 hours per day.
III	1.75	Heavy Shock-not more than 10 hours per day.
	2.00	Heavy Shock-more than 10 hours per day.

For complete AGMA Service Factors and Load Classifications, see Engineering Section, Pages 348 and 349.

Single Reduction Selection Tables

Capacity Selection Tables on pages 22-29 list catalog numbers and ratios of both reducers and gearmotors. Output RPM, output torque and horsepower are all based on 1750 RPM input. Output torque and horsepower capacities at other input RPM's are listed on pages 30-33. For motorized reducer selection, select the desired output RPM and refer to the gearmotor ratings column. For non-motorized reducers, refer to the reducer gear capacity columns. For the desired HP, torque and service factor that satisfies your requirements, a 700 Series basic reducer number will be indicated. For complete catalog numbering system, descriptions and options, refer to Pages 14-15.

Overhung Load

If the output shaft of a speed reducer is connected to the driven machine by other than a flexible coupling, an overhung load is imposed on the shaft. This load may be calculated as follows:

$$OHL = \frac{2TK}{D}$$

OHL = Overhung Load (LB.)
T = Shaft Torque (LB.IN.)
D = PD of Sprocket, Pinion or Pulley (IN.)
K = Load Connection Factor

Load Connection Factor

Sprocket or Timing Belt 1.00
Pinion and Gear Drive 1.25
Pulley and V-Belt Drive. 1.50
Pulley and Flat Belt Drive 2.50

An overhung load greater than permissible load value may be reduced to an acceptable value by the use of a sprocket, pinion or pulley of a larger PD. Relocation of the load closer to the center of reducer will also increase OHL capacity.

Permissible Overhung Loads and Output Shaft Thrust Loads are listed for each reducer in the Tables on pages 30-33.

Maximum Input Speeds

710, 713	4500 RPM
715 through 732	3600 RPM
738, 752	2500 RPM
760	1750 RPM

NOTE: Horsepower ratings for 1750 RPM should not be exceeded when operating at higher input speeds.

Ratings shown reflect maximum gear capacity with Klubersynth UH1 6-460 lubricant. The use of other lubricants may reduce ratings by up to 15%.

Ratings are mechanical not thermal.

Flanged Reducer Assemblies and Mounting Positions

A

Assemblies - F/QC/RF 700 Series

Standard assemblies define output shaft (slow speed) projection with respect to input shaft (high speed) and mounting surface.

Types “A” and “B” are horizontal bases.

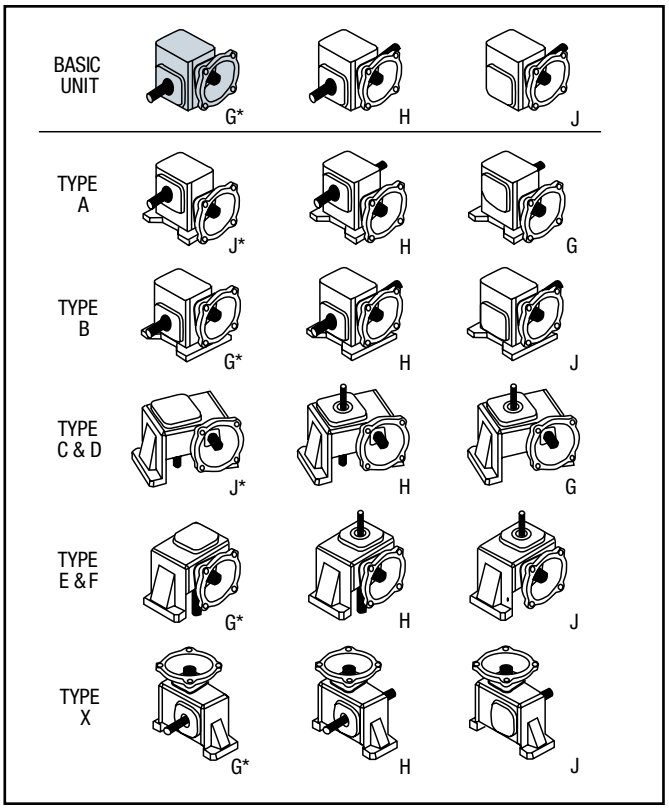
Types “C” and “E” are vertical high bases and Types “D” and “F” are vertical low bases. Types “X” is input vertical up.

Basic models and separate base kits are supplied unless otherwise specified. Assembly “H” is available at a slight additional charge.

See Pages 14-15 for complete ordering instructions.

Input may rotate clockwise or counter clockwise.

FOR OTHER CONFIGURATIONS NOT SHOWN, CONTACT FACTORY.



* Standard assemblies

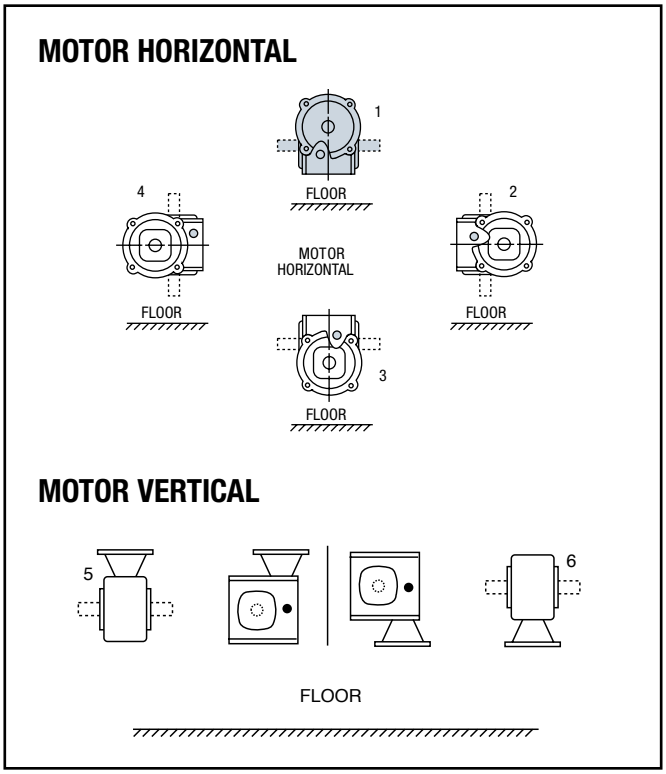
Mounting Positions - F/QC/RF - SF - HF/HQC 700 Series

Standard assemblies are for Position 1. The design permits any types of assembly to be mounted in any position shown by the proper location of the vented oil filler, level and drain plugs, at the time of installation.

For other than Position 1, order standard and relocate vented oil filler, level and drain plugs.

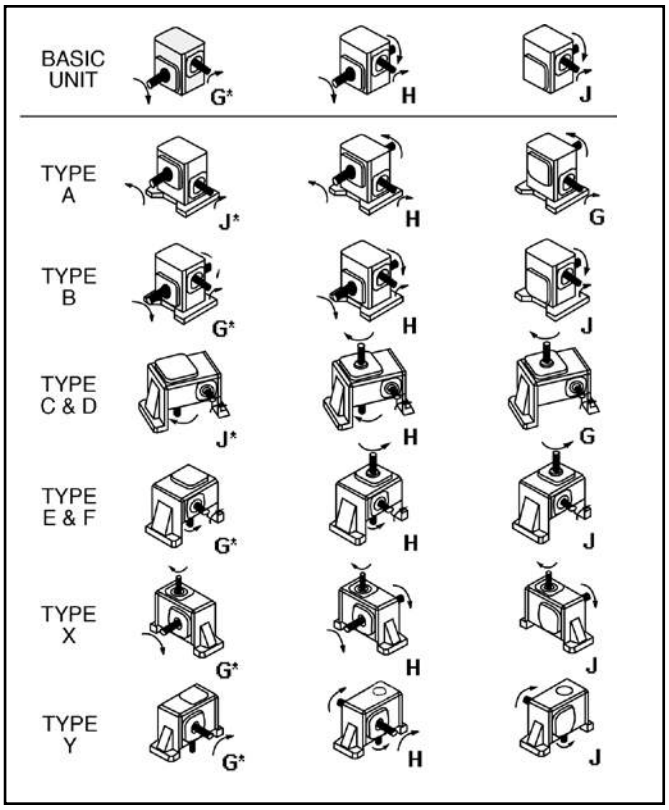
For production orders Boston Gear will assemble units for the specified mounting position desired at no additional charge.

CAUTION
When ordering speed reducers pre-lubricated, the Mounting Position must be indicated to ensure proper oil level and seal configuration.



- Indicates proper oil level.
- When mounting gearboxes in positions 2, 3, 4, 6 Double Input Seals are required.

Non-Flanged Reducer Assemblies and Mounting Positions



* Standard assemblies

Assemblies - 700 Series

Standard assemblies define output shaft (slow speed) projection with respect to input shaft (high speed) projection and mounting surface.

Types “A” and “B” are horizontal bases.

Types “C” and “E” are vertical high bases and Types “D” and “F” are vertical low bases. Type “X” is input vertical up. Type “Y” is input vertical down.

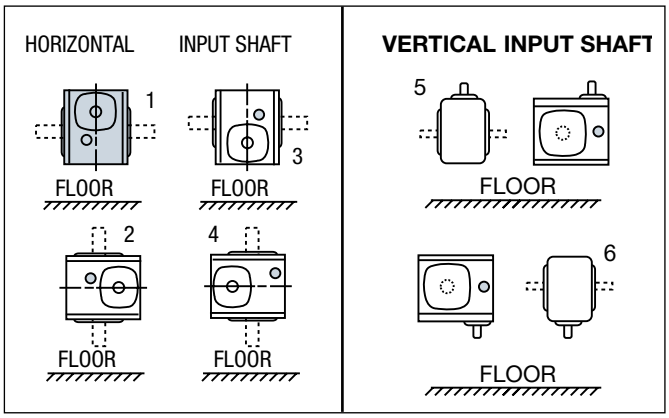
Basic models and separate base kits are supplied unless otherwise specified. Assembly “H” is available at a slight additional charge.

See Pages 14-15 for complete ordering instructions.

Input may rotate clockwise or counter clockwise. Arrows indicate relative rotation.

FOR OTHER CONFIGURATIONS NOT SHOWN, CONTACT FACTORY.

TYPICAL MOUNTING POSITIONS
(Examples shown for single-reduction models only)



- Indicates proper oil level.
- When mounting gearboxes in positions 2, 3, 4, 6 Double Input Seals are required.

Example: F715-15**T**-B5-G6

Mounting Positions - 700 - S700 - H700 Series

Standard assemblies are for Position 1. The design permits any types of assembly to be mounted in any position shown by the proper location of the vented oil filler, level and drain plugs, at the time of installation.

For other than Position 1, order standard and relocate vented oil filler, level and drain plugs.

For production orders Boston Gear will assemble units for the specified mounting position desired at no additional charge.

CAUTION
When ordering speed reducers pre-lubricated, the Mounting Position must be indicated to ensure proper oil level and seal configuration.

Recommended Lubricants & Capacities

A

The following table indicates the types and viscosity of lubricants suitable for reducers operating at various temperatures.

Lubrication and maintenance instructions are provided with each speed reducer. These instructions should be followed for best results. It is important that the correct types of oil be used since many oils are not suitable for the lubrication of gears. Various types of gearing require different types of lubricants.

The lubricant must remain free from oxidation and contamination by water or debris, since only a very thin film of oil stands between efficient operation and failure. To assure long service life, the reducer should be periodically drained (preferably while warm) and refilled to the proper level with a recommended gear oil.

Under normal environmental conditions oil changes are suggested after the initial 250 hours of operation and thereafter at regular intervals of 2500 hours or every 6 months.

Synthetic lubricants will allow extended lubrication intervals due to its increased resistance to thermal and oxidation degradation. It is suggested that the initial oil change be made at 1500 hours and, thereafter, at 5000 hour intervals.

During the initial period of operation, higher than normal operating temperatures may be seen. This is due to the initial break-in of the gear set. The temperature of Single Reduction Worm Gear Reducers may reach approximately 225°F.

Enclosed Worm Gear Reducers

Ambient (Room) Temperature	Recommended Oil (or equivalent)	Viscosity Range SUS @ 100°F	Oil Type	ISO Viscosity Grade No.+
–20° to 225°F** (–29° to 107°C)	Klubersynth* UH1 6-460 Synthetic	1950/2500	PAG	460
–30° to 225°F (–34° to 107°C)	Mobil SHC634 Synthetic	1950/2500	PAO	320/460

Worm Gear Lubricant Available From Boston Gear

Type	Klubersynth UH1 6-460	Mobil SHC634
Size	Qt.	Qt.
Item Code	65159	51493

Available in quarts only

CAUTION: Relubricate more frequently if drive is operated in high ambient temperatures or unusually contaminated atmosphere. High loads and operating temperatures will also require the use of frequent lubrication.

* Synthetic recommendation is Klubersynth UH1 6-460, other lubrications may reduce efficiency and torque capacity.

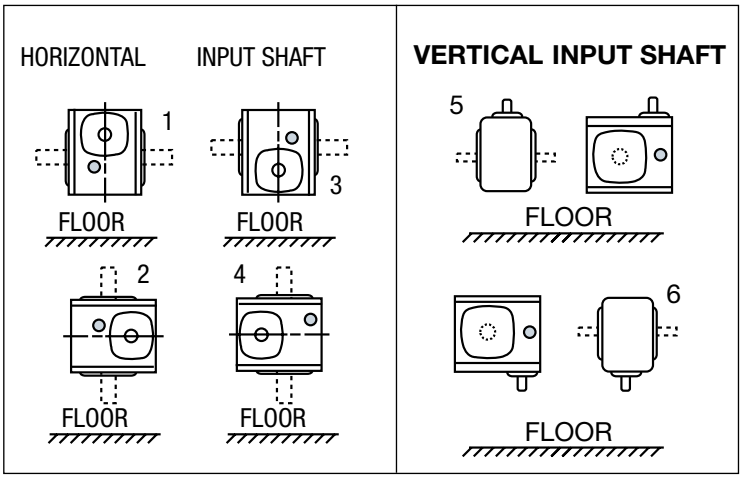
\+ Other lubricants corresponding to AGMA/ISO numbers are available from all major oil companies. See Page 134 for lubricant interchange.

** The Klubersynth UH1 6-460 lubricant will perform at temperatures considerably higher than 225°F. However, the factory should always be consulted prior to operating at higher temperatures, as damage may occur to oil seals and other components.

WARNING: Different oil types should not be mixed. For example Klubersynth UH1 6-460 is not compatible with Mobil SHC634.

FOR SINGLE REDUCTION ONLY: REFER TO LUBRICATION AND INSTALLATION INSTRUCTIONS.

Oil Levels for Typical Mounting Positions (Examples shown for single-reduction models only)



- Indicates proper oil level.
- When mounting gearboxes in positions 2, 3, 4, 6 Double Input Seals are required.

Oil capacity in fluid ounces for cast iron units*

Unit Size	Positions				
	1	2	3	4	5 & 6
710	2.2	3.3	3.3	3.3	3.3
713	5.5	7.0	7.0	7.0	7.0
715	10.0	15.0	15.0	13.5	13.5
718	12.0	16.0	18.5	16.0	16.0
721	15.0	20.5	20.5	19.0	19.0
724	18.0	24.5	28.5	24.5	24.5
726	28.0	36.0	43.0	36.0	36.0
730	43.0	60.0	66.0	58.0	58.0
732	58.0	84.0	90.0	80.0	80.0
738	85.0	120.0	130.0	120.0	107.0
752	204.0	240.0	245.0	240.0	215.0
760	330.0	400.0	415.0	400.0	370.0

*See page 56 for stainless steel units.

Quick Reference Model Selection Chart

Class I Service

Single Reduction (1.0 Service Factor)

Reducer Ratio	Output RPM	Input Horsepower @ 1750 rpm													
		1/6	1/4	1/3	1/2	3/4	1	1-1/2	2	3	5	7-1/2	10	15	20
5	350	710	710	710	710	713	715	715	718	724	726	—	—	—	—
10	175	710	710	710	713	713	715	718	721	724	730	738	738F	752	752F
15	117	710	710	710	713	715	718	721	724	726	732F	738F	752	752F	760F
20	88	710	710	713	713	715	718	724	726	730	738	752	752	760F	—
25	70	713	713	713	715	718	721	724	726	732	—	—	—	—	—
30	58	710	713	713	715	721	721	726	730	732F	752	752F	760F	—	—
40	44	710	713	715	718	721	724	730	732	738F	752	760	—	—	—
50	35	710	713	713	721	724	726	730	732F	752	752F	760F	—	—	—
60	29	710	715	718	721	724	730	732	738F	752	752F	—	—	—	—

NOTE: This chart is meant only as a guide. For actual ratings, see Pages 20-33.

Class II Service

Single Reduction (1.25 Service Factor)

Reducer Ratio	Output RPM	Input Horsepower @ 1750 rpm													
		1/6	1/4	1/3	1/2	3/4	1	1-1/2	2	3	5	7-1/2	10	15	20
5	350	710	710	710	710	713	715	718	718	724	730	—	—	—	—
10	175	710	710	710	713	715	718	721	724	726	732	738F	752	752F	760F
15	117	710	710	713	713	718	721	724	726	730	738	752	752	760	—
20	88	710	713	713	715	718	721	726	730	732	752	752F	760	—	—
25	70	713	713	713	718	721	724	726	730	732F	—	—	—	—	—
30	58	713	713	715	718	721	724	730	732	738F	752	760	—	—	—
40	44	713	713	715	721	724	726	732	732F	752	752F	760F	—	—	—
50	35	713	715	718	721	726	730	732F	738F	752	760F	—	—	—	—
60	29	713	718	721	724	730	732	738	752	752F	—	—	—	—	—

NOTE: This chart is meant only as a guide. For actual ratings, see Pages 20-33.

Class III Service

Single Reduction (1.75 Service Factor)

Reducer Ratio	Output RPM	Input Horsepower @ 1750 rpm													
		1/6	1/4	1/3	1/2	3/4	1	1-1/2	2	3	5	7-1/2	10	15	20
5	350	710	710	710	713	715	718	721	721	726	—	—	—	—	—
10	175	710	710	713	715	718	721	724	726	730	738F	752	752F	—	—
15	117	710	713	713	718	721	724	726	730	732F	752	752F	760	—	—
20	88	713	713	715	718	721	724	730	732	738F	752	760	760F	—	—
25	70	713	715	718	721	724	726	730	732F	—	—	—	—	—	—
30	58	713	715	718	721	724	730	732	738	752	752F	—	—	—	—
40	44	713	718	721	724	726	732	732F	752	752F	760F	—	—	—	—
50	35	715	718	721	726	730	732F	738F	752	760	—	—	—	—	—
60	29	718	721	724	726	732	732F	752	752	—	—	—	—	—	—

NOTE: This chart is meant only as a guide. For actual ratings, see Pages 20-33.

700 Series Single Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

For Ratings at Other Speeds, See Tables on Pages 30-33

A

Output RPM	Ratio	Non-Flanged Reducers					Flanged Reducers (Gearmotor)										Bore Code	Motors* 230/460 VAC 3 Phase 60 Hz
		Gear Capacity			Efficiency	Size	Ratings			Available Styles†								
		Output Torque (lb.in.)	HP				Motor HP	Output Torque (lb.in.)	Service Class	F	QC	FAN	HF	SF	HQC	RF	SS	
			Input	Output														
350	5	113	0.69	0.63	0.91	**710-5**	**0.50** **0.33** **0.33** **0.25** **0.25** **0.17** **0.17**	82 55 55 41 41 27 27	II III III III III III III									B5 B4 B5 B4 B5 B4 B5	FUTF AEUTF EUTF ADUTF DUTF ACUT CUTF
		235	1.39	1.31	0.94	**713-5**	**1** **0.75** **0.50**	169 127 85	II III III									B5 B5 B5	HUTF-5/8 GUTF FUTF
		291	1.72	1.62	0.94	**715-5**	**1.5** **1** **0.75**	254 169 127	I II III									B7 B5 B5	JUTF HUTF-5/8 GUTF
		432	2.55	2.40	0.94	**718-5**	**2** **1.5** **1**	338 254 169	II II III									B7 B7 B5	KUTF JUTF HUTF-5/8
		620	3.66	3.44	0.94	**721-5**	**2** **1.5**	338 254	II III									B7 B7	KUTF JUTF
		838	4.95	4.65	0.94	**724-5**	**5** **3**	838 508	I II									B9 B9	MUTF LUTF
		1034	6.11	5.74	0.94	**726-5**	**5** **3**	846 508	I III									B9 B9	MUTF LUTF
		1408	8.32	7.82	0.94	**730-5**	**5** **3**	846 508	II III									B9 B9	MUTF LUTF
250	7	644	2.80	2.56	0.91	**721-7**	**2** **1.5**	460 345	II III									B7 B7	KUTF JUTF
175	10	138	0.44	0.38	0.87	**710-10**	**0.33** **0.33** **0.25** **0.25**	104 104 78 78	II II III III									B4 B5 B4 B5	AEUTF EUTF ADUTF DUTF
		281	0.86	0.78	0.91	**713-10**	**0.75** **0.50** **0.33**	245 163 109	I II III									B5 B5 B5	GUTF FUTF EUTF
		397	1.20	1.10	0.92	**715-10**	**1** **0.75** **0.50**	330 248 165	I II III									B5 B5 B5	HUTF-5/8 GUTF FUTF
		536	1.61	1.49	0.92	**718-10**	**1.5** **1** **0.75**	499 333 249	I II III									B7 B5 B5	JUTF HUTF-5/8 GUTF
		789	2.34	2.19	0.94	**721-10**	**2** **1.5** **1**	674 505 337	I II III									B7 B7 B5	KUTF JUTF HUTF-5/8
		1069	3.18	2.97	0.93	**724-10**	**3** **2** **1.5**	1008 672 504	I II III									B9 B7 B7	LUT KUTF JUTF
		1345	3.94	3.74	0.95	**726-10**	**3** **2** **1.5**	1024 683 512	II III III									B9 B7 B7	LUTF KUTF JUTF

* Totally Enclosed, Fan Cooled. For complete motor Catalog Numbers and additional motors, see Pages 337 and 342.
† Shaded areas denote which styles are available for a given center distance and ratio. See Pages 14-15 for style descriptions.
752 & 760 SIZES AVAILABLE ONLY IN RF-FLANGED COUPLING TYPES.
RATINGS SHOWN REFLECT THE USE OF KLUBERSYNTH UH1 6-460.

700 Series Single Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

For Ratings at Other Speeds, See Tables on Pages 30-33

Output RPM	Ratio	Non-Flanged Reducers					Flanged Reducers (Gearmotor)											Bore Code	Motors* 230/460 VAC 3 Phase 60 Hz
		Gear Capacity			Efficiency	Size	Ratings			Available Styles†									
		Output Torque (lb.in.)	HP				Motor HP	Output Torque (lb.in.)	Service Class	F	QC	FAN	HF	SF	HQC	RF	SS		
			Input	Output															
175	10	1787	5.28	4.96	0.94	**730-10**	**5** **3** **2**	1692 1015 677	I III III									B9 B9 B7	MUTF LUTF KUTF
		2106	6.22	5.85	0.94	**732-10**	**5** **3**	1692 1015	II III									B9 B9	MUTF LUTF
		2532	7.75	7.03	0.91	**732-10F**	**5** **3**	1633 980	II III									B9 B9	MUTF LUTF
		2834	8.37	7.87	0.94	**738-10**	**7.5** **5** **3**	2538 1692 1015	I II III									B11 B9 B9	NUTF MUTF LUTF
		3221	9.96	8.94	0.90	**738-10F**	**10** **7.5** **5**	3221 2425 1616	I II III									B11 B11 B9	PUTF NUTF LUTF
		5860	17.31	16.27	0.94	**752-10**	**15** **10** **7.5**	5076 3384 2538	I II III									B13 B11 B11	RUTF PUTF SUTF
		7182	21.63	19.94	0.92	**752-10F**	**20** **15** **10**	6640 4979 3319	I II III									B13 B13 B11	SUTF RUTF PUTF
		8067	23.83	22.4	0.94	**760-10**	**20** **15** **10**	6768 5076 3384	I II III									B13 B13 B11	SUTF RUTF PUTF
		8658	26.13	24.04	0.92	**760-10F**	**20** **15**	6624 4968	II III									B13 B13	SUTF RUTF
145.8	12	693	1.76	1.60	0.91	**721-12**	**1.5** **1**	590 394	I III									B7 B7	JUTF HUTF
		984	2.50	2.28	0.91	**724-12**	**2** **1.5** **1**	787 590 394	II II III									B7 B7 B5	KUTF JUTF HUTF-5/8
116.7	15	146	0.33	0.27	0.82	**710-15**	**0.33** **0.33** **0.25** **0.25** **0.17** **0.17**	146 146 111 111 74 74	I I II II III III									B4 B5 B4 B5 B4 B5	AEUTF EUTF ADUTF DUTF ACUT CUTF
		305	0.66	0.56	0.86	**713-15**	**0.50** **0.33**	231 154	II III									B5 B5	FUTF EUTF
		429	0.91	0.79	0.87	**715-15**	**0.75** **0.50** **0.33**	353 235 157	I II III									B5 B5 B5	GUTF FUTF EUTF
		552	1.13	1.02	0.90	**718-15**	**1** **0.75** **0.50**	489 367 244	I II III									B5 B5 B5	HUTF-5/8 GUTF FUTF
		841	1.72	1.56	0.90	**721-15**	**1.5** **1** **0.75**	733 489 367	I II III									B7 B7 B5	JUTF HUTF GUTF

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752 & 760 SIZES AVAILABLE ONLY IN RF-FLANGED COUPLING TYPES.
RATINGS SHOWN REFLECT THE USE OF KLUBERSYNTH UH1 6-460.

700 Series Single Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

For Ratings at Other Speeds, See Tables on Pages 30-33

A

Output RPM	Ratio	Non-Flanged Reducers					Flanged Reducers (Gearmotor)										Bore Code	Motors* 230/460 VAC 3 Phase 60 Hz
		Gear Capacity			Efficiency	Size	Ratings			Available Styles†								
		Output Torque (lb.in.)	HP Input	HP Output			Motor HP	Output Torque (lb.in.)	Service Class	F	QC	FAN	HF	SF	HQC	RF	SS	
116.7	15	1159	2.34	2.15	0.92	**724-15**	**2** **1.5** **1**	990 743 495	I II III									B7 B7 B7	KUTF JUTF HUTF
		1466	2.95	2.71	0.92	**726-15**	**3** **2** **1.5**	1466 994 745	I II III									B9 B7 B7	LUTF KUTF JUTF
		1969	3.97	3.64	0.92	**730-15**	**3** **2**	1487 991	II III									B9 B7	LUTF KUTF
		2344	4.65	4.34	0.93	**732-15**	**3** **2**	1511 1008	II III									B9 B7	LUTF KUTF
		2782	5.80	5.15	0.89	**732-15F**	**5** **3**	2519 1511	I III									B9 B9	MUTF LUTF
		3155	6.28	5.84	0.93	**738-15**	**5** **3**	2511 1507	II III									B9 B9	MUTF LUTF
		3543	7.47	6.56	0.88	**738-15F**	**7.5** **5** **3**	3556 2371 1422	I II III									B11 B9 B9	NUTF MUTF LUTF
		6618	13.06	12.25	0.94	**752-15**	**10** **7.5** **5**	5065 3799 2533	II II III									B11 B11 B9	PUTF NUTF MUTF
		7829	16.32	14.49	0.89	**752-15F**	**15** **10** **7.5**	7193 4795 3596	I II III									B13 B11 B11	RUTF PUTF NUTF
		9055	17.87	16.76	0.94	**760-15**	**15** **10**	7598 5065	I III									B13 B11	RUTF PUTF
		10712	22.33	19.83	0.89	**760-15F**	**20** **15** **10**	9590 7193 4795	I II III									B13 B13 B11	SUTF RUTF PUTF
87.5	20	149	0.27	0.21	0.77	**710-20**	**0.25** **0.25** **0.17** **0.17**	138 138 92 92	I I II II									B4 B5 B4 B5	ADUTF DUTF ACUT CUTF
		308	0.52	0.43	0.82	**713-20**	**0.50** **0.33** **0.25**	296 197 148	I II III									B5 B5 B5	FUTF EUTF DUTF
		435	0.72	0.60	0.84	**715-20**	**0.75** **0.50** **0.33**	435 302 201	I II III									B5 B5 B5	GUTF FUTF EUTF
		590	0.97	0.82	0.84	**718-20**	**1** **0.75** **0.50**	590 456 304	I II III									B5 B5 B5	HUTF-5/8 GUTF FUTF
		892	1.40	1.24	0.88	**721-20**	**1** **0.75**	637 478	II III									B5 B5	HUTF-5/8 GUTF
		1233	1.95	1.71	0.88	**724-20**	**2** **1.5** **1**	1233 948 632	I II III									B7 B7 B5	KUTF JUTF HUTF-5/8

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752 & 760 SIZES AVAILABLE ONLY IN RF-FLANGED COUPLING TYPES.

RATINGS SHOWN REFLECT THE USE OF KLUBERSYNTH UH1 6-460.

700 Series Single Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

For Ratings at Other Speeds, See Tables on Pages 30-33

Output RPM	Ratio	Non-Flanged Reducers					Flanged Reducers (Gearmotor)										Bore Code	Motors* 230/460 VAC 3 Phase 60 Hz
		Gear Capacity			Efficiency	Size	Ratings			Available Styles†								
		Output Torque (lb.in.)	HP				Motor HP	Output Torque (lb.in.)	Service Class	F	QC	FAN	HF	SF	HQC	RF	SS	
			Input	Output														
87.5	20	1483	2.34	2.06	0.88	**726-20**	**2** **1.5** **1**	1267 950 634	I II III									B7 B7 B5	KUTF JUTF HUTF-5/8
		2024	3.14	2.81	0.89	**730-20**	**3** **2** **1.5**	1933 1289 967	I II III									B9 B7 B7	LUTF KUTF JUTF
		2413	3.71	3.35	0.90	**732-20**	**3** **2**	1950 1300	II III									B9 B7	LUTF KUTF
		2858	4.63	3.97	0.86	**732-20F**	**3** **2**	1851 1234	II III									B9 B7	LUTF KUTF
		3285	5.00	4.56	0.91	**738-20**	**5** **3** **2**	3283 1970 1313	I II III									B9 B9 B7	MUTF LUTF KUTF
		3707	5.95	5.15	0.86	**738-20F**	**5** **3**	3114 1868	I III									B9 B9	MUTF LUTF
		6833	10.19	9.49	0.93	**752-20**	**10** **7.5** **5**	6703 5027 3352	I II III									B11 B11 B9	PUTF NUTF MUTF
		8075	12.74	11.21	0.88	**752-20F**	**10** **7.5** **5**	6336 4752 3168	II II III									B11 B11 B9	PUTF NUTF MUTF
		9412	14.02	13.07	0.93	**760-20**	**10** **7.5**	6710 5033	II III									B11 B11	PUTF NUTF
		11080	17.52	15.38	0.88	**760-20F**	**15** **10**	9482 6322	I III									B13 B11	RUTF PUTF
70	25	307	0.43	0.34	0.79	**713-25**	**0.33** **0.25** **0.17**	238 178 119	II II III									B5 B5 B5	EUTF DUTF CUTF
		437	0.60	0.49	0.81	**715-25**	**0.50** **0.33** **0.25**	364 243 182	I II III									B5 B5 B5	FUTF EUTF DUTF
		574	0.76	0.64	0.84	**718-25**	**0.75** **0.50** **0.33**	566 378 252	I II III									B5 B5 B5	GUTF FUTF EUTF
		875	1.16	0.97	0.84	**721-25**	**1** **0.75** **0.50**	754 566 377	I II III									B5 B5 B5	HUTF-5/8 GUTF FUTF
		1199	1.55	1.33	0.86	**724-25**	**1.5** **1** **0.75**	1160 773 580	I II III									B7 B5 B5	JUTF HUTF-5/8 GUTF
		1514	1.94	1.68	0.87	**726-25**	**2** **1.5** **1**	1514 1170 780	I II III									B7 B7 B7	KUTF JUTF HUTF-5/8
		2051	2.61	2.28	0.87	**730-25**	**2** **1.5**	1571 1179	II III									B7 B7	KUTF JUTF

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700 Series Single Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

For Ratings at Other Speeds, See Tables on Pages 30-33

A

Output RPM	Ratio	Non-Flanged Reducers					Flanged Reducers (Gearmotor)										Bore Code	Motors* 230/460 VAC 3 Phase 60 Hz
		Gear Capacity			Efficiency	Size	Ratings			Available Styles†								
		Output Torque (lb.in.)	HP Input	HP Output			Motor HP	Output Torque (lb.in.)	Service Class	F	QC	FAN	HF	SF	HQC	RF	SS	
70	25	2443	3.08	2.71	0.88	**732-25**	**3** **2** **1.5**	2379 1586 1189	I II III									B9 B7 B7	LUTF KUTF JUTF
		2891	3.85	3.21	0.84	**732-25F**	**3** **2**	2252 1501	II III									B9 B7	LUTF KUTF
58.3	30	150	0.20	0.14	0.69	**710-30**	**0.17** **0.17**	125 125	I I									B4 B5	ACUT CUTF
		311	0.39	0.29	0.74	**713-30**	**0.33** **0.25** **0.17**	265 199 133	I II III									B5 B5 B5	EUTF DUTF CUTF
		445	0.54	0.41	0.76	**715-30**	**0.50** **0.33** **0.25**	411 274 206	I II III									B5 B5 B5	FUTF EUTF DUTF
		573	0.65	0.53	0.82	**718-30**	**0.50** **0.33** **0.25**	441 294 220	II III III									B5 B5 B5	FUTF EUTF DUTF
		871	0.99	0.81	0.81	**721-30**	**1** **0.75** **0.50**	871 659 440	I II III									B5 B5 B5	HUTF-5/8 GUTF FUTF
		1200	1.33	1.11	0.83	**724-30**	**1** **0.75**	902 676	II III									B5 B5	HUTF-5/8 GUTF
		1521	1.68	1.41	0.84	**726-30**	**1.5** **1** **0.75**	1358 905 679	I II III									B7 B5 B5	JUTF HUTF-5/8 GUTF
		2045	2.27	1.89	0.83	**730-30**	**2** **1.5** **1**	1801 1351 901	I II III									B7 B7 B5	KUTF JUTF HUTF-5/8
		2456	2.64	2.27	0.86	**732-30**	**2** **1.5**	1860 1395	II III									B7 B7	KUTF JUTF
		2902	3.30	2.69	0.81	**732-30F**	**3** **2** **1.5**	2637 1758 1319	I II III									B9 B7 B7	LUTF KUTF JUTF
		3354	3.56	3.10	0.87	**738-30**	**3** **2**	2825 1884	I III									B9 B7	LUTF KUTF
		3757	4.23	3.48	0.82	**738-30F**	**3** **2**	2663 1776	II III									B9 B7	LUTF KUTF
		6964	7.30	6.45	0.88	**752-30**	**5** **3**	4768 2861	II III									B9 B9	PUTF NUTF
		8336	9.12	7.72	0.85	**752-30F**	**7.5** **5**	6853 4568	I III									B11 B9	NUTF MUTF
		9603	9.81	8.89	0.91	**760-30**	**7.5** **5**	7339 4892	II III									B11 B9	NUTF MUTF
		11219	12.26	10.38	0.85	**760-30F**	**10** **7.5** **5**	9148 6861 4574	I II III									B11 B11 B9	PUTF NUTF MUTF
43.8	40	151	0.17	0.10	0.62	**710-40**	**0.17** **0.17**	148 148	I I									B4 B5	ACUT CUTF

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700 Series Single Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

For Ratings at Other Speeds, See Tables on Pages 30-33

Output RPM	Ratio	Non-Flanged Reducers					Flanged Reducers (Gearmotor)										Bore Code	Motors* 230/460 VAC 3 Phase 60 Hz
		Gear Capacity			Efficiency	Size	Ratings			Available Styles†								
		Output Torque (lb.in.)	HP				Motor HP	Output Torque (lb.in.)	Service Class	F	QC	FAN	HF	SF	HQC	RF	SS	
			Input	Output														
43.8	40	307	0.31	0.21	0.69	**713-40**	**0.25** **0.17**	248 165	II III									B5 B5	DUTF CUTF
		442	0.43	0.31	0.71	**715-40**	**0.33** **0.25** **0.17**	342 257 171	II II III									B5 B5 B5	EUTF DUTF CUTF
		609	0.57	0.42	0.74	**718-40**	**0.50** **0.33** **0.25**	534 356 267	I II III									B5 B5 B5	FUTF EUTF DUTF
		876	0.81	0.61	0.75	**721-40**	**0.75** **0.50** **0.33**	811 541 360	I II III									B5 B5 B5	GUTF FUTF EUTF
		1206	1.08	0.84	0.77	**724-40**	**1** **0.75** **0.50**	1116 837 558	I II III									B5 B5 B5	HUTF-5/8 GUTF FUTF
		1512	1.33	1.05	0.79	**726-40**	**1** **0.75**	1136 852	II III									B5 B5	HUTF-5/8 GUTF
		2041	1.78	1.42	0.80	**730-40**	**1.5** **1** **0.75**	1719 1146 860	I II III									B7 B5 B5	JUTF HUTF-5/8 GUTF
		2444	2.10	1.70	0.81	**732-40**	**2** **1.5** **1**	2327 1745 1164	I II III									B7 B7 B5	KUTF JUTF HUTF-5/8
		2944	2.62	2.04	0.78	**732-40F**	**2** **1.5**	2246 1685	II III									B7 B7	KUTF JUTF
		3320	2.80	2.30	0.82	**738-40**	**2** **1.5**	2370 1778	II III									B7 B7	KUTF JUTF
		3747	3.33	2.60	0.78	**738-40F**	**3** **2**	3374 2249	I II									B9 B7	LUTF KUTF
		6889	5.60	4.78	0.85	**752-40**	**5** **3**	6149 3689	I III									B9 B9	MUTF LUTF
		8178	7.00	5.68	0.81	**752-40F**	**5** **3**	5839 3504	II III									B9 B9	MUTF LUTF
		9566	7.65	6.64	0.87	**760-40**	**7.5** **5**	9374 6250	I II									B11 B9	NUTF MUTF
		11197	9.56	7.77	0.81	**760-40F**	**7.5** **5**	8780 5854	II III									B11 B9	NUTF MUTF
35	50	153	0.15	0.09	0.57	**710-50**	**0.17** **0.17**	153 153	I I									B4 B5	ACUT CUTF
		297	0.25	0.17	0.66	**713-50**	**0.25** **0.17**	297 198	I II									B5 B5	DUTF CUTF
		429	0.35	0.24	0.68	**715-50**	**0.33** **0.25** **0.17**	409 306 204	I II III									B5 B5 B5	EUTF DUTF CUTF
		573	0.44	0.32	0.72	**718-50**	**0.33** **0.25**	434 325	II III									B5 B5	EUTF DUTF
		857	0.66	0.48	0.72	**721-50**	**0.50** **0.33**	649 433	II III									B5 B5	FUTF EUTF

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700 Series Single Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

For Ratings at Other Speeds, See Tables on Pages 30-33

A

Output RPM	Ratio	Non-Flanged Reducers					Flanged Reducers (Gearmotor)											Bore Code	Motors* 230/460 VAC 3 Phase 60 Hz
		Gear Capacity			Efficiency	Size	Ratings			Available Styles†									
		Output Torque (lb.in.)	HP				Motor HP	Output Torque (lb.in.)	Service Class	F	QC	FAN	HF	SF	HQC	RF	SS		
			Input	Output															
35	50	1177	0.87	0.65	0.75	**724-50**	**0.75** **0.50** **0.33**	1014 676 451	I II III									B5 B5 B5	GUTF FUTF EUTF
		1484	1.08	0.82	0.76	**726-50**	**1** **0.75** **0.50**	1373 1030 687	I II III									B5 B5 B5	HUTF-5/8 GUTF FUTF
		2016	1.45	1.12	0.77	**730-50**	**1.5** **1** **0.75**	2016 1390 1042	I II III									B7 B5 B5	JUTF HUTF-5/8 GUTF
		2403	1.70	1.33	0.78	**732-50**	**1.5** **1** **0.75**	2120 1413 1060	I II III									B7 B5 B5	JUTF HUTF-5/8 GUTF
		2791	2.12	1.55	0.73	**732-50F**	**2** **1.5** **1**	2632 1974 1316	I II III									B7 B7 B7	KUTF JUTF HUTF
		3280	2.28	1.82	0.80	**738-50**	**2** **1.5** **1**	2876 2157 1438	I II III									B7 B7 B7	KUTF JUTF HUTF
		3626	2.71	2.01	0.74	**738-50F**	**2** **1.5**	2675 2006	II III									B9 B7	KUTF JUTF
		6751	4.49	3.75	0.83	**752-50**	**3**	4509	II									B9	LUTF
		7678	5.61	4.26	0.76	**752-50F**	**5** **3**	6840 4104	I III									B9 B9	MUTF LUTF
		9378	6.12	5.21	0.85	**760-50**	**5** **3**	7659 4595	I III									B9 B9	MUTF LUTF
		9836	7.65	5.46	0.71	**760-50F**	**7.5** **5** **3**	9639 6426 3856	I II III									B11 B9 B9	NUTF MUTF LUTF
29.2	60	144	0.12	0.07	0.55	**710-60**	**0.17** **0.17**	144 144	I I									B4 B5	ACUT CUTF
		271	0.22	0.13	0.57	**713-60**	**0.17**	201	II									B5	CUTF
		399	0.28	0.18	0.66	**715-60**	**0.25** **0.17**	356 238	I II									B5 B5	DUTF EUTF
		527	0.35	0.24	0.70	**718-60**	**0.33** **0.25** **0.17**	502 376 251	I II III									B5 B5 B5	EUTF DUTF CUTF
		826	0.55	0.38	0.69	**721-60**	**0.50** **0.33** **0.25**	751 500 375	I II III									B5 B5 B5	FUTF EUTF DUTF
		1128	0.73	0.52	0.71	**724-60**	**0.75** **0.50** **0.33**	1128 772 515	I II III									B5 B5 B5	GUTF FUTF EUTF
		1385	0.89	0.64	0.72	**726-60**	**0.75** **0.50**	1166 778	I III									B5 B5	GUTF FUTF

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700 Series Single Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

For Ratings at Other Speeds, See Tables on Pages 30-33

A

Output RPM	Ratio	Non-Flanged Reducers					Flanged Reducers (Gearmotor)											Bore Code	Motors* 230/460 VAC 3 Phase 60 Hz
		Gear Capacity			Efficiency	Size	Ratings			Available Styles†									
		Output Torque (lb.in.)	HP Input	HP Output			Motor HP	Output Torque (lb.in.)	Service Class	F	QC	FAN	HF	SF	HQC	RF	SS		
29.2	60	1921	1.20	0.89	0.74	**730-60**	**1** **0.75** **0.50**	1601 1200 800	I II III									B5 B5 B5	HUTF-5/8 GUTF FUTF
		2281	1.40	1.06	0.75	**732-60**	**1.5** **1** **0.75**	2281 1629 1221	I II III									B7 B7 B5	JUTF HUTF GUTF
		2549	1.75	1.18	0.67	**732-60F**	**1.5** **1**	2184 1446	I III									B7 B7	JUTF HUTF
		3128	1.88	1.45	0.77	**738-60**	**1.5** **1**	2495 1633	II III									B7 B7	JUTF HUTF
		3277	2.24	1.52	0.68	**738-60F**	**2** **1.5**	2925 2193	I II									B7 B7	KUTF JUTF
		6416	3.67	2.97	0.81	**752-60**	**3**	5242	I									B9	LUTF
		6953	4.59	3.22	0.70	**752-60F**	**5** **3**	6953 4542	I II									B9 B9	MUTF LUTF
		8934	5.03	4.13	0.82	**760-60**	**5** **3**	8878 5327	I II									B9 B9	MUTF LUTF
		9528	6.29	4.41	0.70	**760-60F**	**5**	7571	II									B9	MUTF
21.9	80	222	0.15	0.08	0.53	**713-80**	**0.17**	222	I									B5	CUTF
		318	0.21	0.11	0.53	**715-80**	**0.17**	259	II									B5	CUTF
		387	0.22	0.13	0.61	**718-80**	**0.25** **0.17**	387 298	I II									B5 B5	DUFT CUTF
		634	0.38	0.22	0.58	**721-80**	**0.33** **0.25**	551 418	I II									B5 B5	EUTF DUTF
		1069	0.57	0.37	0.65	**726-80**	**0.5** **0.33**	936 623	I III									B5 B5	FUTF EUTF
		1795	0.95	0.62	0.65	**732-80**	**1** **0.75** **0.5**	1795 1404 936	I II III									B5 B5 B5	HUTF-5/8 GUTF FUTF
17.5	100	138	0.08	0.04	0.47	**713-100**	**0.17**	138	I									B5	CUTF
		251	0.15	0.07	0.47	**715-100**	**0.17**	251	I									B5	CUTF
		323	0.17	0.09	0.53	**718-100**	**0.17**	323	I									B5	CUTF
		503	0.27	0.14	0.52	**721-100**	**0.25** **0.17**	468 318	I II									B5 B5	DUTF CUTF
		757	0.39	0.21	0.54	**726-100**	**0.33** **0.25** **0.17**	642 486 330	I II III									B5 B5 B5	EUTF DUTF CUTF
		1414	0.65	0.39	0.6	**732-100**	**0.5** **0.33**	1080 713	II III									B5 B5	FUTF EUTF

* Totally Enclosed, Fan Cooled. For complete motor Catalog Numbers and additional motors, see Pages 337 and 342.
† Shaded areas denote which styles are available for a given center distance and ratio. See Pages 14-15 for style descriptions.
752 & 760 SIZES AVAILABLE ONLY IN RF-FLANGED COUPLING TYPES.
RATINGS SHOWN REFLECT THE USE OF KLUBERSYNTH UH1 6-460.

700 Series Single Reduction Ratio & Capacity Selection Tables

Horsepower and Torque Capacities at Listed RPM Inputs (Service Factor 1.0)

Series Size			710			713			715			718		
				Output			Output			Output			Output	
Ratio	Input RPM	Output RPM	Input HP	HP	Torque (lb-in)	Input HP	HP	Torque (lb-in)	Input HP	HP	Torque (lb-in)	Input HP	HP	Torque (lb-in)
5	**1750**	350	0.69	0.63	113	1.39	1.31	235	1.72	1.62	291	2.55	2.40	432
	1150	230	0.40	0.36	98	0.84	0.73	200	1.15	1.04	285	1.42	1.28	350
	690	138	0.26	0.23	105	0.50	0.45	205	0.80	0.72	330	0.97	0.87	400
	100	20	0.044	0.036	115	0.091	0.076	240	0.14	0.12	370	0.17	0.14	460
10	**1750**	175	0.44	0.38	138	0.86	0.78	281	1.20	1.10	397	1.61	1.49	536
	1150	115	0.23	0.21	118	0.51	0.44	243	0.73	0.64	350	0.98	0.87	480
	690	69	0.16	0.14	128	0.33	0.29	266	0.47	0.42	384	0.66	0.58	534
	100	10	0.03	0.022	140	0.06	0.047	296	0.086	0.068	432	0.12	0.097	610
15	**1750**	116.7	0.33	0.27	146	0.66	0.58	305	0.91	0.79	428	1.13	1.02	552
	1150	77.7	0.17	0.15	125	0.37	0.32	262	0.53	0.46	376	0.67	0.57	472
	690	46	0.12	0.10	134	0.26	0.21	288	0.36	0.30	415	0.46	0.39	534
	100	6.7	0.023	0.016	147	0.049	0.034	322	0.07	0.05	468	0.086	0.063	597
20	**1750**	87.5	0.27	0.21	149	0.52	0.43	308	0.72	0.60	435	0.97	0.82	590
	1150	57.5	0.14	0.12	129	0.29	0.24	265	0.43	0.35	380	0.58	0.48	525
	690	34.5	0.091	0.074	136	0.19	0.16	286	0.28	0.23	420	0.38	0.32	580
	100	5.0	0.017	0.012	150	0.04	0.026	330	0.056	0.038	485	0.08	0.055	690
25	**1750**	70	—	—	—	0.43	0.34	307	0.60	0.49	437	0.76	0.64	574
	1150	46	—	—	—	0.24	0.19	260	0.35	0.27	375	0.48	0.36	500
	690	27.6	—	—	—	0.15	0.12	280	0.22	0.18	410	0.30	0.24	540
	100	4.0	—	—	—	0.031	0.02	310	0.043	0.028	451	0.063	0.042	660
30	**1750**	58.3	0.20	0.14	150	0.39	0.29	311	0.54	0.41	446	0.65	0.53	573
	1150	38.3	0.10	0.081	133	0.21	0.16	270	0.31	0.23	388	0.40	0.32	530
	690	23	0.068	0.051	140	0.14	0.11	300	0.20	0.17	460	0.29	0.22	600
	100	3.3	0.013	0.008	155	0.029	0.018	340	0.04	0.026	496	0.057	0.037	710
40	**1750**	43.8	0.17	0.10	151	0.31	0.21	307	0.43	0.31	441	0.57	0.42	609
	1150	28.8	0.081	0.059	129	0.18	0.12	265	0.24	0.17	380	0.33	0.24	525
	690	17.3	0.051	0.037	130	0.10	0.078	286	0.15	0.11	420	0.22	0.16	580
	100	2.5	0.011	0.006	150	0.025	0.013	330	0.036	0.019	485	0.052	0.027	690
50	**1750**	35	0.15	0.09	153	0.25	0.17	297	0.35	0.24	429	0.44	0.32	573
	1150	23	0.06	0.042	114	0.12	0.09	248	0.18	0.13	360	0.24	0.17	470
	690	13.8	0.041	0.029	130	0.083	0.058	265	0.12	0.085	390	0.17	0.12	520
	100	2.0	0.008	0.004	140	0.018	0.009	300	0.027	0.014	440	0.038	0.019	590
60	**1750**	29.2	0.12	0.07	144	0.22	0.13	271	0.28	0.18	399	0.35	0.24	527
	1150	19.2	0.065	0.032	105	0.171	0.093	201	0.164	0.095	312	0.21	0.13	440
	690	11.5	0.044	0.02	112	0.101	0.046	253	0.114	0.061	338	0.14	0.084	480
	100	1.7	0.008	0.003	121	0.021	0.007	285	0.022	0.009	371	0.03	0.014	530
80	**1750**	21.9	—	—	—	0.15	0.08	222	0.21	0.11	318	0.23	0.13	375
	1150	14.4	—	—	—	0.12	0.06	246	0.17	0.018	358	0.16	0.089	390
	690	8.6	—	—	—	0.09	0.04	266	0.12	0.15	392	0.10	0.048	350
	100	1.3	—	—	—	0.02	0.01	293	0.03	0.01	440	0.02	0.009	470
100	**1750**	17.5	—	—	—	0.08	0.04	138	0.15	0.07	251	0.17	0.09	323
	1150	11.5	—	—	—	0.07	0.028	152	0.12	0.05	283	0.14	0.07	360
	690	6.9	—	—	—	0.05	0.018	164	0.09	0.03	309	0.10	0.04	391
	100	1.0	—	—	—	0.01	0.003	180	0.02	0.01	347	0.020	0.01	435
Overhung Load*			**150 LBS.**			**200 LBS.**			**300 LBS.**			**500 LBS.**		
Output Shaft Thrust Load			**200 LBS.**			**300 LBS.**			**400 LBS.**			**500 LBS.**		

RATINGS SHOWN REFLECT MAXIMUM GEAR CAPACITY WITH KLUBERSYNTH UH1 6-460.

*Overhung Load is at centerline of output shaft projection and with NO THRUST Load.

Note: For input speeds above 1750 RPM. Do NOT exceed 1750 RPM input horsepower (See page 347).

700 Series Single Reduction Ratio & Capacity Selection Tables

Horsepower and Torque Capacities at Listed RPM Inputs (Service Factor 1.0)

Series Size			721			724			726			730		
				Output			Output			Output			Output	
Ratio	Input RPM	Output RPM	Input HP	HP	Torque (lb-in)	Input HP	HP	Torque (lb-in)	Input HP	HP	Torque (lb-in)	Input HP	HP	Torque (lb-in)
5	1750	350	3.66	3.44	620	4.94	4.65	838	6.11	5.74	1034	8.32	7.82	1408
	1150	230	2.33	2.10	575	3.05	2.74	750	4.05	3.64	1000	5.85	5.47	1500
	690	138	1.64	1.47	670	2.25	2.01	920	3.04	2.74	1250	5.25	4.83	2206
	100	20	0.30	0.26	820	0.43	0.38	1200	0.58	0.51	1600	1.06	0.91	2873
10	1750	175	2.34	2.19	789	3.18	2.97	1069	3.94	3.74	1345	5.28	4.96	1787
	1150	115	1.49	1.32	725	2.09	1.87	1025	2.82	2.54	1390	4.25	3.84	2107
	690	69	1.00	0.89	814	1.46	1.31	1200	1.97	1.75	1600	3.15	2.79	2548
	100	10	0.19	0.15	968	0.27	0.23	1430	0.37	0.31	1960	0.63	0.51	3234
15	1750	116.7	1.72	1.56	840	2.34	2.15	1159	2.95	2.71	1465	3.97	3.64	1969
	1150	77.7	1.06	0.91	752	1.51	1.29	1060	2.01	1.73	1425	3.41	2.95	2425
	690	46.0	0.72	0.61	832	1.05	0.90	1239	1.41	1.22	1675	2.55	2.14	2928
	100	6.7	0.13	0.10	968	0.19	0.15	1463	0.28	0.22	2057	0.51	0.38	3610
20	1750	87.5	1.40	1.24	892	1.95	1.71	1233	2.34	2.06	1483	3.14	2.81	2024
	1150	57.5	0.86	0.72	782	1.27	1.06	1160	1.63	1.36	1500	2.68	2.23	2470
	690	35.0	0.57	0.48	875	0.83	0.70	1280	1.11	0.94	1725	1.67	1.52	2739
	100	5.0	0.11	0.08	1018	0.17	0.12	1550	0.20	0.16	2050	0.41	0.38	3584
25	1750	70	1.16	0.97	875	1.55	1.33	1199	1.94	1.68	1514	2.61	2.28	2051
	1150	46	0.72	0.58	790	1.03	0.84	1150	1.31	1.11	1525	2.30	1.86	2560
	690	27.6	0.47	0.38	875	0.69	0.56	1280	0.93	0.77	1750	1.50	1.26	2830
	100	4.0	0.094	0.062	975	0.14	0.095	1500	0.18	0.13	2075	0.30	0.21	3400
30	1750	58.3	0.99	0.81	871	1.33	1.11	1200	1.68	1.41	1521	2.27	1.89	2045
	1150	38.3	0.62	0.48	795	0.89	0.70	1170	1.20	0.96	1575	1.99	1.53	2510
	690	23	0.41	0.32	880	0.60	0.47	1300	0.81	0.65	1790	1.51	1.09	3000
	100	3.3	0.086	0.055	1050	0.12	0.078	1500	0.16	0.11	2100	0.32	0.20	3702
40	1750	43.8	0.81	0.61	876	1.08	0.84	1206	1.33	1.05	1512	1.78	1.43	2041
	1150	28.8	0.49	0.36	785	0.70	0.53	1160	0.89	0.68	1500	1.46	1.14	2470
	690	17.3	0.33	0.24	875	0.46	0.35	1280	0.61	0.47	1725	0.99	0.78	2900
	100	2.5	0.074	0.04	1018	0.11	0.061	1550	0.14	0.081	2050	0.23	0.14	3600
50	1750	35	0.66	0.48	857	0.87	0.65	1177	1.08	0.82	1484	1.45	1.12	2016
	1150	23	0.38	0.27	750	0.56	0.40	1100	0.75	0.54	1482	1.20	0.87	2400
	690	13.8	0.26	0.18	840	0.37	0.26	1225	0.51	0.37	1675	0.87	0.61	2750
	100	2.0	0.057	0.031	970	0.084	0.045	1425	0.11	0.063	1975	0.19	0.10	3200
60	1750	29.2	0.55	0.38	826	0.73	0.52	1128	0.89	0.64	1385	1.20	0.89	1921
	1150	19.2	0.34	0.22	730	0.49	0.32	1040	0.64	0.42	1390	1.01	0.68	2285
	690	11.5	0.23	0.15	805	0.33	0.21	1154	0.44	0.29	1570	0.27	0.45	2580
	100	1.7	0.055	0.025	930	0.073	0.036	1330	0.10	0.05	1840	0.13	0.08	3080
80	1750	21.9	0.38	0.22	634	—	—	—	0.76	0.38	1100	—	—	—
	1150	14.4	0.31	0.17	734	—	—	—	0.47	0.29	1252	—	—	—
	690	8.6	0.23	0.11	819	—	—	—	0.35	0.18	1340	—	—	—
	100	1.3	0.05	0.02	942	—	—	—	0.07	0.03	1600	—	—	—
100	1750	17.5	0.27	0.14	503	—	—	—	0.39	0.21	757	—	—	—
	1150	11.5	0.22	0.11	580	—	—	—	0.34	0.17	913	—	—	—
	690	6.9	0.16	0.07	646	—	—	—	0.26	0.12	1054	—	—	—
	100	1.0	0.04	0.01	744	—	—	—	0.06	0.02	1267	—	—	—
Overhung Load*			700 LBS.			900 LBS.			1000 LBS.			1250 LBS.		
Output Shaft Thrust Load			700 LBS.			800 LBS.			900 LBS.			1000 LBS.		

RATINGS SHOWN REFLECT MAXIMUM GEAR CAPACITY WITH KLUBERSYNTH UH1 6-460.

*Overhung Load is at centerline of output shaft projection and with NO THRUST Load.

Note: For input speeds above 1750 RPM. Do NOT exceed 1750 RPM input horsepower (See page 347).

700 Series Single Reduction Ratio & Capacity Selection Tables

Horsepower and Torque Capacities at Listed RPM Inputs (Service Factor 1.0)

A

Series Size			732			732F			738			738F		
				Output			Output			Output			Output	
Ratio	Input RPM	Output RPM	Input HP	HP	Torque (lb-in)	Input HP	HP	Torque (lb-in)	Input HP	HP	Torque (lb-in)	Input HP	HP	Torque (lb-in)
5	1750	350	10.05	9.54	1716	—	—	—	—	—	—	—	—	—
	1150	230	8.43	7.91	2165	—	—	—	—	—	—	—	—	—
	690	138	6.53	6.02	2749	—	—	—	—	—	—	—	—	—
	100	20	1.38	1.19	3735	—	—	—	—	—	—	—	—	—
10	1750	175	6.22	5.85	2106	7.75	7.03	2532	8.37	7.87	2834	9.96	8.94	3221
	1150	115	4.41	3.92	2150	5.03	4.47	2450	6.19	5.56	3050	6.90	6.20	3400
	690	69	3.17	2.85	2600	3.40	3.06	2800	4.54	4.05	3700	4.79	4.27	3900
	100	10	0.62	0.52	3300	0.62	0.52	3300	0.87	0.47	4700	0.87	0.47	4700
15	1750	116.7	4.65	4.34	2344	5.80	5.15	2782	6.28	5.84	3154	7.47	6.56	3543
	1150	77.7	3.15	2.74	2250	3.63	3.16	2600	4.30	3.77	3100	4.99	4.38	3600
	690	46	2.35	2.04	2800	2.52	2.19	3000	3.25	2.85	3900	3.50	3.06	4200
	100	6.7	0.48	0.39	3700	0.48	0.39	3700	0.68	0.55	5200	0.68	0.55	5200
20	1750	87.5	3.71	3.35	2413	4.63	3.97	2858	5.00	4.56	3285	5.95	5.15	3707
	1150	57.5	2.77	2.37	2600	3.20	2.74	3000	4.10	3.56	3900	4.55	3.94	4325
	690	34.5	1.99	1.70	3100	2.15	1.83	3850	2.91	2.52	4600	3.10	2.68	4900
	100	5.0	0.41	0.30	3846	0.41	0.30	3846	0.61	0.46	5800	0.61	0.46	5800
25	1750	70	3.08	2.71	2443	3.85	3.21	2891	—	—	—	—	—	—
	1150	46	2.29	1.90	2600	2.65	2.19	3000	—	—	—	—	—	—
	690	27.6	1.51	1.27	2900	1.67	1.40	3200	—	—	—	—	—	—
	100	4.0	0.31	0.22	3500	0.31	0.22	3500	—	—	—	—	—	—
30	1750	58.3	2.64	2.27	2456	3.30	2.69	2902	3.56	3.10	3354	4.23	3.48	3757
	1150	38.3	2.8	2.23	2675	2.36	1.88	3100	2.87	2.37	3900	3.38	2.67	4400
	690	23	1.41	1.16	3200	1.55	1.28	3500	2.08	1.68	4600	2.22	1.79	4900
	100	3.3	0.30	0.21	4000	0.3	0.21	4000	0.42	0.29	5600	0.42	0.29	5600
40	1750	43.8	2.10	1.70	2444	2.62	2.04	2944	2.80	2.30	3320	3.33	2.60	3747
	1150	28.8	1.52	1.19	2600	1.75	1.37	3000	2.25	1.78	3900	2.49	1.98	4325
	690	17.3	1.08	0.85	3100	1.17	0.91	3350	1.58	1.25	4600	1.68	1.33	4900
	100	2.5	0.25	0.15	3846	0.25	0.15	3846	0.37	0.23	5800	0.37	0.23	5800
50	1750	35	1.70	1.33	2403	2.12	1.55	2791	2.28	1.82	3280	2.71	2.01	3626
	1150	23	1.21	0.89	2450	1.41	1.04	2850	1.67	1.24	3400	1.96	1.46	4000
	690	13.8	0.87	0.61	2800	0.95	0.67	3050	1.19	0.85	3900	1.28	0.92	4200
	100	2.0	0.19	0.10	3325	0.19	0.10	3325	0.25	0.14	4500	0.25	0.14	4500
60	1750	29.2	1.40	1.06	2281	1.75	1.18	2549	1.88	1.45	3128	2.24	1.52	3496
	1150	19.2	1.05	0.70	2300	1.23	0.82	2700	1.50	1.02	3350	1.72	1.17	3850
	690	11.5	0.71	0.48	2650	0.78	0.53	2900	1.02	0.69	3800	1.10	0.75	4100
	100	1.7	0.16	0.083	3100	0.16	0.083	3100	0.22	0.12	4400	0.22	0.12	4400
80	1750	21.9	0.95	0.62	1795	—	—	—	—	—	—	—	—	—
	1150	14.4	0.81	0.50	2171	—	—	—	—	—	—	—	—	—
	690	8.6	0.61	0.34	2512	—	—	—	—	—	—	—	—	—
	100	1.3	0.14	0.06	3030	—	—	—	—	—	—	—	—	—
100	1750	17.5	0.65	0.39	1414	—	—	—	—	—	—	—	—	—
	1150	11.5	0.56	0.31	1711	—	—	—	—	—	—	—	—	—
	690	6.9	0.43	0.22	1980	—	—	—	—	—	—	—	—	—
	100	1	0.10	0.04	2387	—	—	—	—	—	—	—	—	—
Overhung Load*			1300 LBS.			1300 LBS			2000 LBS.			2000 LBS.		
Output Shaft Thrust Load			1100 LBS.			1100 LBS.			1300 LBS.			1300 LBS.		

RATINGS SHOWN REFLECT MAXIMUM GEAR CAPACITY WITH KLUBERSYNTH UH1 6-460.

*Overhung Load is at centerline of output shaft projection and with NO THRUST Load.

Note: For input speeds above 1750 RPM. Do NOT exceed 1750 RPM input horsepower (See page 347).

700 Series Single Reduction Ratio & Capacity Selection Tables

Horsepower and Torque Capacities at Listed RPM Inputs (Service Factor 1.0)

Series Size			752			752F			760			760F		
				Output			Output			Output			Output	
Ratio	Input RPM	Output RPM	Input HP	HP	Torque (lb-in)	Input HP	HP	Torque (lb-in)	Input HP	HP	Torque (lb-in)	Input HP	HP	Torque (lb-in)
10	**1750**	175	17.31	16.27	5860	21.63	19.94	7182	23.83	22.40	8067	26.13	24.04	8658
	1150	115	12.27	11.31	6200	14.25	13.14	7200	18.60	17.15	9400	20.78	19.16	10500
	690	69	9.58	8.54	7800	10.55	9.41	8600	14.87	13.41	12250	16.09	14.51	13250
	100	10	1.93	1.67	10500	1.93	1.67	10500	3.19	2.79	17600	3.19	2.79	17600
15	**1750**	116.7	13.06	12.25	6618	16.32	14.49	7829	17.87	16.76	9055	22.33	19.83	10712
	1150	77.7	9.14	8.15	6700	10.50	9.37	7700	12.56	11.20	9200	14.73	13.14	10800
	690	46	7.19	6.42	8800	7.74	6.92	9475	9.20	8.21	11250	10.76	9.61	13184
	100	6.7	1.56	1.26	11900	1.56	1.26	11900	2.18	1.81	17000	2.18	1.81	17000
20	**1750**	87.5	10.19	9.49	6830	12.74	11.21	8075	14.02	13.07	9412	17.52	15.38	11080
	1150	57.5	7.57	6.66	7300	8.70	7.66	8400	10.63	9.35	10250	11.93	10.49	11500
	690	34.5	5.59	4.93	9000	5.97	5.25	9600	7.83	6.89	12600	8.54	7.53	13750
	100	5.0	1.18	0.92	11585	1.18	0.92	11585	1.63	1.34	17000	1.63	1.34	17000
30	**1750**	58.3	7.30	6.45	6964	9.12	7.72	8336	9.81	8.89	9603	12.26	10.38	11219
	1150	38.3	5.50	4.68	7700	6.29	5.34	8800	7.50	6.38	10500	8.39	7.14	11750
	690	23	4.03	3.43	9400	4.38	3.72	10200	5.48	4.67	12800	5.91	5.04	13800
	100	3.3	0.93	0.64	12250	0.93	0.64	12250	1.24	0.92	17500	1.24	0.92	17500
40	**1750**	43.8	5.60	4.78	6889	7.00	5.68	8178	7.65	6.64	9566	9.56	7.77	11197
	1150	28.8	4.06	3.33	7300	4.68	3.84	8400	5.74	4.68	10250	6.44	5.25	11500
	690	17.3	3.01	2.46	9000	3.21	2.62	9600	4.21	3.44	12600	4.60	3.75	13750
	100	2.5	0.71	0.46	11585	0.71	0.46	11585	1.00	0.67	17000	1.00	0.67	17000
50	**1750**	35	4.49	3.75	6751	5.61	4.26	7678	6.12	5.21	9378	7.65	5.46	9836
	1150	23	3.34	2.48	6800	3.93	2.92	8000	4.68	3.58	9800	5.25	4.01	11000
	690	13.8	2.32	1.77	8100	2.52	1.93	8800	3.52	2.68	12250	3.80	2.90	13250
	100	2.0	0.46	0.28	9000	0.46	0.28	9000	0.80	0.51	16000	0.80	0.51	16000
60	**1750**	29.2	3.67	2.97	6416	4.59	3.22	6953	5.03	4.13	8934	6.29	4.41	9528
	1150	19.2	2.89	2.04	6700	3.33	2.34	7700	4.31	2.98	9800	4.84	3.35	11000
	690	11.5	2.07	1.46	8000	2.25	1.59	8700	3.22	2.23	12200	3.48	2.41	13200
	100	1.7	0.43	0.24	9000	0.43	0.24	9000	0.74	0.43	16000	0.74	0.43	16000
Overhung Load*			**2200 LBS.**			**2200 LBS**			**2400 LBS.**			**2400 LBS.**		
Output Shaft Thrust Load			**1900 LBS.**			**1900 LBS.**			**2100 LBS.**			**2100 LBS.**		

RATINGS SHOWN REFLECT MAXIMUM GEAR CAPACITY WITH KLUBERSYNTH UH1 6-460.

*Overhung Load is at centerline of output shaft projection and with NO THRUST Load.

Note: For input speeds above 1750 RPM. Do NOT exceed 1750 RPM input horsepower (See page 347).

700 Series Single Reduction Flanged Reducer Dimensions

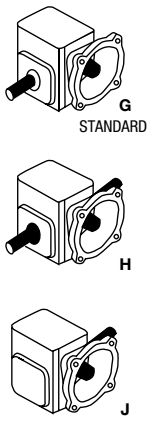
F700/QC700 Series Flanged Quill/Flanged Coupling Types

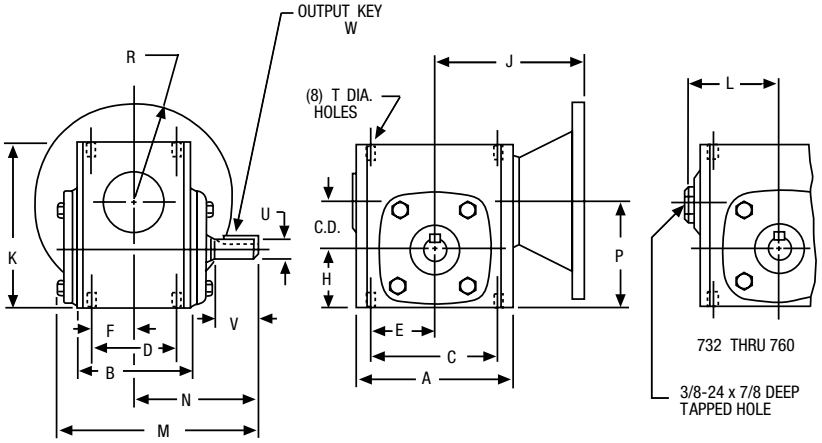
Basic Models (No Base)

FOR ORDERING INFORMATION, see Page 16

FOR RATING INFORMATION, See Pages 17, 22-33

ASSEMBLY TYPES*





ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	H	J-NEMA Mounting †† F700 56C 140TC	J-NEMA Mounting †† F700 180TC 210C	J-NEMA Mounting †† QC700 56C 140TC	J-NEMA Mounting †† QC700 180TC 210TC 250TC	J-NEMA Mounting †† RF700 56C	J-NEMA Mounting †† RF700 180TC 210TC 250TC	K	L	M
710	1.00	3.25	2.50	2.63	1.69	1.31	0.84	1.31	3.97	—	5.01	—	5.72	—	3.63	—	4.53
713	1.33	4.25	2.88	3.25	2.00	1.63	1.00	1.72	3.94	—	5.46	—	6.59	—	4.64	—	6.03
715	1.54	5.13	3.69	4.19	2.75	2.09	1.38	1.91	4.50	—	6.11	—	7.34	—	5.38	—	6.84
718	1.75	5.50	3.69	4.19	2.75	2.09	1.38	2.06	4.69	—	6.29	—	7.53	—	5.75	—	6.81
721	2.06	6.00	3.81	5.00	2.88	2.50	1.44	2.28	5.06	—	6.76	—	8.31	—	6.38	—	7.28
724	2.38	6.38	4.06	5.00	2.88	2.50	1.44	2.50	5.25	5.69	6.95	7.81	8.50	9.94	6.94	—	7.81
726	2.62	7.38	4.44	6.38	3.38	3.19	1.69	2.94	5.75	6.19	7.39	8.31	9.47	10.44	8.00	—	8.53
730	3.00	8.12	5.25	7.00	4.00	3.50	2.00	3.25	6.20	6.64	7.84	8.77	9.92	10.88	8.88	—	10.02
732	3.25	9.00	5.88	7.50	4.00	3.75	2.00	3.50	6.56	7.00	8.20	9.13	10.28	11.25	9.38	4.94	10.81
738	3.75	10.00	6.38	8.50	4.75	4.25	2.38	3.88	7.06	7.50	8.70	10.28	11.81	12.88	10.44	5.50	11.88
752	5.16	13.13	7.38	11.00	5.81	5.50	2.91	5.31	—	—	—	—	—	16.00	13.75	7.19	13.81
760	6.00	14.50	8.13	12.75	6.38	6.38	3.19	6.50	—	—	—	—	—	16.69	16.50	7.94	15.31

Size	N	P	R-NEMA Mounting 42CZ	R-NEMA Mounting 56C 140TC	R-NEMA Mounting 180TC 210TC 250TC	T TAP Size	T Depth	Low Speed Shaft U +.000 -.001	Low Speed Shaft V	Low Speed Shaft W-Key Sq.	Low Speed Shaft W-Key Lenght	Aprox. Weight (LBS.) F700	Aprox. Weight (LBS.) QC700	Fan Kit No.**
710	2.88	2.31	2.16	3.31	—	1/4-20	.44	.500	1.19	1/8	5/8	6	8	—
713	4.00	3.06	—	3.31	—	5/16-18	.50	.625	2.00	3/16	1	12	15	—
715	4.31	3.44	—	3.31	—	5/16-18	.50	.750	1.78	3/16	1	18	24	—
718	4.31	3.81	—	3.31	—	5/16-18	.50	.875	1.78	3/16	1	20	27	—
721	4.69	4.34	—	3.31	—	3/8-16	.56	1.000	2.09	1/4	1-1/4	25	30	—
724	5.09	4.88	—	3.31	4.63	3/8-16	.56	1.125	2.38	1/4	1-1/4	31	36	—
726	5.63	5.56	—	3.31	4.63	3/8-16	.56	1.125	2.63	1/4	1-15/16	46	47	—
730	6.75	6.25	—	3.31	4.63	7/16-14	.88	1.250	3.25	1/4	2-1/4	66	72	—
732	7.06	6.75	—	3.31	4.63	7/16-14	.66	1.375	3.25	5/16	2-7/16	84	84	51450
738	7.75	7.63	—	3.31	4.63	1/2-13	.81	1.625	3.50	3/8	2-1/4	117	119	51451
752	9.06	10.50	—	—	4.63	5/8-11	1.00	2.000	4.16	1/2	2-15/16	—	221	51452
760	10.00	12.50	—	—	4.63	5/8-11	1.00	2.250	4.56	1/2	3-3/8	—	270	51453

*See Assemblies and Mounting Positions, Page 18.
**For Fan Kits, see Page 130.
For Base Kits, see Page 129.
†† 42CZ Flange Dimensions: F700 J = 3.16 : QC700 J = 4.15 : RF700 J = 4.76

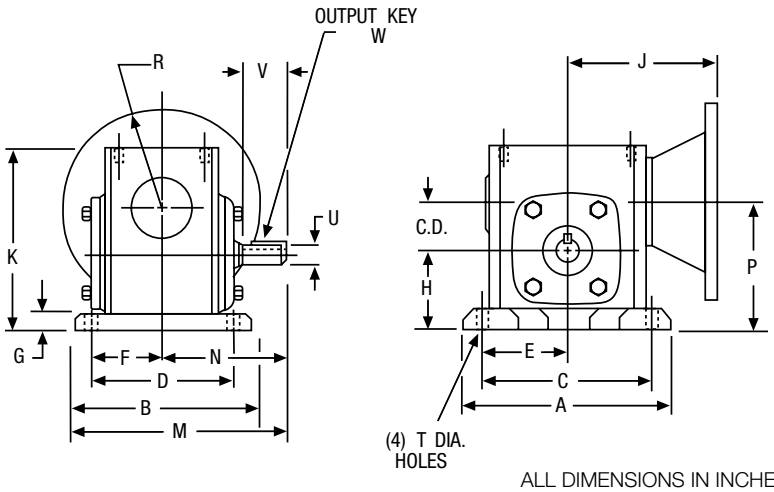
700 Series Single Reduction Flanged Reducer Dimensions

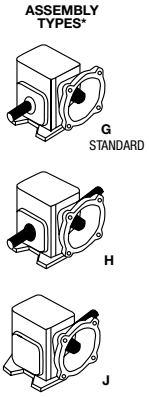
F700/QC700 Series Flanged Quill/Flanged Coupling Types

B Position Horizontal Base

FOR ORDERING INFORMATION, see Page 16

FOR RATING INFORMATION, See Pages 17, 22-33





ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J-NEMA Mounting †† F700 56C 140TC	F700 180TC 210C	QC700 56C 140TC	QC700 180TC 210TC 250TC	RF700 56C	RF700 180TC 210TC 250TC	K	M
710	1.00	4.63	3.69	3.75	2.88	1.88	1.44	0.44	1.75	3.97	—	5.01	—	5.72	—	4.06	4.72
713	1.33	5.38	4.19	4.38	3.31	2.19	1.66	0.53	2.25	3.94	—	5.46	—	6.59	—	5.19	6.09
715	1.54	6.44	5.44	5.25	4.31	2.63	2.16	0.59	2.50	4.50	—	6.11	—	7.34	—	5.97	7.03
718	1.75	7.00	5.69	5.75	4.50	2.88	2.25	0.69	2.75	4.69	—	6.29	—	7.53	—	6.44	7.16
721	2.06	7.75	5.94	6.38	4.69	3.19	2.34	0.72	3.00	5.06	—	6.76	—	8.31	—	7.09	7.66
724	2.38	8.50	6.19	7.06	4.88	3.53	2.44	0.75	3.25	5.25	5.69	6.95	7.81	8.50	9.94	7.69	8.19
726	2.62	9.63	6.66	8.00	5.25	4.00	2.63	0.75	3.69	5.75	6.19	7.39	8.31	9.47	10.44	8.75	8.97
730	3.00	10.00	7.50	8.44	5.88	4.22	2.94	0.75	4.00	6.20	6.64	7.84	8.77	9.92	10.88	9.63	10.50
732	3.25	11.19	7.66	9.50	6.13	4.75	3.06	0.88	4.38	6.56	7.00	8.20	9.13	10.28	11.25	10.25	10.94
738	3.75	12.13	8.66	10.38	7.00	5.19	3.50	0.94	4.81	7.06	7.50	8.70	10.28	11.81	12.88	11.38	12.09
752	5.16	16.38	10.63	14.13	8.38	7.06	4.19	1.13	6.44	—	—	—	—	—	16.00	14.88	14.38
760	6.00	19.00	12.00	16.50	9.50	8.25	4.75	1.25	7.75	—	—	—	—	—	16.69	17.75	16.00

Size	N	P	R-NEMA Mounting 42CZ	R-NEMA Mounting 56C 140TC	R-NEMA Mounting 180TC 210TC 250TC	T	Low Speed Shaft U +.000 -.001	Low Speed Shaft V	Low Speed Shaft W-Key Sq.	Low Speed Shaft W-Key Length	Aprox. Weight (LBS.) F700	Aprox. Weight (LBS.) QC700	Base Kit No.†	Fan Kit No.**
710	2.88	2.75	2.16	3.31	—	11/32	.500	1.19	1/8	5/8	7	8	56575	—
713	4.00	3.59	—	3.31	—	11/32	.625	2.00	3/16	1	13	16	56577	—
715	4.31	4.06	—	3.31	—	13/32	.750	1.78	3/16	1	19	25	56438	—
718	4.31	4.50	—	3.31	—	13/32	.875	1.78	3/16	1	21	28	56585	—
721	4.69	5.06	—	3.31	—	15/32	1.000	2.09	1/4	1-1/4	26	31	56440	—
724	5.09	5.63	—	3.31	4.63	15/32	1.125	2.38	1/4	1-1/4	32	37	56591	—
726	5.63	6.31	—	3.31	4.63	17/32	1.125	2.63	1/4	1-15/16	49	49	56595	—
730	6.75	7.00	—	3.31	4.63	17/32	1.250	3.25	1/4	2-1/4	71	72	65544	—
732	7.06	7.63	—	3.31	4.63	17/32	1.375	3.25	5/16	2-7/16	93	94	56599	51450
738	7.75	8.56	—	3.31	4.63	19/32	1.625	3.50	3/8	2-1/4	131	140	56603	51451
752	9.06	11.63	—	—	4.63	25/32	2.000	4.16	1/2	2-15/16	—	242	56607	51452
760	10.00	13.75	—	—	4.63	29/32	2.250	4.56	1/2	3-3/8	—	300	56610	51453

*See Assemblies and Mounting Positions, Page 18.
**For Fan Kits, see Page 130.
For Base Kits, see Page 129.
†† 42CZ Flange Dimensions: F700 J = 3.16 : QC700 J = 4.15 : RF700 J = 4.76

700 Series Single Reduction Flanged Reducer Dimensions

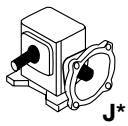
F700/QC700 Series Flanged Quill/Flanged Coupling Types

A Position Horizontal Base

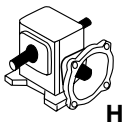
FOR ORDERING INFORMATION, see Page 16

FOR RATING INFORMATION, See Pages 17, 22-33

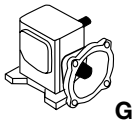
ASSEMBLY TYPES*



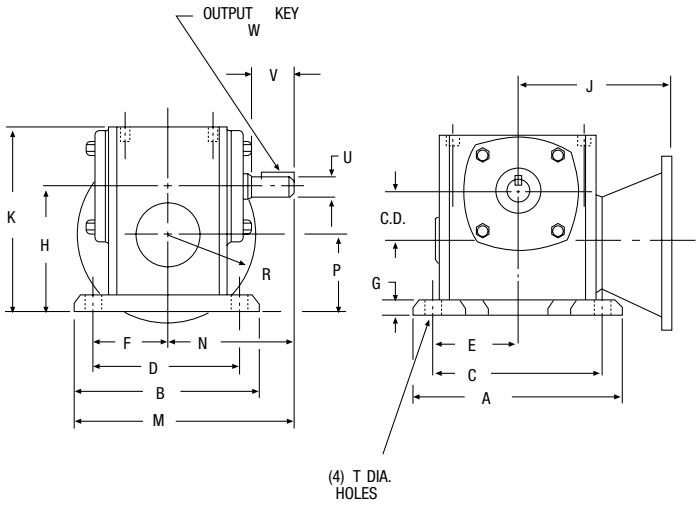
J* STANDARD



H



G



All DIMENSIONS IN INCHES

NEMA Mounting	Input	
	Bore +.0015 -.0000	Keyway
42CZ	0.5	1/8 x 1/16
56C	0.625	3/16 x 3/32
140TC	0.875	3/16 x 3/32
180TC	1.125	1/4 x 1/8
210TC	1.375	5/16 x 5/32

All DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J-NEMA Mounting ††						K	M
										F700		QC700		RF700			
										56C 140TC	180TC 210C	56C 140TC	180TC 210TC 250TC	56C	180TC 210TC 250TC		
710	1.00	4.62	3.69	3.75	2.88	1.88	1.44	0.44	2.75	3.97	—	5.01	—	5.72	—	4.06	4.72
713	1.33	5.38	4.19	4.38	3.31	2.19	1.66	0.53	3.47	3.94	—	5.46	—	6.59	—	5.19	6.09
715	1.54	6.44	5.44	5.25	4.31	2.63	2.16	0.59	4.06	4.50	—	6.11	—	7.34	—	5.97	7.03
718	1.75	7.00	5.69	5.75	4.50	2.88	2.25	0.69	4.38	4.69	—	6.29	—	7.53	—	6.44	7.16
721	2.06	7.75	5.94	6.37	4.69	3.19	2.34	0.72	4.81	5.06	—	6.76	—	8.31	—	7.09	7.66
724	2.37	8.50	6.19	7.06	4.88	3.53	2.44	0.75	5.19	5.25	5.69	6.95	7.81	8.50	9.94	7.69	8.19
726	2.62	9.63	6.66	8.00	5.25	4.00	2.62	0.75	5.81	5.75	6.19	7.39	8.31	9.47	10.44	8.75	8.97
730	3.00	10.00	7.50	8.44	5.88	4.22	2.94	0.75	6.38	6.20	6.64	7.84	8.77	9.92	10.88	9.63	10.50
732	3.25	11.19	7.66	9.50	6.12	4.75	3.06	0.88	6.75	6.56	7.00	8.20	9.13	10.28	11.25	10.25	10.89
738	3.75	12.13	8.66	10.37	7.00	5.19	3.50	0.94	7.50	7.06	7.50	8.70	10.28	11.81	12.88	11.38	12.09

Size	N	P	R NEMA Mounting					T Holes	Low Speed Shaft				Aprox. Wieght (LBS.)		Base Kit No.†	Fan Kit No.**
			42CZ	56C	140TC	180TC	210TC		U +.000/-.001	V	W-Key Sq.	W-Key Length	F700	QC700		
710	2.88	1.75	2.16	3.31	—	—	—	11/32	.500	1.19	1/8	5/8	7	8	56575	—
713	4.00	2.13	—	3.31	—	—	—	11/32	.625	2.00	3/16	1	13	16	56577	—
715	4.31	2.50	—	3.31	3.31	—	—	13/32	.750	1.78	3/16	1	19	25	56438	—
718	4.31	2.63	—	3.31	3.31	—	—	13/32	.875	1.78	3/16	1	21	28	56585	—
721	4.69	2.75	—	3.31	3.31	—	—	15/32	1.000	2.09	1/4	1-1/4	26	31	56440	—
724	5.09	2.81	—	3.31	3.31	4.63	—	15/32	1.125	2.37	1/4	1-1/4	32	37	56591	—
726	5.62	3.19	—	3.31	3.31	4.63	—	17/32	1.125	2.62	1/4	1-15/16	49	49	56595	—
730	6.75	3.38	—	3.31	3.31	4.63	—	17/32	1.250	3.25	1/4	2-1/4	71	72	65544	—
732	7.06	3.50	—	3.31	3.31	4.63	—	17/32	1.375	3.25	5/16	2-7/16	93	94	56599	51450
738	7.75	3.75	—	—	3.31	4.63	4.63	19/32	1.625	3.50	3/8	2-1/4	131	140	56603	51451

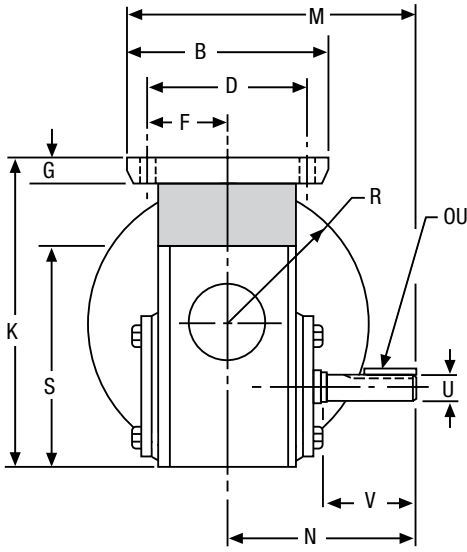
* See Assemblies and Mounting Positions, Page 18.
** For Fan Kits, see Page 130.
For Base Kits, see Page 129.
†† 42CZ Flange Dimensions: F700 J = 3.16 : QC700 J = 4.15 : RF700 J = 4.76

F700/QC700 Series Flanged Quill/Flanged Coupling Types

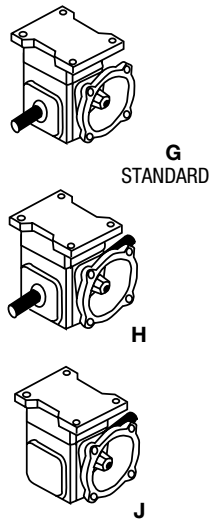
BRB Position Horizontal Base with Riser Block

FOR ORDERING INFORMATION, see Page 16

FOR RATING INFORMATION, See Pages 17, 22-33



ASSEMBLY TYPES*



Size	C.D.	A	B	C	D	E	F	G	H			J-NEMA Mounting ††						K		
									NEMA Mounting			F700		QC700		RF700				
									42CZ	56C 140TC	180TC 210C	56C 140TC	180TC 210C	56C 140TC	180TC 210C	56C	180TC 210C 250TC	42CZ	56C 140TC	180TC 210C
710	1.00	4.63	3.69	3.75	2.88	1.88	1.44	.44	3.94	5.13	—	3.97	—	5.01	—	5.72	—	5.25	6.44	—
713	1.33	5.38	4.19	4.38	3.31	2.19	1.66	.53	—	5.47	—	3.94	—	5.46	—	6.59	—	—	7.19	—
715	1.54	6.44	5.44	5.25	4.31	2.63	2.16	.59	—	5.66	—	4.50	—	6.11	—	7.34	—	—	7.57	—
718	1.75	7.00	5.69	5.75	4.50	2.88	2.25	.69	—	6.06	—	4.69	—	6.29	—	7.53	—	—	8.13	—
721	2.06	7.75	5.94	6.38	4.69	3.19	2.34	.72	—	6.34	—	5.06	—	6.76	—	8.31	—	—	8.63	—
724	2.38	8.50	6.19	7.06	4.88	3.53	2.44	.75	—	6.69	8.19	5.25	5.69	6.95	7.81	8.50	9.94	—	9.19	10.69
726	2.62	9.63	6.66	8.00	5.25	4.00	2.63	.75	—	7.06	8.33	5.75	6.19	7.39	8.31	9.47	10.44	—	10.00	11.27
730	3.00	10.00	7.5	8.44	5.88	4.22	2.94	.75	—	7.44	8.51	6.20	6.64	7.84	8.77	9.92	10.88	—	10.69	11.76
732	3.25	11.19	7.66	9.5	6.13	4.75	3.06	.88	—	7.94	9.13	6.56	7.00	8.20	9.13	10.28	11.25	—	11.44	12.63

Size	M	N	P			R			S	T	Low Speed Shaft				Aprox. Weight (LBS.)		Base Kit No.†	Fan Kit No.**
			NEMA Mounting			NEMA Mounting					U +.000 -.001	V	W-Key					
			42CZ	56C 140TC	180TC 210C	42CZ	56C 140TC	180TC 210C					Sq.	Length	F	QC		
710	4.72	2.88	2.94	4.13	—	1.69	3.31	—	3.62	11/32	.500	1.19	1/8	5/8	7	8	56575	—
713	6.09	4.00	—	4.13	—	—	3.31	—	4.66	11/32	.625	2.00	3/16	1	13	16	56577	—
715	7.03	4.31	—	4.10	—	—	3.31	—	5.38	13/32	.750	1.78	3/16	1	19	24	56438	—
718	7.16	4.31	—	4.32	—	—	3.31	—	5.75	13/32	.875	1.78	3/16	1	21	27	56585	—
721	7.66	4.69	—	4.29	—	—	3.31	—	6.38	15/32	1.000	2.09	1/4	1 1/4	26	31	56440	—
724	8.19	5.09	—	4.31	5.81	—	3.31	4.63	6.94	15/32	1.125	2.38	1/4	1 1/4	32	37	56591	—
726	8.97	5.63	—	4.45	5.71	—	3.31	4.63	8.00	17/32	1.125	2.63	1/4	1 15/16	49	49	56595	—
730	10.50	6.75	—	4.44	5.51	—	3.31	4.63	8.88	17/32	1.250	3.25	1/4	2-1/4	71	72	65544	—
732	10.94	7.06	—	4.69	5.88	—	3.31	4.63	9.38	17/32	1.375	3.25	5/16	2 7/16	93	94	56599	51450

* See Assemblies and Mounting Positions, Page 18.
** For Fan Kits, see Page 130.
For Base Kits, see Page 129.
†† 42CZ Flange Dimensions: F700 J = 3.16 : QC700 J = 4.15 : RF700 J = 4.76

700 Series Single Reduction Flanged Reducer Dimensions

F700/QC700 Series Flanged Quill/Flanged Coupling Types

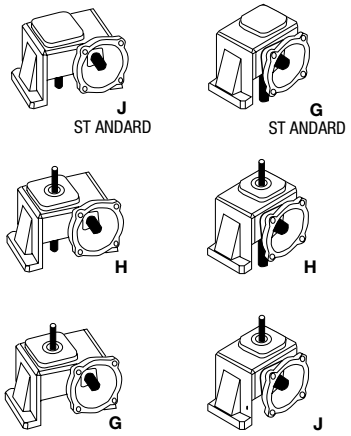
C/D Position Vertical Base; C/E High Base; D/F Low Base

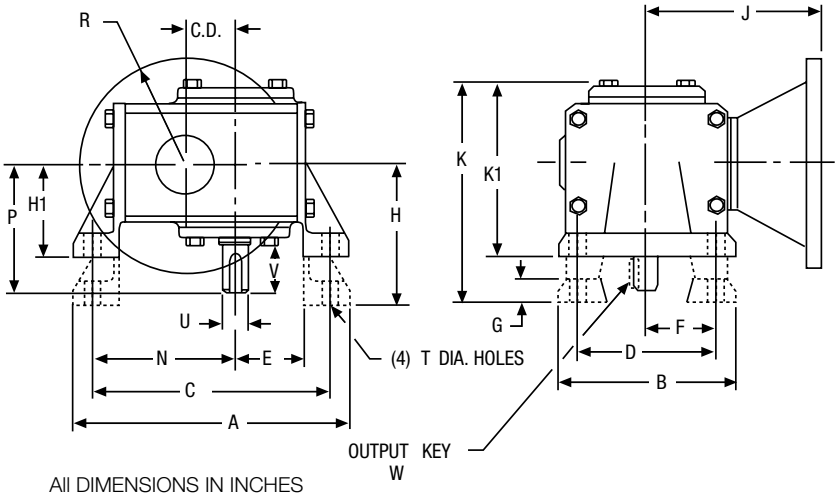
FOR ORDERING INFORMATION, see Page 16

FOR RATING INFORMATION, See Pages 17, 22-33

ASSEMBLY TYPES*

C/D BASES **E/F BASES**





All DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	H1	J-NEMA Mounting ††						K	K1
											F700		QC700		RF700			
											56C 140TC	180TC 210C	56C 140TC	180TC 210TC 250TC	56C	180TC 210TC 250TC		
710	1.00	6.06	3.22	5.13	2.31	1.38	1.16	0.44	2.94	—	3.97	—	5.01	—	5.72	—	4.59	—
713	1.33	7.09	4.13	6.16	3.25	1.78	1.63	0.53	3.56	2.31	3.94	—	5.46	—	6.59	—	5.59	4.34
715	1.54	8.03	5.16	6.97	4.00	1.97	2.00	0.69	4.38	3.00	4.50	—	6.11	—	7.34	—	6.91	5.53
718	1.75	8.44	5.16	7.38	4.00	2.13	2.00	0.69	4.38	3.00	4.69	—	6.29	—	7.53	—	6.88	5.50
721	2.06	9.50	6.03	8.38	4.88	2.34	2.44	0.72	4.88	3.13	5.06	—	6.76	—	8.31	—	7.50	5.75
724	2.38	10.06	6.31	8.94	4.88	2.56	2.44	0.75	5.25	3.38	5.25	5.69	6.95	7.81	8.50	9.94	7.97	6.09
726	2.62	11.69	7.38	10.13	5.75	3.00	2.88	0.88	5.59	3.63	5.75	6.19	7.39	8.31	9.47	10.44	8.50	6.53
730	3.00	12.50	8.00	11.13	6.00	3.34	3.00	0.94	5.88	3.94	6.20	6.64	7.84	8.77	9.92	10.88	9.13	7.20
732	3.25	13.38	9.00	11.88	6.13	3.56	3.06	0.88	6.25	4.69	6.56	7.00	8.20	9.13	10.28	11.25	10.00	8.56
738	3.75	15.69	10.00	13.94	8.00	4.00	4.00	0.94	7.00	5.25	7.06	7.50	8.70	10.28	11.81	12.88	11.12	9.38
752	5.16	20.50	13.13	18.00	10.00	5.44	5.00	1.13	8.63	6.38	—	—	—	—	—	16.00	13.38	11.13
760	6.00	23.25	14.75	20.88	11.75	6.63	5.88	1.13	9.63	7.31	—	—	—	—	—	16.69	14.94	12.63

Size	N	P	R NEMA Mounting			T Holes	Low Speed Shaft				High Base			Low Base			Fan Kit No.**
			42CZ	180TC 56C 140TC	210TC 250TC		U +.000 -.001	V	W-KEY Sq.	W-KEY Length	Approx. Weight (LBS.) F	Approx. Weight (LBS.) QC	Base Kit No. †	Approx. Weight (LBS.) F	Approx. Weight (LBS.) QC	Base Kit No. †	
710	3.06	2.88	2.16	3.31	—	11/32	.500	1.19	1/8	5/8	7	10	56576	—	—	—	—
713	3.69	4.00	—	3.31	—	11/32	.625	2.00	3/16	1	13	19	56578	12	16	56579	—
715	4.25	4.31	—	3.31	—	13/32	.750	1.78	3/16	1	22	27	56582	21	26	56583	—
718	4.50	4.31	—	3.31	—	13/32	.875	1.78	3/16	1	24	30	56582	23	29	56583	—
721	5.09	4.69	—	3.31	—	15/32	1.000	2.09	1/4	1-1/4	29	35	56588	28	32	56589	—
724	5.44	5.09	—	3.31	4.63	15/32	1.125	2.38	1/4	1-1/4	39	44	56592	38	40	56593	—
726	6.13	5.63	—	3.31	4.63	17/32	1.125	2.63	1/4	1-15/16	59	57	56596	51	53	56597	—
730	6.75	6.75	—	3.31	4.63	17/32	1.250	3.25	1/4	2-1/4	77	79	65545	73	76	65546	—
732	7.13	7.06	—	3.31	4.63	17/32	1.375	3.25	5/16	2-7/16	95	98	56600	90	93	56601	51450
738	8.31	7.75	—	3.31	4.63	19/32	1.625	3.50	3/8	2-1/4	153	147	56604	143	136	56605	51451
752	10.56	9.06	—	—	4.63	29/32	2.000	4.16	1/2	2-15/16	—	267††	56608	—	255	56609	51452
760	12.19	10.00	—	—	4.63	29/32	2.250	4.56	1/2	3-3/8	—	345††	56611	—	325	56612	51453

* See Assemblies and Mounting Positions, Page 18. ** For Fan Kits, see Page 130.
† For Base Kits, see Page 129.
†† 42CZ Flange Dimensions: F700 J = 3.16 : QC700 J = 4.15 : RF700 J = 4.76

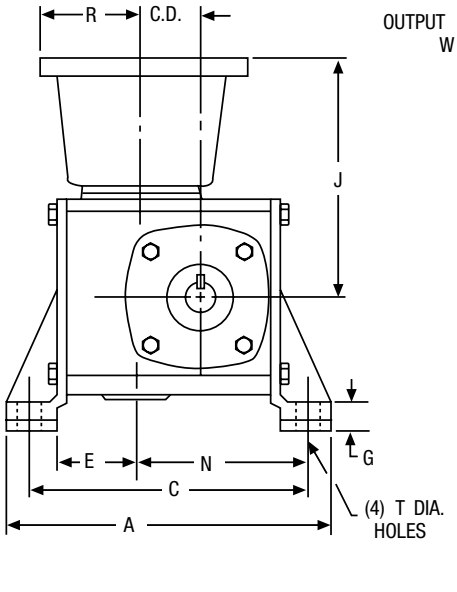
700 Series Single Reduction Flanged Reducer Dimensions

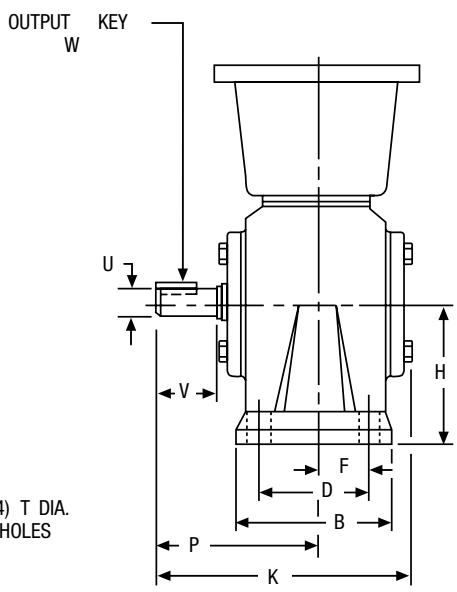
F700/QC700 Series Flanged Quill/Flanged Coupling Types

X Position Vertical Base; X = Input Vertical Up

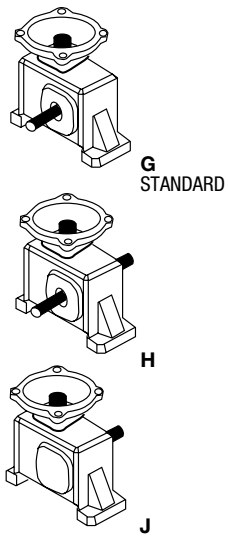
FOR ORDERING INFORMATION, see Page 16

FOR RATING INFORMATION, See Pages 17, 22-33





ASSEMBLY TYPES*



All DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J-NEMA Mounting ††						K	N
										F700		QC700		RF700			
										56C 140TC	180TC 210C	56C 140TC	180TC 210TC	56C	180TC 210TC 250TC		
713	1.33	7.28	2.91	6.41	2.00	1.70	1.00	0.53	2.94	3.94	—	5.46	—	6.59	—	6.03	3.92
715	1.54	8.25	3.72	7.25	2.50	2.00	1.25	0.69	3.50	4.50	—	6.11	—	7.34	—	6.84	4.37
718	1.75	8.62	3.72	7.63	2.50	2.00	1.25	0.69	3.50	4.69	—	6.29	—	7.53	—	6.81	4.75
721	2.06	9.75	3.84	8.63	2.63	2.09	1.31	0.72	3.94	5.06	—	6.76	—	8.31	—	7.28	5.47
724	2.37	10.31	4.13	9.19	2.88	2.13	1.44	0.75	4.06	5.25	5.69	6.95	7.81	8.50	9.94	7.81	6.00
726	2.62	11.88	4.53	10.38	3.13	2.50	1.56	0.88	4.75	5.75	6.19	7.39	8.31	9.47	10.44	8.53	6.75

Size	P	R-NEMA Mounting		T Holes	Low Speed Shaft				Aproximate Weight (LBS.)		Base Kit No.†
		56C 140TC	180TC		U +.000 -.001	V	W-Key		F	QC	
							Sq.	Length			
713	4.00	3.31	—	11/32	.625	2.00	3/16	1	13	13	55196
715	4.31	3.31	—	13/32	.750	1.78	3/16	1	21	24	55349
718	4.30	3.31	—	13/32	.875	1.78	3/16	1	22	27	55349
721	4.69	3.31	—	15/32	1.000	2.09	1/4	1-1/4	28	30	55644
724	5.09	3.31	4.63	15/32	1.125	2.38	1/4	1-1/4	37	37	55678
726	5.63	3.31	4.63	17/32	1.125	2.63	1/4	1-1/4	54	55	55769

* Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounted surfaces. Input may be rotated clockwise or counterclockwise. See Assemblies and Mounting Positions, Page 18.

† For Base Kits, see Page 129.

†† 42CZ Flange Dimensions: F700 J = 3.16 : QC700 J = 4.15 : RF700 J = 4.76

700 Series Single Reduction Flanged Reducer Dimensions

HF700/HQC700 Series Flanged Quill/Flanged Coupling Types

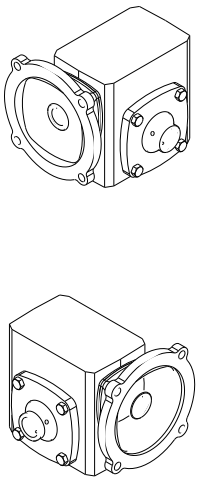
Basic Models (No Base); Bored to Size, Hollow Output Shaft

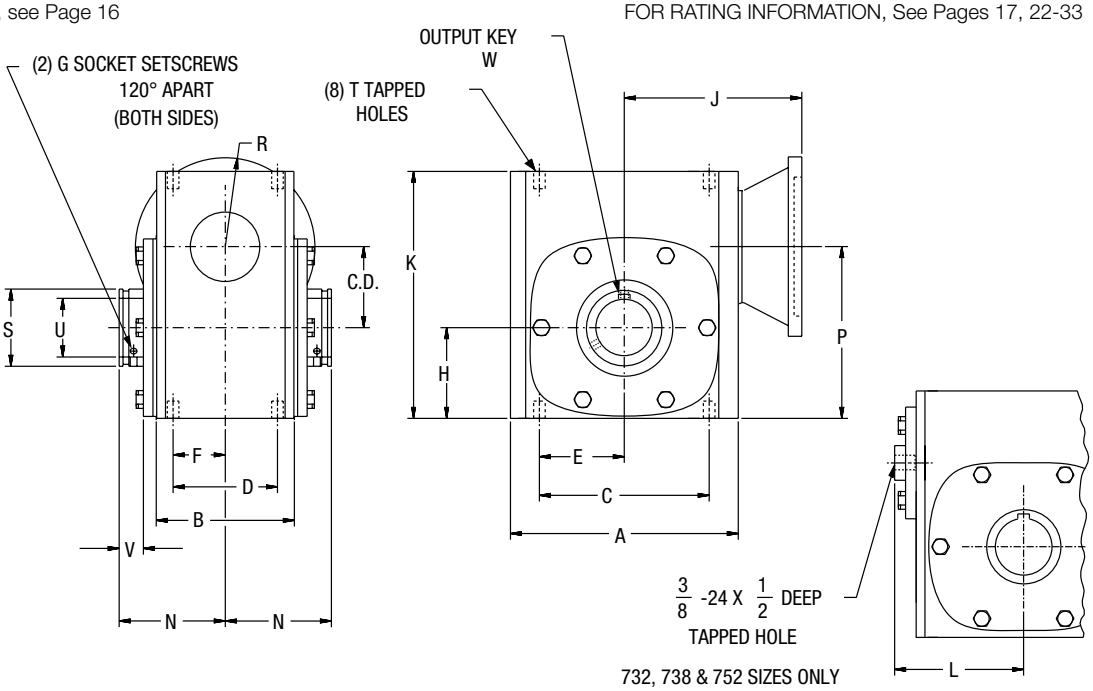
A

FOR ORDERING INFORMATION, see Page 16

FOR RATING INFORMATION, See Pages 17, 22-33

ASSEMBLY TYPES*





ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J-NEMA Mounting ††						K	L	N
										F700		QC700		RF700				
										56C 140TC	180TC 210C	56C 140TC	180TC 210TC 250TC	56C	180TC 210TC 250TC			
713	1.33	4.25	2.88	3.25	2.00	1.63	1.00	#10-32	1.72	3.97	—	5.46	—	6.59	—	4.66	—	2.50
715	1.54	5.13	3.69	4.19	2.75	2.09	1.38	#10-32	1.91	4.50	—	6.11	—	7.34	—	5.38	—	3.03
718	1.75	5.50	3.69	4.19	2.75	2.09	1.38	#10-32	2.06	4.69	—	6.29	—	7.53	—	5.75	—	3.03
721	2.06	6.00	3.81	5.00	2.88	2.50	1.44	1/4-28	2.28	5.06	—	6.76	—	8.31	—	6.38	—	3.22
724	2.38	6.38	4.06	5.00	2.88	2.50	1.44	1/4-28	2.50	5.25	5.69	6.95	7.81	8.50	9.94	6.94	—	3.22
726	2.62	7.38	4.44	6.38	3.38	3.19	1.69	5/16-24	2.94	5.75	6.19	7.39	8.31	9.47	10.44	8.00	—	3.44
730	3.00	8.12	5.25	7.00	4.00	3.50	2.00	5/16-24	3.25	6.20	6.64	7.84	8.77	9.92	10.88	8.88	—	4.19
732	3.25	9.00	5.88	7.50	4.00	3.75	2.00	5/16-24	3.50	6.56	7.00	8.20	9.13	10.28	11.25	9.38	4.94	4.31
738	3.75	10.00	6.38	8.50	4.75	4.25	2.38	3/8-24	3.88	7.06	7.50	8.70	10.28	11.81	12.88	10.44	5.50	4.81
752	5.16	13.13	7.38	11.0	5.81	5.50	2.91	3/8-24	5.31	—	—	—	—	—	16.00	13.75	7.19	6.12

Size	P	R-NEMA Mounting		S	T		Low Speed Shaft				Approx. Weight(LBS.)		Fan Kit No.**
		56C 140TC	180TC 210C		Tap Size	Depth	Max U +.0015/-.0000	V	W-Key		HF	HQC	
									Size	Length			
713	3.06	3.31	—	.88	5/16-18	.50	.625	.68			7	9	—
715	3.44	3.31	—	1.38	5/16-18	.50	1.000	.84			21	21	—
718	3.81	3.31	—	1.38	5/16-18	.50	1.000	.74			23	24	—
721	4.34	3.31	—	2.00	3/8-16	.56	1.4375	.87	See Page		27	27	—
724	4.88	3.31	4.63	2.00	3/8-16	.56	1.4375	.75	128 For		36	40	—
726	5.56	3.31	4.63	2.50	3/8-16	.56	1.9375	.78	Key Information		49	49	—
730	6.25	3.31	4.63	2.88	7/16-14	.88	2.1875	1.10			70	74	—
732	6.75	3.31	4.63	2.88	7/16-14	.66	2.1875	.93			90	102	51450
738	7.63	3.31	4.63	3.25	1/2-13	.75	2.4375	1.11			130	141	51451
752	10.50	—	4.63	4.25	5/8-11	1.00	3.4375	1.37			—	242	51457

* See Assemblies and Mounting Positions, Page 18. ** For Fan Kits, see Page 130 . See Page 128 for available bore sizes.
Input may be rotated clockwise or counterclockwise. The "SF" style is recommended for direct replacement only.
†† 42CZ Flange Dimensions: F700 J = 3.16 : QC700 J = 4.15 : RF700 J = 4.76

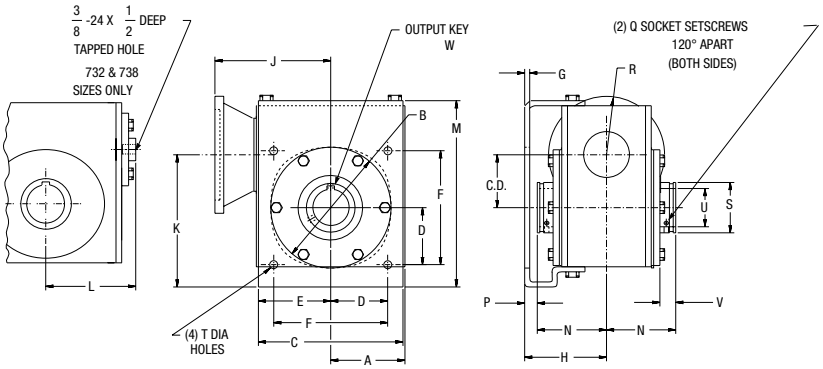
HF700/HQC700 Series Flanged Quill/Flanged Coupling Types

R/L Position Mounting Bracket; Bored to Size, Hollow Output Shaft

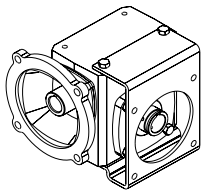
FOR ORDERING INFORMATION, see Page 16

FOR RATING INFORMATION, See Pages 17, 22-33

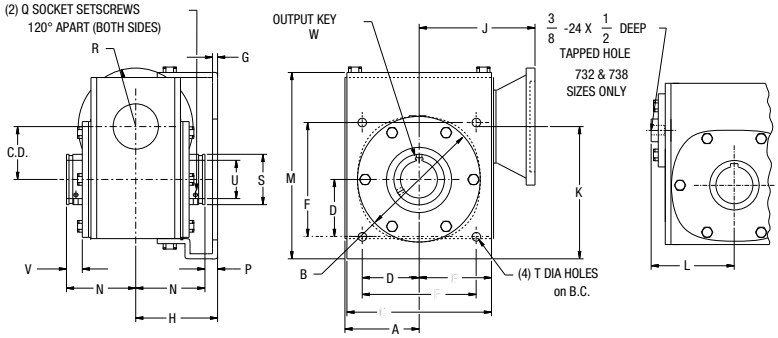
R Position

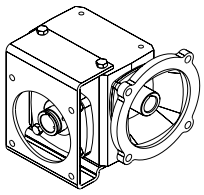


ASSEMBLY TYPES*



L Position





ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J-NEMA Mounting †† HF700 56C 140TC	HF700 180TC 210C	HQC700 56C 140TC	HQC700 180TC 210TC	RF700 56C	RF700 180TC 210TC 250TC	K	L
713	1.33	2.12	3.62	4.25	1.77	2.12	3.54	0.19	3.00	3.94	—	5.46	—	6.59	—	3.70	—
715	1.54	2.56	3.62	4.75	1.77	2.38	3.54	0.19	3.56	4.50	—	6.11	—	7.34	—	4.07	—
718	1.75	2.75	4.06	5.00	2.08	2.41	4.16	0.19	3.50	4.69	—	6.29	—	7.53	—	4.53	—
721	2.06	3.00	4.50	5.75	2.30	2.88	4.60	0.19	3.75	5.06	—	6.76	—	8.31	—	5.18	—
724	2.38	3.19	5.00	6.12	2.65	2.88	5.30	0.25	3.72	5.25	5.69	6.95	7.81	8.50	9.94	5.98	—
726	2.62	3.69	6.00	7.18	2.83	3.59	5.66	0.25	4.06	5.75	6.19	7.39	8.31	9.47	10.44	6.56	—
730	3.00	4.06	7.00	8.00	3.18	4.00	6.36	0.25	4.50	6.20	6.64	7.84	8.77	9.92	10.88	7.51	—
732	3.25	4.50	7.00	8.50	3.54	4.25	7.08	0.25	5.25	6.56	7.00	8.20	9.13	10.28	11.25	8.00	4.94
738	3.75	5.00	8.00	9.50	4.06	4.75	8.12	0.25	5.47	7.06	7.50	8.70	10.28	11.81	12.88	8.78	5.50

Size	M	N	P	Q	R-NEMA Mounting 56C 140TC	R-NEMA Mounting 180TC 210C	S	T Holes	B.C.	Low Speed Shaft +.0015 -.0000	V	W-Key Size	W-Key Length	Approx. Weight(LBS.) HF	Approx. Weight(LBS.) HQC	Fan Kit No.**
713	5.55	2.50	.50	#10-32	3.31	—	.88	11/32	5.000	.625	.68			16	20	—
715	6.16	3.03	.44	#10-32	3.31	—	1.38	11/32	5.000	1.000	.84			22	28	—
718	6.66	3.03	.47	#10-32	3.31	—	1.38	11/32	5.875	1.000	.74	See Page		29	31	—
721	7.47	3.22	.53	1/4-28	3.31	—	1.94	13/32	6.500	1.4375	.87	128 For		36	36	—
724	8.30	3.22	.50	1/4-28	3.31	4.63	1.94	13/32	7.500	1.4375	.75	Key		41	47	—
726	9.25	3.44	.62	5/16-24	3.31	4.63	2.50	13/32	8.000	1.9375	.78	Information		52	52	—
730	10.38	4.19	.31	5/16-24	3.31	4.63	2.88	13/32	8.000	2.1875	1.12			76	80	—
732	10.91	4.31	.94	5/16-24	3.31	4.63	2.88	9/16	10.000	2.1875	.93			95	107	51450
738	11.84	4.81	.66	3/8-24	3.31	4.63	3.25	9/16	11.500	2.4375	1.11			147	150	51451

* See Assemblies and Mounting Positions, Page 18. ** For Fan Kits, see Page 130 . See Page 128 for available bore sizes.
Input may be rotated clockwise or counterclockwise. The "SF" style is recommended for direct replacement only.
†† 42CZ Flange Dimensions: F700 J = 3.16 : QC700 J = 4.15 : RF700 J = 4.76

700 Series Single Reduction Flanged Reducer Dimensions

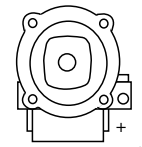
SF700 Series Flanged Quill Type

Basic Models (No Base), Hollow Output Shaft

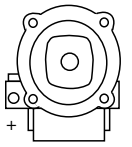
FOR ORDERING INFORMATION, see Page 16

FOR ADDITIONAL SIZES, See the H Series Page 40
FOR RATING INFORMATION, See Pages 17, 22-33

ASSEMBLY TYPES*

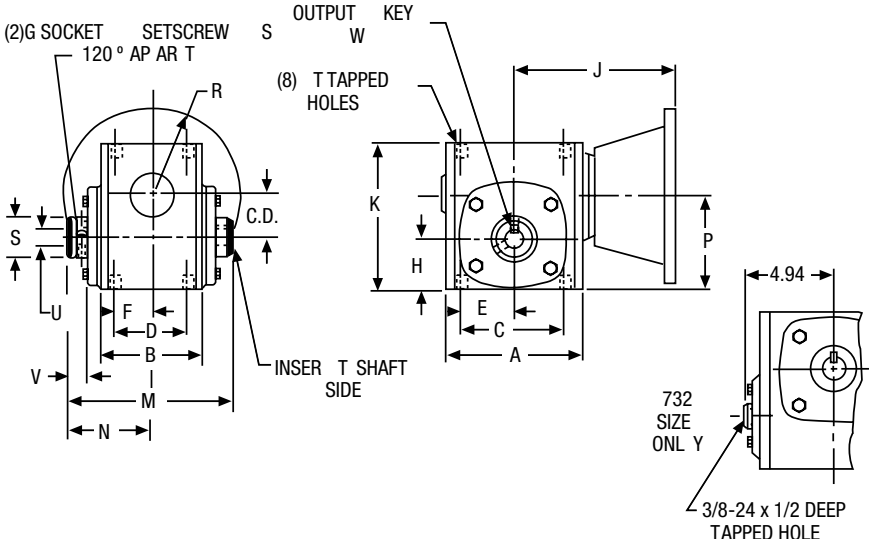


G
STANDARD



J

+HOLLOW SHAFT SETSCREW ON THIS SIDE.



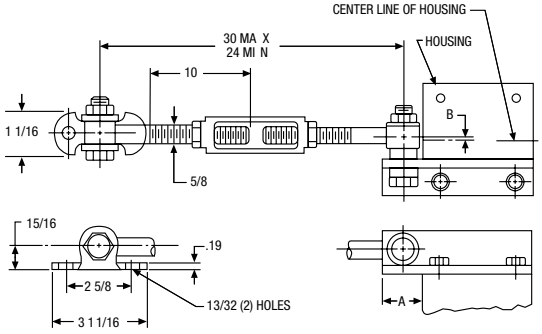
ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J-NEMA Mounting SF700 56C 140TC	J-NEMA Mounting SF700 180TC 210C	K	M	N
718	1.75	5.50	3.69	4.19	2.75	2.09	1.38	#10-32	2.06	4.69	—	5.75	5.69	3.09
721	2.06	6.00	3.81	5.00	2.88	2.50	1.44	1/4-28	2.28	5.06	—	6.38	5.88	3.22
726	2.62	7.38	4.44	6.38	3.38	3.19	1.69	1/4-28	2.94	5.75	6.19	8.00	6.47	3.50
732	3.25	9.00	5.88	7.50	4.00	3.75	2.00	3/8-24	3.50	6.56	7.00	9.38	8.06	4.38

Size	P	R-NEMA Mounting 56C 140TC	R-NEMA Mounting 180TC 210C	S	T Tap Size	T Depth	Low Speed Shaft U †† +.0015 -.000	Low Speed Shaft V	Low Speed Shaft W-Key Size	Low Speed Shaft W-Key Length	Approx. Weight (LBS.) SF	Fan Kit No.**
718	3.81	3.31	—	1.38	5/16-18	.50	1.000	.78	See Page		23	—
721	4.34	3.31	—	1.50	3/8-16	.56	1.125	.88	128 For		27	—
726	5.56	3.31	4.63	2.16	3/8-16	.56	1.4375	.84	Key Information		51	—
732	6.75	3.31	4.63	2.56	7/16-14	.66	1.9375	1.00			90	51450

** For Fan Kits, see Page 130.
†† For additional output bore diameters, refer to the H Series, Page 128.
* Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounted surfaces. Input may be rotated clockwise or counterclockwise. See Assemblies and Mounting Positions, Page 18

Reaction Rod Kits



All DIMENSIONS IN INCHES

Size	A	B	Catalog Number	Kit No.
718	1.09	.09	X718-76K	69692
721	1.25	.03	X721-76K	69693
726	1.25	.22	X726-76K	69694
732	1.50	.53	X732-76K	69695

All hardware shown is included in the kits.

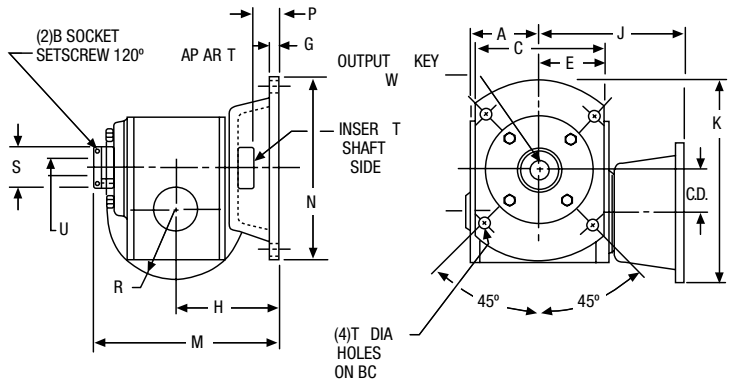
SF700 Series Flanged Quill Type

V/W Position Mounting Flange, Hollow Output Shaft

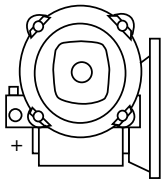
FOR ORDERING INFORMATION, see Page 16

FOR ADDITIONAL SIZES, See the H Series Page 41
FOR RATING INFORMATION, See Pages 17, 22-33

V Position



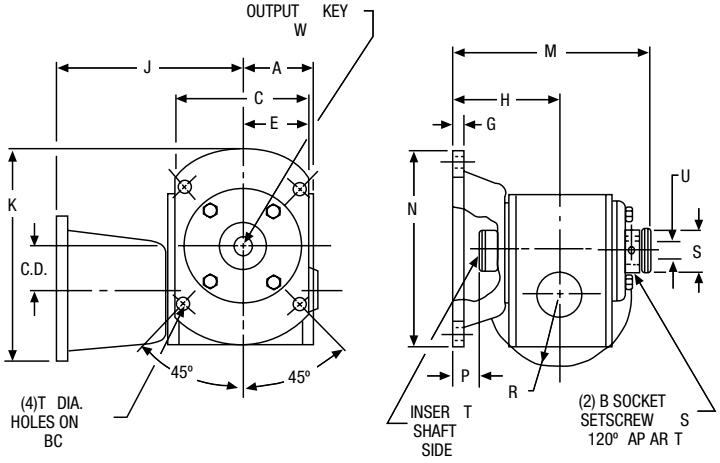
ASSEMBLY TYPES*



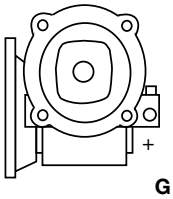
J STANDARD

+HOLLOW SHAFT SETSCREW ON THIS SIDE.

W Position



ASSEMBLY TYPES*



G STANDARD

+HOLLOW SHAFT SETSCREW ON THIS SIDE.

ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	BC	E	G	H	J-NEMA Mounting † SF700 56C 140TC	J-NEMA Mounting † SF700 180TC 210C	K
718	1.75	2.75	#10-32	4.88	5.88	2.44	.38	3.50	4.69	—	8.03
721	2.06	3.00	1/4-28	5.75	6.50	2.88	.38	3.75	5.06	—	8.66
726	2.62	3.69	1/4-28	7.75	8.00	3.88	.38	4.06	5.75	6.19	11.69
732	3.25	4.50	3/8-24	9.00	10.00	4.50	.50	5.25	6.56	7.00	13.38

Size	M	N	P	R-NEMA Mounting 56C 140TC	R-NEMA Mounting 180TC 210C	S	T Holes	Low Speed Shaft U +.0015 -.000	Low Speed Shaft W-Key Size	Low Speed Shaft W-Key Length	Approx. Weight (LBS.) SF	Fan Kit No.**
718	6.59	6.75	.91	3.31	—	1.38	11/32	1.000	See Page		28	—
721	6.97	7.38	1.09	3.31	—	1.50	13/32	1.125	128 For		35	—
726	7.56	8.88	1.09	3.31	4.63	2.16	13/32	1.4375	Key Information		69	—
732	9.63	11.00	1.56	3.31	4.63	2.56	9/16	1.9375			119	51450

** For Fan Kits, see Page 130.

* Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounted surfaces. Input may be rotated clockwise or counterclockwise. See Assemblies and Mounting Positions, Page 18.

† 42CZ Flange Dimensions: F700 J = 3.16 : QC700 J = 4.15 : RF700 J = 4.76

700 Series Single Reduction Non-Flanged Reducer Dimensions

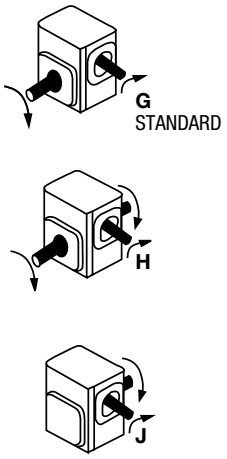
700 Series

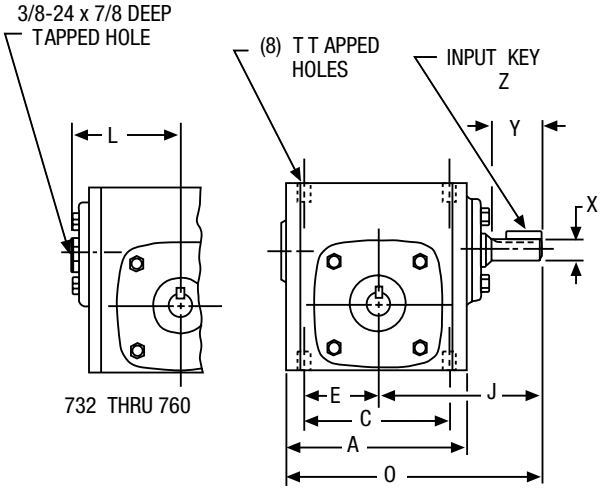
Basic Models (No Base)

FOR ORDERING INFORMATION, see Page 16

FOR RATING INFORMATION, See Pages 17, 22-33

ASSEMBLY TYPES*





ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	H	J	K	L	M	N	O
710	1.00	3.25	2.50	2.63	1.69	1.31	.84	1.31	2.88	3.63	—	4.53	2.88	4.50
713	1.33	4.25	2.88	3.25	2.00	1.63	1.00	1.72	3.91	4.66	—	6.03	4.00	6.03
715	1.54	5.13	3.69	4.19	2.75	2.09	1.38	1.91	4.69	5.38	—	6.84	4.31	7.25
718	1.75	5.50	3.69	4.19	2.75	2.09	1.38	2.06	4.88	5.75	—	6.84	4.31	7.63
721	2.06	6.00	3.81	5.00	2.88	2.50	1.44	2.28	5.13	6.38	—	7.28	4.69	8.13
724	2.38	6.38	4.06	5.00	2.88	2.50	1.44	2.50	5.75	6.94	—	7.81	5.09	8.94
726	2.62	7.38	4.44	6.38	3.38	3.19	1.69	2.94	6.31	8.00	—	8.53	5.63	10.00
730	3.00	8.12	5.25	7.00	4.00	3.50	2.00	3.25	6.88	8.88	—	10.02	6.75	10.94
732	3.25	9.00	5.88	7.50	4.00	3.75	2.00	3.50	7.44	9.38	4.94	10.81	7.06	11.94
738	3.75	10.00	6.38	8.50	4.75	4.25	2.38	3.88	8.38	10.44	5.50	11.88	7.75	13.38
752	5.16	13.13	7.38	11.00	5.81	5.50	2.91	5.31	10.69	13.75	7.19	13.81	9.06	17.25
760	6.00	14.50	8.13	12.75	6.38	6.13	3.19	6.50	11.75	16.50	7.94	15.31	10.00	19.00

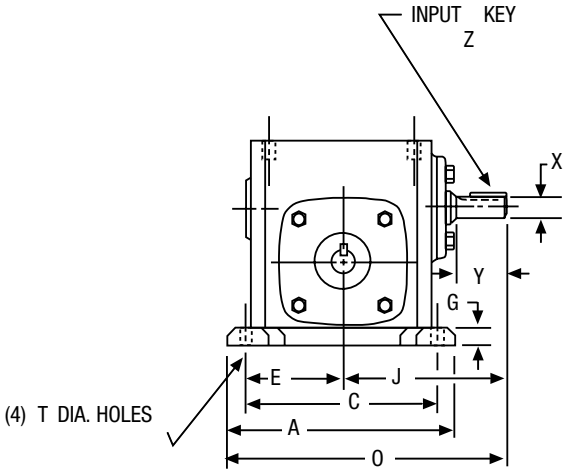
Size	T		Low Speed Shaft				High Speed Shaft				Approx. Weight (LBS.)	Fan Kit No.**
	Tap Size	Depth	U +.000 -.001	V	W-Key Sq.	W-Key Lengh	X +.000 -.001	Y	Z-Key Sq.	Z-Key Length		
710	1/4-20	.44	.500	1.19	1/8	5/8	.3745	.81	3/32	3/8	6	—
713	5/16-18	.50	.625	2.00	3/16	1	.4995	1.31	1/8	5/8	11	—
715	5/16-18	.50	.750	1.78	3/16	1	.6245	1.56	3/16	13/16	18	—
718	5/16-18	.50	.875	1.78	3/16	1	.6245	1.56	3/16	13/16	20	—
721	3/8-16	.56	1.000	2.09	1/4	1-1/4	.6245	1.56	3/16	13/16	25	—
724	3/8-16	.56	1.125	2.37	1/4	1-1/4	.7495	2.00	3/16	1	31	—
726	3/8-16	.56	1.125	2.62	1/4	1-15/16	.7495	2.00	3/16	1	43	—
730	7/16-14	.88	1.250	3.25	1/4	2-1/4	.8745	2.24	3/16	1	57	—
732	7/16-14	.66	1.375	3.25	5/16	2-7/16	.8745	2.34	3/16	1	72	51450
738	1/2-13	.81	1.625	3.50	3/8	2-1/4	.9995	2.75	1/4	1-1/4	105	51451
752	5/8-11	1.00	2.000	4.16	1/2	2-15/16	1.2495	3.25	1/4	1-1/4	198	51452
760	5/8-11	1.00	2.250	4.56	1/2	3-3/8	1.4995	3.88	3/8	3	240	51453

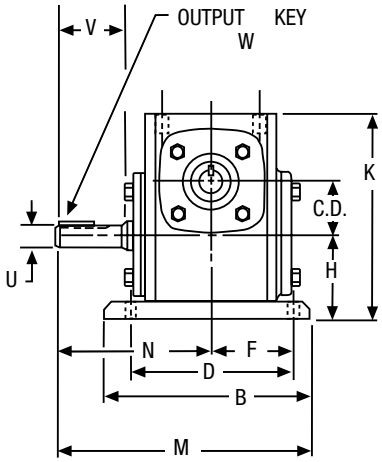
* See Assemblies and Mounting Positions, Page 19.
** For Fan Kits, see Page 130.

700 Series
B Position Horizontal Base

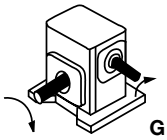
FOR ORDERING INFORMATION, see Page 16

FOR RATING INFORMATION, See Pages 17, 22-33

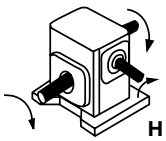




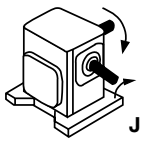
ASSEMBLY TYPES*



G STANDARD



H



J

ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J	K	M	N	O
710	1.00	4.63	3.69	3.75	2.88	1.88	1.44	0.44	1.75	2.88	4.06	4.72	2.88	5.19
713	1.33	5.38	4.19	4.38	3.31	2.19	1.66	0.53	2.25	3.91	5.19	6.09	4.00	6.59
715	1.54	6.44	5.44	5.25	4.31	2.63	2.16	0.59	2.50	4.69	5.97	7.03	4.31	7.91
718	1.75	7.00	5.69	5.75	4.50	2.88	2.25	0.69	2.75	4.88	6.44	7.16	4.31	8.38
721	2.06	7.75	5.94	6.38	4.69	3.19	2.34	0.72	3.00	5.13	7.09	7.66	4.69	9.00
724	2.38	8.50	6.19	7.06	4.88	3.53	2.44	0.75	3.25	5.75	7.69	8.19	5.09	10.00
726	2.62	9.63	6.66	8.00	5.25	4.00	2.63	0.75	3.69	6.31	8.75	8.97	5.63	11.13
730	3.00	10.00	7.50	8.44	5.88	4.22	2.94	0.75	4.00	6.81	9.63	10.50	6.75	11.88
732	3.25	11.19	7.66	9.50	6.13	4.75	3.06	0.88	4.38	7.44	10.25	10.94	7.06	13.03
738	3.75	12.13	8.66	10.38	7.00	5.19	3.50	0.94	4.81	8.38	11.38	12.09	7.75	14.44
752	5.16	16.38	10.63	14.13	8.38	7.06	4.19	1.13	6.44	10.69	14.88	14.38	9.06	18.88
760	6.00	19.00	12.00	16.50	9.50	8.25	4.75	1.25	7.75	11.75	17.75	16.00	10.00	21.25

		Low Speed Shaft				High Speed Shaft						
		U		W-Key		X		Z-Key		Approx.	Base	Fan
Size	T	+.000 -.001	V	Sq.	Lengh	+.000 -.001	Y	Sq.	Length	Weight (LBS.)	Kit No. †	Kit No.**
710	11/32	.500	1.19	1/8	5/8	.3745	.81	3/32	3/8	7	56575	—
713	11/32	.625	2.00	3/16	1	.4995	1.31	1/8	5/8	12	56577	—
715	13/32	.750	1.78	3/16	1	.6245	1.56	3/16	13/16	19	56438	—
718	13/32	.875	1.78	3/16	1	.6245	1.56	3/16	13/16	21	56585	—
721	15/32	1.000	2.09	1/4	1-1/4	.6245	1.56	3/16	13/16	26	56440	—
724	15/32	1.125	2.37	1/4	1-1/4	.7495	2.00	3/16	1	32	56591	—
726	17/32	1.125	2.62	1/4	1-15/16	.7495	2.00	3/16	1	46	56595	—
730	17/32	1.250	3.25	1/4	2-1/4	.8745	2.24	3/16	1	64	65544	—
732	17/32	1.375	3.25	5/16	2-7/16	.8745	2.31	3/16	1	81	56599	51450
738	19/32	1.625	3.50	3/8	2-1/4	.9995	2.75	1/4	1-1/4	115	56603	51451
752	25/32	2.000	4.16	1/2	2-15/16	1.2495	3.25	1/4	1-1/4	212	56607	51452
760	29/32	2.250	4.56	1/2	3-3/8	1.4995	3.88	3/8	3	260	56610	51453

* See Assemblies and Mounting Positions, Page 19.
** For Fan Kits, see Page 130.
† For Base Kits, see Page 129.

700 Series Single Reduction Non-Flanged Reducer Dimensions

700 Series

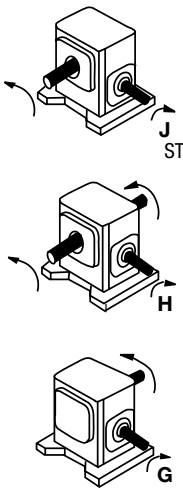
A Position Horizontal Base

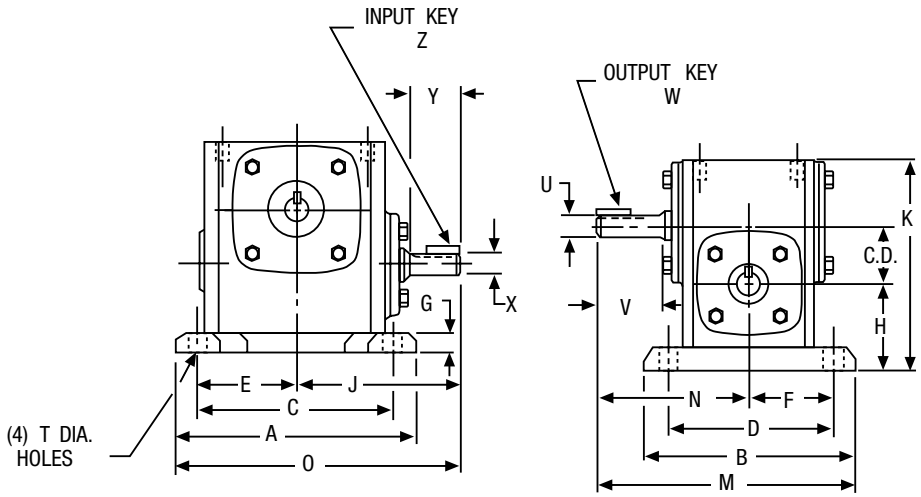
A

FOR ORDERING INFORMATION, see Page 16

FOR RATING INFORMATION, See Pages 17, 22-33

ASSEMBLY TYPES*





ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J	K	M	N	O
710	1.00	4.63	3.69	3.75	2.88	1.88	1.44	.44	1.75	2.88	4.06	4.72	2.88	5.19
713	1.33	5.38	4.19	4.38	3.31	2.19	1.66	.53	2.13	3.91	5.19	6.09	4.00	6.59
715	1.54	6.44	5.44	5.25	4.31	2.63	2.16	.59	2.50	4.69	5.97	7.03	4.31	7.91
718	1.75	7.00	5.69	5.75	4.50	2.88	2.25	.69	2.63	4.88	6.44	7.16	4.31	8.38
721	2.06	7.75	5.94	6.38	4.69	3.19	2.34	.72	2.75	5.13	7.09	7.66	4.69	9.00
724	2.38	8.50	6.19	7.06	4.88	3.53	2.44	.75	2.81	5.75	7.69	8.19	5.09	10.00
726	2.62	9.63	6.66	8.00	5.25	4.00	2.63	.75	3.19	6.31	8.75	8.97	5.63	11.13
730	3.00	10.00	7.50	8.44	5.88	4.22	2.94	.75	3.38	6.81	9.63	10.50	6.75	11.88
732	3.25	11.19	7.66	9.50	6.13	4.75	3.06	.88	3.50	7.44	10.25	10.94	7.06	13.03
738	3.75	12.13	8.66	10.38	7.00	5.19	3.50	.94	3.75	8.38	11.38	12.09	7.75	14.44
752	5.16	16.38	10.63	14.13	8.38	7.06	4.19	1.13	4.38	10.69	14.88	14.38	9.06	18.88
760	6.00	19.00	12.00	16.50	9.50	8.25	4.75	1.25	5.25	11.75	17.75	16.00	10.00	21.25

		Low Speed Shaft				High Speed Shaft						
		U		W-Key		X		Z-Key		Approx.	Base	Fan
Size	T	+.000 -.001	V	Sq.	Lengh	+.000 -.001	Y	Sq.	Length	Weight (LBS.)	Kit No. †	Kit No.**
710	11/32	.500	1.19	1/8	5/8	.3745	.81	3/32	3/8	7	56575	—
713	11/32	.625	2.00	3/16	1	.4995	1.31	1/8	5/8	12	56577	—
715	13/32	.750	1.78	3/16	1	.6245	1.56	3/16	13/16	19	56438	—
718	13/32	.875	1.78	3/16	1	.6245	1.56	3/16	13/16	21	56585	—
721	15/32	1.000	2.09	1/4	1-1/4	.6245	1.56	3/16	13/16	26	56440	—
724	15/32	1.125	2.37	1/4	1-1/4	.7495	2.00	3/16	1	32	56591	—
726	17/32	1.125	2.62	1/4	1-15/16	.7495	2.00	3/16	1	46	56595	—
730	17/32	1.250	3.25	1/4	2-1/4	.8745	2.24	3/16	1	64	65544	—
732	17/32	1.375	3.25	5/16	2-7/16	.8745	2.31	3/16	1	81	56599	51450
738	19/32	1.625	3.50	3/8	2-1/4	.9995	2.75	1/4	1-1/4	115	56603	51451
752	25/32	2.000	4.16	1/2	2-15/16	1.2495	3.25	1/4	1-1/4	212	56607	51452
760	29/32	2.250	4.56	1/2	3-3/8	1.4995	3.88	3/8	3	260	56610	51453

* See Assemblies and Mounting Positions, Page 19.
** For Fan Kits, see Page 130.
† For Base Kits, see Page 129.

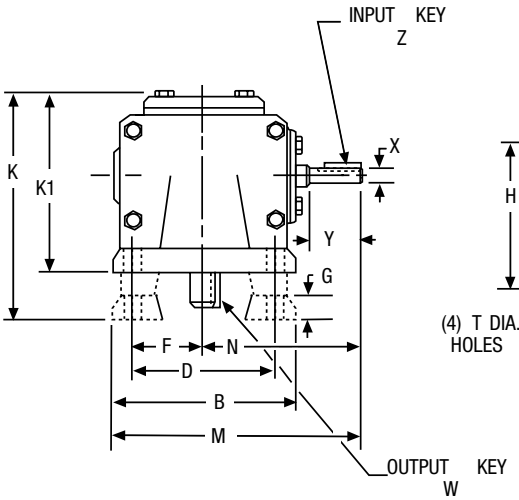
700 Series Single Reduction Non-Flanged Reducer Dimensions

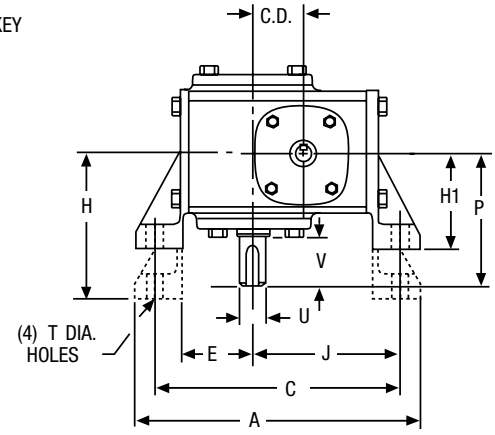
700 Series

C/D Position Vertical Base; C/E High Base; D/F Low Base

FOR ORDERING INFORMATION, see Page 16

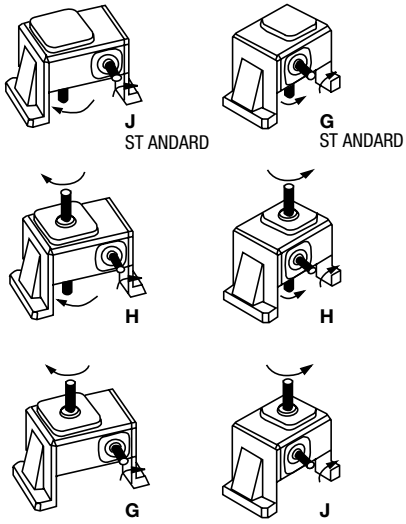
FOR RATING INFORMATION, See Pages 17, 22-33





ASSEMBLY TYPES*

C/D BASES **E/F BASES**



ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	H1	J	K	K1	M	N	P
710	1.00	6.06	3.22	5.13	2.31	1.38	1.16	.44	2.94	—	3.06	4.59	—	4.50	2.88	2.88
713	1.33	7.09	4.13	6.16	3.25	1.78	1.63	.53	3.56	2.31	3.69	5.59	4.34	6.03	3.91	4.00
715	1.54	8.03	5.16	6.97	4.00	1.97	2.00	.69	4.38	3.00	4.25	6.88	5.50	7.28	4.69	4.31
718	1.75	8.44	5.16	7.38	4.00	2.13	2.00	.69	4.38	3.00	4.50	6.88	5.53	7.63	4.88	4.31
721	2.06	9.50	6.03	8.38	4.88	2.34	2.44	.72	4.88	3.13	5.09	7.50	5.75	8.16	5.13	4.69
724	2.38	10.06	6.31	8.94	4.88	2.56	2.44	.75	5.25	3.38	5.44	7.97	6.09	8.94	5.75	5.09
726	2.62	11.69	7.38	10.13	5.75	3.00	2.88	.88	5.59	3.63	6.13	8.50	6.53	10.00	6.31	5.63
730	3.00	12.52	8.00	11.13	6.00	3.34	3.00	.94	5.88	3.94	6.75	9.15	7.18	10.88	6.88	6.75
732	3.25	13.38	9.00	11.88	6.13	3.56	3.06	.88	6.25	4.69	7.13	10.00	8.44	11.94	7.44	7.06
738	3.75	15.69	10.00	13.94	8.00	4.00	4.00	.94	7.00	5.25	8.31	11.12	9.38	13.38	8.38	7.75
752	5.16	20.56	13.13	18.00	10.00	5.44	5.00	1.13	8.63	6.38	10.56	13.38	11.13	17.25	10.69	9.06
760	6.00	23.25	14.75	20.88	11.75	6.63	5.88	1.13	9.63	7.31	12.19	14.94	12.62	19.13	11.75	10.00

		Low Speed Shaft				High Speed Shaft				High Base		Low Base		
		U		W-Key		X		Z-Key		Approx.	Base	Approx.	Base	Fan
Size	T	+.000 -.001	V	Sq.	Lengh	+.000 -.001	Y	Sq.	Length	Weight (LBS.)	Kit No. †	Weight (LBS.)	Kit No. †	Kit No.**
710	11/32	.500	1.19	1/8	5/8	.3745	.81	3/32	3/8	7	56576	—	—	—
713	11/32	.625	2.00	3/16	1	.4995	1.31	1/8	5/8	13	56578	12	56579	—
715	13/32	.750	1.78	3/16	1	.6245	1.56	3/16	13/16	21	56582	20	56583	—
718	13/32	.875	1.78	3/16	1	.6245	1.56	3/16	13/16	23	56582	22	56583	—
721	15/32	1.000	2.09	1/4	1-1/4	.6245	1.56	3/16	13/16	28	56588	25	56589	—
724	15/32	1.125	2.38	1/4	1-1/4	.7495	2.00	3/16	1	37	56592	35	56593	—
726	17/32	1.125	2.63	1/4	1-15/16	.7495	2.00	3/16	1	51	56596	49	56597	—
730	17/32	1.250	3.25	1/4	2-1/4	.8745	2.24	3/16	1	67	65545	65	65546	—
732	17/32	1.375	3.25	5/16	2-7/16	.8745	2.31	3/16	1	83	56600	81	56601	51450
738	19/32	1.625	3.50	3/8	2-1/4	.9995	2.75	1/4	1-1/4	143	56604	133	56605	51451
752	25/32	2.000	4.16	1/2	2-15/16	1.2495	3.25	1/4	1-1/4	238	56608	226	56609	51452
760	29/32	2.250	4.56	1/2	3-3/8	1.4995	3.88	3/8	3	259	56611	275	56612	51453

* See Assemblies and Mounting Positions, Page 19.
** For Fan Kits, see Page 130.
† For Base Kits, see Page 129.

700 Series Single Reduction Non-Flanged Reducer Dimensions

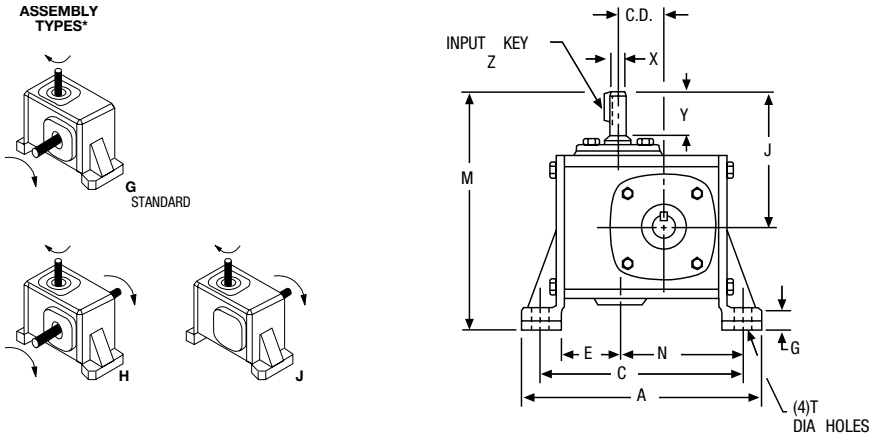
700 Series

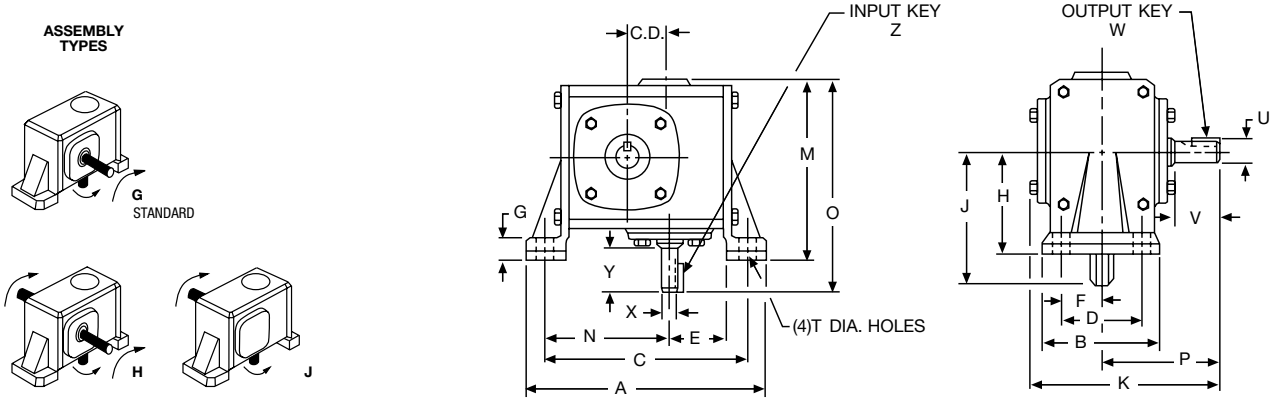
X/Y Position Vertical Base; X = Input Vertical Up, Y = Input Vertical Down

FOR ORDERING INFORMATION, see Page 16

FOR RATING INFORMATION, See Pages 15, 20-31

A





ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J	K	M X Models	M Y Models	N
713	1.33	7.28	2.91	6.41	2.00	1.70	1.00	.53	2.94	3.91	6.03	6.84	5.06	3.92
715	1.54	8.25	3.72	7.25	2.50	2.00	1.25	.69	3.50	4.69	6.84	8.19	6.06	4.38
718	1.75	8.62	3.72	7.62	2.50	2.00	1.25	.69	3.50	4.87	6.81	8.37	6.25	4.75
721	2.06	9.75	3.84	8.62	2.62	2.09	1.31	.72	3.94	5.12	7.28	9.06	6.94	5.47
724	2.38	10.31	4.12	9.19	2.87	2.12	1.44	.75	4.06	5.75	7.81	9.81	7.25	6.00
726	2.62	11.88	4.53	10.37	3.12	2.50	1.56	.87	4.75	6.31	8.53	11.06	8.44	6.75

Size	O	P	T	Low Speed Shaft U +.000 -.001	V	W-Key Sq.	W-Key Length	High Speed Shaft X +.000 -.001	Y	Z-Key Sq.	Z-Key Length	Approx. Weight (LBS.)	Base Kit No.†
713	6.03	4.00	11/32	.625	2.00	3/16	1	.4995	1.31	1/8	5/8	14	55196
715	7.25	4.31	13/32	.750	1.78	3/16	1	.6245	1.56	3/16	13/16	21	55349
718	7.63	4.31	13/32	.875	1.78	3/16	1	.6245	1.56	3/16	13/16	23	55349
721	8.13	4.69	15/32	1.000	2.09	1/4	1-1/4	.6245	1.56	3/16	13/16	28	55644
724	8.94	5.09	15/32	1.125	2.37	1/4	1-1/4	.7495	2.00	3/16	1	37	55768
726	10.00	5.62	17/32	1.125	2.62	1/4	1-15/16	.7495	2.00	3/16	1	51	55769

* See Assemblies and Mounting Positions, Page 19.

† For Base Kits, see Page 129.

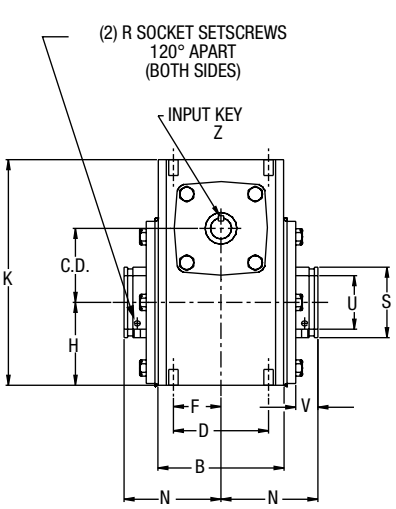
H700 Series

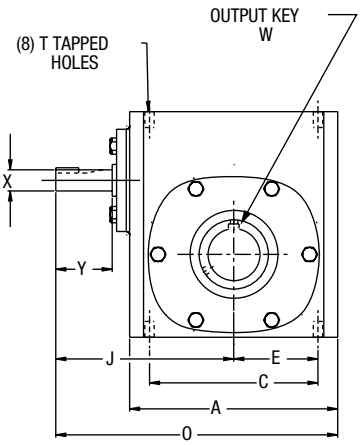
Basic Models (No Base); Bored to Size, Hollow Output Shaft

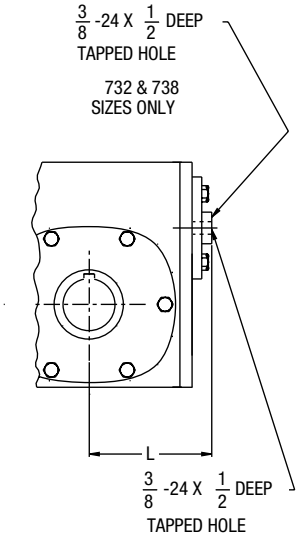
FOR ORDERING INFORMATION, see Page 16

FOR RATING INFORMATION, See Pages 15, 20-31

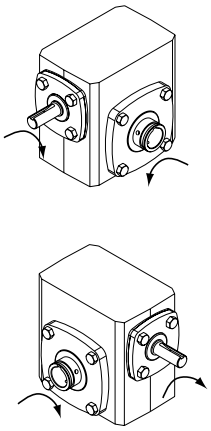
A







ASSEMBLY TYPES*



ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	H	J	K	L	N	O	R	S
713	1.33	4.25	2.88	3.25	2.00	1.63	1.00	1.72	3.91	4.66	—	2.50	6.03	#10-32	.88
715	1.54	5.13	3.69	4.19	2.75	2.09	1.38	1.91	4.69	5.38	—	3.03	7.25	#10-32	1.38
718	1.75	5.50	3.69	4.19	2.75	2.09	1.38	2.06	4.88	5.75	—	3.03	7.63	#10-32	1.38
721	2.06	6.00	3.81	5.00	2.88	2.50	1.44	2.28	5.13	6.38	—	3.22	8.13	1/4-28	1.94
724	2.38	6.38	4.06	5.00	2.88	2.50	1.44	2.50	5.75	6.94	—	3.22	8.94	1/4-28	1.94
726	2.62	7.38	4.44	6.38	3.38	3.19	1.69	2.94	6.31	8.00	—	3.44	10.00	5/16-24	2.50
730	3.00	8.12	5.25	7.00	4.00	3.50	2.00	3.25	6.88	8.88	—	4.19	10.94	5/16-24	2.88
732	3.25	9.00	5.88	7.50	4.00	3.75	2.00	3.50	7.44	9.38	4.94	4.31	11.94	5/16-24	2.88
738	3.75	10.00	6.38	8.50	4.75	4.25	2.38	3.88	8.38	10.44	5.50	4.81	13.38	5/16-24	3.25
752	5.16	13.13	7.38	11	5.81	5.5	2.91	5.31	10.69	13.75	7.19	6.12	17.25	3/1/24	4.25

Size	T		Low Speed Shaft				High Speed Shaft				Approx. Weight (LBS.)	Fan Kit No.**
	Tap Size	Depth	Max U +.0015 -.0000	V	W - Key Sq.	W - Key Length	X +.000 -.001	Y	Z - Key Sq.	Z - Key Length		
713	5/16-18	.50	.625	.68			.4995	1.31	1/8	5/8	12	—
715	5/16-18	.50	1.000	.74			.6245	1.56	3/16	13/16	19	—
718	5/16-18	.50	1.000	.74			.6245	1.56	3/16	13/16	21	—
721	3/8-16	.56	1.4375	.87	See Page		.6245	1.56	3/16	13/16	26	—
724	3/8-16	.56	1.4375	.75	128 For		.7495	2.00	3/16	1	33	—
726	3/8-16	.56	1.9375	.78	Key Information		.7495	2.00	3/16	1	45	—
730	7/16-14	.88	2.1875	1.10			.8745	2.24	3/16	1	60	—
732	7/16-14	.66	2.1875	.93			.8745	2.31	3/16	1	76	51450
738	1/2-13	.81	2.4375	1.11			.9995	2.75	1/4	1-1/4	110	51451
752	5/8-11	1	3.4375	1.37			1.2495	3.25	4-Jan	1-1/4	198	51452

* See Assemblies and Mounting Positions, Page 19.
** For Fan Kits, see Page 130.
See Page 128 for available bore sizes.
Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation.

700 Series Single Reduction Non-Flanged Reducer Dimensions

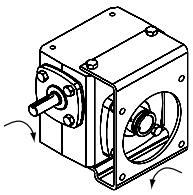
H700 Series

R/L Position Mounting Bracket; Hollow Output Shaft

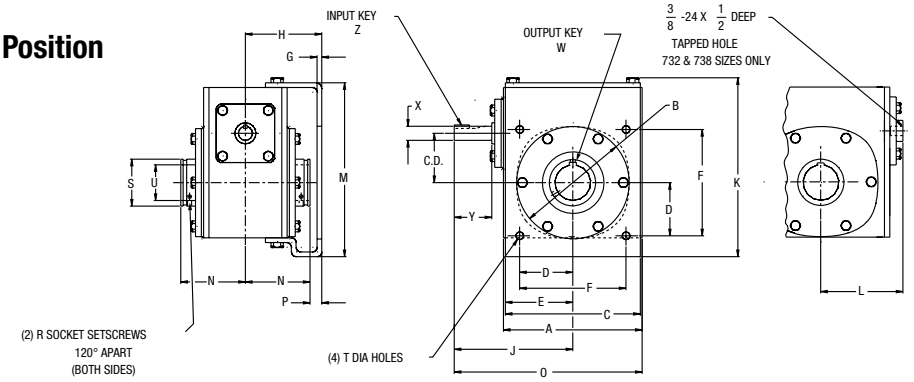
FOR ORDERING INFORMATION, see Page 16

FOR RATING INFORMATION, See Pages 17, 22-33

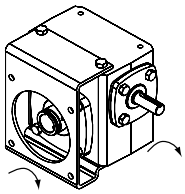
ASSEMBLY TYPES*

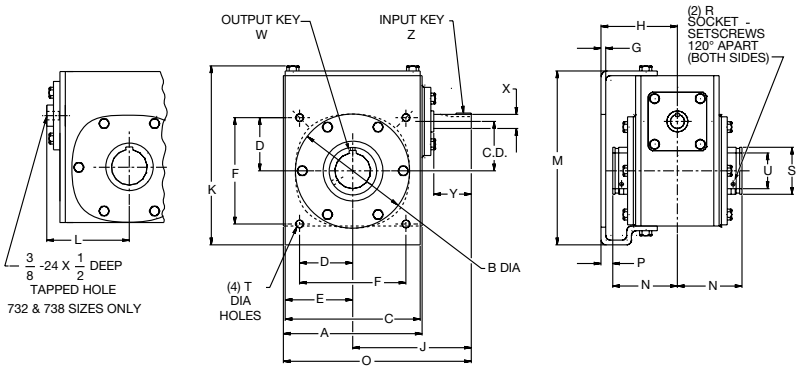


R Position



L Position





ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
713	1.33	4.25	3.62	4.25	1.77	2.12	3.54	.19	3.00	3.91	5.72	—	5.55	2.50	6.03	.50
715	1.54	5.13	3.62	4.75	1.77	2.38	3.54	.19	3.56	4.69	6.40	—	6.16	3.03	7.25	.44
718	1.75	5.50	4.06	5.00	2.08	2.41	4.16	.19	3.50	4.88	6.89	—	6.66	3.03	7.63	.47
721	2.06	6.00	4.50	5.92	2.30	2.96	4.60	.25	3.75	5.13	7.74	—	7.47	3.22	8.13	.53
724	2.38	6.38	5.00	5.75	2.65	2.88	5.30	.25	3.72	5.75	8.57	—	8.30	3.22	8.94	.50
726	2.62	7.38	6.00	7.18	2.83	3.59	5.66	.25	4.06	6.31	9.52	—	9.25	3.44	10.00	.62
730	3.00	8.12	7.00	8.00	3.18	4.00	6.36	.25	4.50	6.88	10.75	—	10.38	4.19	10.94	.31
732	3.25	9.00	7.00	8.50	3.54	4.25	7.08	.25	5.25	7.44	11.22	4.94	10.91	4.31	11.94	.94
738	3.75	10.00	8.00	9.50	4.06	4.75	8.12	.25	5.47	8.38	12.21	5.50	11.84	4.81	13.38	.66

Size	R	S	T Holes	Low Speed Shaft			High Speed Shaft				Approx. Weight (LBS.)	Fan Kit No.**
				Max U +.0015 -.0000	W-Key		X +.000 -.001	Y	Z-Key			
					Sq.	LENGTH			Sq.	Length		
713	#10-32	.88	11/32	.625			.4995	1.31	1/8	5/8	14	—
715	#10-32	1.38	11/32	1.000			.6245	1.56	3/16	13/16	22	—
718	#10-32	1.38	11/32	1.000			.6245	1.56	3/16	13/16	25	—
721	1/4-28	1.94	13/32	1.4375	See Page		.6245	1.56	3/16	13/16	29	—
724	1/4-28	1.94	13/32	1.4375	128 For		.7495	2.00	3/16	1	40	—
726	5/16-24	2.50	13/32	1.9375	Key Information		.7495	2.00	3/16	1	54	—
730	5/16-24	2.88	13/32	2.1875			.8745	2.24	3/16	1	67	—
732	5/16-24	2.88	9/16	2.1875			.8745	2.31	3/16	1	89	51450
738	3/8-24	3.25	9/16	2.4375			.9995	2.75	1/4	1-1/4	132	51451

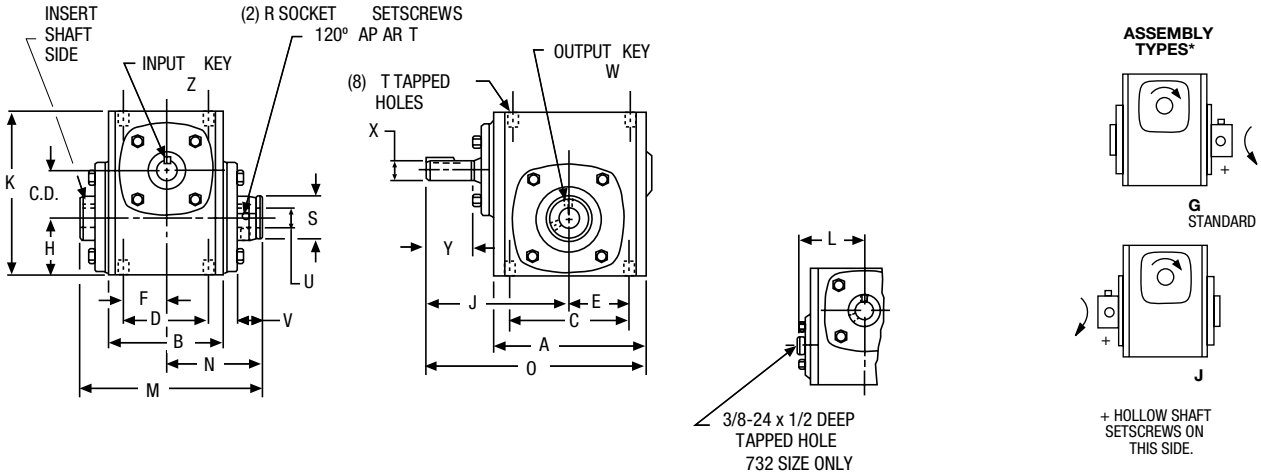
* See Assemblies and Mounting Positions, Page 19.
** For Fan Kits, see Page 130. See Page 128 for available bore sizes.
Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation.

S700 Series

Basic Models (No Base); Hollow Output Shaft

FOR ADDITIONAL SIZES, See the H Series Page 49
FOR ORDERING INFORMATION, see Page 16
FOR RATING INFORMATION, See Pages 17, 22-33

A



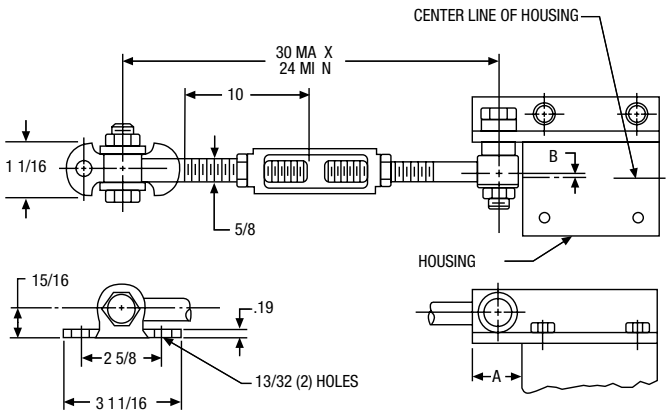
ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	H	J	K	M	N	O	R	S
718	1.75	5.50	3.69	4.19	2.75	2.09	1.38	2.06	4.88	5.75	5.69	3.09	7.63	#10-32	1.38
721	2.06	6.00	3.81	5.00	2.88	2.50	1.44	2.28	5.13	6.38	5.88	3.22	8.13	1/4-28	1.50
726	2.62	7.38	4.44	6.38	3.38	3.19	1.69	2.94	6.31	8.00	6.47	3.50	10.00	1/4-28	2.16
732	3.25	9.00	5.88	7.50	4.00	3.75	2.00	3.50	7.44	9.38	8.06	4.38	11.94	5/16-24	2.56

Size	T		Low Speed Shaft				High Speed Shaft				Approx. Weight (LBS.)	Fan Kit No.**
	Tap Size	Depth	U †† +.0015 -.001	V	W - Key Sq.	W - Key Length	X +.000 -.001	Y	Z - Key Sq.	Z - Key Length		
718	5/16-18	.50	1.000	.78	See Page		.6245	1.56	3/16	13/16	19	—
721	3/8-16	.56	1.125	.88	128 For		.6245	1.56	3/16	13/16	23	—
726	3/8-16	.56	1.4375	.84	Key Information		.7495	2.00	3/16	1	40	—
732	7/16-14	.66	1.9375	1.00			.8745	2.31	3/16	1	72	51450

* See Assemblies and mounting Positions, Page 19. Assemblies define output (slow speed) shaft and mounted surfaces,viewed from end of input shaft. Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation.
** For Fan Kits, see Page 130.
††For additional Output Bore Diameters, refer to the H Series, Page 128.

Reaction Rod Kits



ALL DIMENSIONS IN INCHES

Size	A	B	Catalog Number	Kit No.
S718	1.09	.09	X718-76K	69692
S721	1.25	.03	X721-76K	69693
S726	1.25	.22	X726-76K	69694
S732	1.50	.53	X732-76K	69695

All hardware shown is included in the kits.

700 Series Single Reduction Non-Flanged Reducer Dimensions

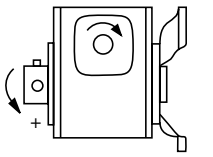
S700 Series

V/W Position Mounting Flange; Hollow Output Shaft

FOR ADDITIONAL SIZES, See the H Series Page 49
FOR ORDERING INFORMATION, see Page 16
FOR RATING INFORMATION, See Pages 17, 22-33

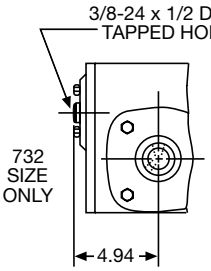
A

ASSEMBLY TYPES*

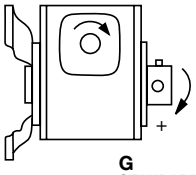


J STANDARD

+ HOLLOW SHAFT SETSCREWS ON THIS SIDE.



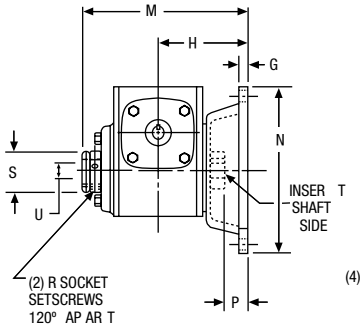
ASSEMBLY TYPES*

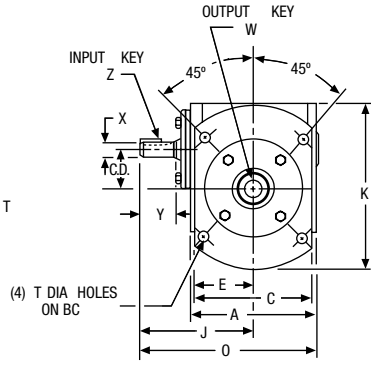


G STANDARD

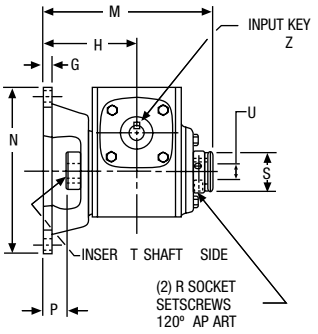
+ HOLLOW SHAFT SETSCREWS ON THIS SIDE

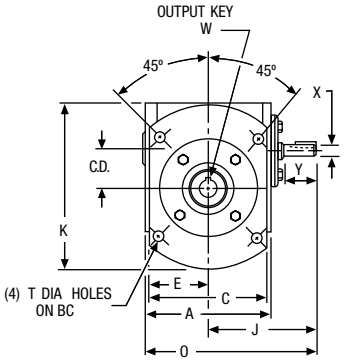
V Position





W Position





ALL DIMENSIONS IN INCHES

Size	C.D.	A	BC	C	E	G	H	J	K	M	N	O	P
718	1.75	5.50	5.88	4.88	2.44	.38	3.50	4.88	7.06	6.59	6.75	7.63	.91
721	2.06	6.00	6.50	5.75	2.88	.38	3.75	5.13	7.28	6.97	7.38	8.13	1.09
726	2.62	7.38	8.00	7.75	3.88	.38	4.06	6.31	9.50	7.56	8.88	10.19	1.09
732	3.25	9.00	10.00	9.00	4.50	.50	5.25	7.44	11.38	9.63	11.00	11.94	1.56

Size	R	S	T Holes	Low Speed Shaft			High Speed Shaft				Approx. Weight (LBS.)	Fan Kit No.**
				U +.0015 -.0000	W-Key		X +.000 -.001	Y	Z-Key			
					Sq.	LENGTH			Sq.	Length		
718	#10-32	1.38	11/32	1.000	See Page		.6245	1.56	3/16	13/16	24	—
721	1/4-28	1.50	13/32	1.125	128 For		.6245	1.56	3/16	13/16	28	—
726	1/4-28	2.16	13/32	1.4375	Key Information		.7495	2.00	3/16	1	51	—
732	5/16-24	2.56	9/16	1.9375			.8745	2.31	3/16	1	85	51450

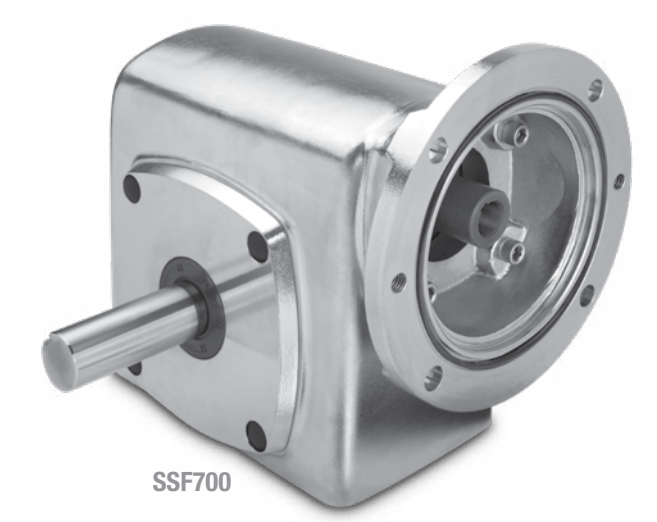
* Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounted surfaces, viewed from end of input shaft. Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation. See Assemblies and Mounting Positions, Page 19.

** For Fan Kits, see Page 130.

SSF700/SSQC/SSHF700 Series

Basic Models (No Base)

FOR ORDERING INFORMATION, see Page 16
FOR RATING INFORMATION, See Pages 17, 22-33



SSF700



SSHF700



SSHQC700

APPLICATIONS:

- Washdown
- Food Processing
- Chemical Processing
- Pharmaceutical Industry

STANDARD FEATURES:

- The original Domed Crown™ Design
- NSF International certified
- Housings, bearing carriers, and flanges are made from 316 cast stainless steel to withstand hostile environments
- 303 stainless steel output shaft
- All stainless steel hardware
- Motor Flange “O” ring sealed
- Flange features two jack screw holes for easy motor removal
- Double lip shaft seals for superior performance in hostile environments
- This is a specially designed internal pressure equalization system which allows the gearbox to operate in all environments without the use of conventional pressure vents
- Lubricated for life with Klubersynth UH1 6-460 synthetic oil for wide temperature ranges, maximum efficiency and long maintenance-free operation
- Oil filled for all mounting positions
- Laser marked nameplate
- Optional high pressure/wash down seals available

Ordering Information

A

Single Reduction Worm Speed Reducer

Example: SSHF732B-30KT-B7-HS1-P20-KUTFSS-3

SS – Stainless Steel Material

H – Style
- Blank – Solid Output Shaft
- H – *BostMount* Hollow Output

F – Quill Style Motor Flange
- F – Quill Style Motor Flange
- QC – Quick Connect Motor Flange (Close Coupled)

7 – 700 Series

32 – Center Distance (Inches)
- 13 – 1.33
- 15 – 1.54
- 18 – 1.75
- 21 – 2.06
- 24 – 2.38
- 26 – 2.62
- 32 – 3.25

B – Base
- Blank – No Base
- B – Horizontal Base
- V – Output Flange - Right Mount
- W – Output Flange - Left Mount

30 – Reduction Ratio To 1
5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100

K – Lubrication
- Blank – No Lubrication
- K – Klubersynth UH1-6-460 H1 Food-Grade

Double Reduction Worm - Planetary Speed Reducer

Example: SSHFWP732B-300KT-B5-HS1-P20

SS – Stainless Steel Material

H – Style
- Blank – Solid Output Shaft
- H – *BostMount* Hollow Output

F – Quill Style Motor Flange
- F – Quill Style Motor Flange
- QC – Quick Connect Motor Flange (Close Coupled)

WP – Planetary Multiplier

7 – 700 Series

32 – Center Distance
- 13 – 1.33
- 15 – 1.54
- 18 – 1.75
- 21 – 2.06
- 24 – 2.38
- 26 – 2.62
- 32 – 3.25

B – Base
- Blank – No Base
- B – Horizontal Base
- V – Output Flange - Right Mount
- W – Output Flange - Left Mount

300 – Reduction Ratio To 1
75, 100, 150, 200, 250, 300, 400, 500

Double Reduction Worm - Worm Speed Reducer

Example: SSHFWB732B-3600KT-B5-LS1-P20

SS – Stainless Steel Material

H – Style
- Blank – Solid Output Shaft
- H – *BostMount* Hollow Output

F – Quill Style Motor Flange
- F – Quill Style Motor Flange
- QC – Quick Connect Motor Flange (Close Coupled)

WB – Input & Output Style
- WB – Double Reduction Parallel Shafts
- WD – Double Reduction Right Angle Shafts

7 – 700 Series

32 – Center Distance (Inches)
- 13 – 1.33
- 18 – 1.75
- 21 – 2.06
- 26 – 2.62
- 32 – 3.25

B – Base
- Blank – No Base
- B – Horizontal Base
- V – Output Flange - Right Mount
- W – Output Flange - Left Mount

3600 – Reduction Ratio To 1
100, 150, 200, 300, 400, 600, 900, 1200, 1800, 2000, 2400, 3000, 3600

Ordering Information

T – B7 – HS 1 – P20 – KUTFSS – 3

Oil Seal
Blank– Standard Seal
T– Two Standard Input Seals
C– High pressure washdown output seals and double input seals
IP69K

NEMA Motor Mounting

BORE CODE	NEMA MOUNTING	INPUT BORE	KEYWAY SIZES
B5	56C	.625	3/16 x 3/32
B7	140TC/180C	.875	3/16 x 3/32
B9	180TC/210C	1.125	1/4 x 1/8

Output Shaft
303 Stainless Steel (when facing input)
GS – Stainless Output Projection - Left
HS – Stainless Double Output Projection
JS – Stainless Output Projection - Right

Mounting Positions
1 – Standard Mounting (Worm Over)
2-6 – Refer to Mounting Positions on Page 56

***BostMount* Output Bore Code**
Blank -Solid Output Shaft Specified in 1/16" increments.
See Table 1 on Page 56
Ex: 1-1/4" = P20

Motor
C-Face Motor
Blank – No Motor
See Table 2 on Page 56

Motor Conduit Box Orientation
(When looking at fan end of motor and gearbox is in mounting position #1)
0 – 12 O'clock
3 – 3 O'clock (standard for G & H shaft assemblies)
6 – 6 O'clock
9 – 9 O'clock (standard for J shaft assemblies)

K T – B5 – HS 1 – P20 – – –

Lubrication
Blank – No Lubrication
K – Klubersynth UH1-6-460 H1 Food-Grade

Oil Seal
Blank– Standard Seal
T– Two Standard Input Seals
C– High pressure washdown output seals and double input seals
IP69K

NEMA Motor Mounting

BORE CODE	NEMA MOUNTING	INPUT BORE	KEYWAY SIZES
B5	56C	.625	3/16 x 3/32

Output Shaft
303 Stainless Steel (when facing input)
GS – Stainless Ouput Projection - Left
HS – Stainless Double Output Projection
JS – Stainless Output Projection - Right

Mounting Positions
1 – Standard Mounting (Worm Over)
2-6 – Refer to Mounting Positions on Page 56

***BostMount* Output Bore Code**
Blank -Solid Output Shaft Specified in 1/16" increments.
See Table 1 on Page 56
Ex: 1-1/4" = P20

Motor
C-Face Motor
Blank – No Motor
See Table 2 on Page 56

Motor Conduit Box Orientation
(When looking at fan end of motor and gearbox is in mounting position #1)
0 – 12 O'clock
3 – 3 O'clock (standard for G & H shaft assemblies)
6 – 6 O'clock
9 – 9 O'clock (standard for J shaft assemblies)

K T – B5 – LS 1 – P20 – – –

Lubrication
Blank – No Lubrication Provided
K – Klubersynth UH1-6-460 H1 Food-Grade

Oil Seal
Blank– Standard Seal
T– Two Standard Input Seals
C– High pressure washdown output seals and double input seals
IP69K

NEMA Motor Mounting

Bore Code	NEMA Mounting	Input Bore	Keyway Sizes
B5	56C	.625	3/16 x 3/32
B7	140TC/180C	.875	3/16 x 3/32

Output Shaft
303 Stainless Steel (when facing input of base housing)
MS – Stainless Ouput Projection - Left
LS – Stainless Double Output Projection
KS – Stainless Output Projection - Right

Mounting Positions
1 – Standard Mounting (Worm Over)
2-6 – Refer to Mounting Positions on Page 56

***BostMount* Output Bore Code**
Blank -Solid Output Shaft Specified in 1/16" increments.
See Table 1 on Page 56
Ex: 1-1/4" = P20

Motor
C-Face Motor
Blank – No Motor
See Table 2 on Page 56

Motor Conduit Box Orientation
(When looking at fan end of motor and gearbox is in mounting position #1)
0 – 12 O'clock
3 – 3 O'clock (standard for M & L shaft assemblies)
6 – 6 O'clock
9 – 9 O'clock (standard for K shaft assemblies)

Ordering Information

A

Horizontal Base Kits for SS700 Series

(If ordered separately)

Size	Kit	
713	J00877	XSS713-11H-BK
715	J00878	XSS715-11H-BK
718	J00304	XSS718-11H-BK
721	J00305	XSS721-11H-BK
724	J00879	XSS724-11H-BK
726	J00306	XSS726-11H-BK
732	J00307	XSS732-11H-BK

Kit includes (2) feet, (4) attaching bolts and (4) hardware covers.

Replacement Hardware Covers

Size	Housing Oil Plugs	Bearing Carrier	Mounting Feet	Output Flange	Motor Flange B5/B7 (56C/140TC)	Motor Flange B9 (180TC)
713	J00195	N/A	N/A	J00195	J00195	J00195 & J00196
715	J00195	J00195	J00196	J00195	J00195	J00195 & J00196
718	J00195	J00195	J00196	J00195	J00195	J00195 & J00196
721	J00195	J00195	J00196	J00195	J00195	J00195 & J00196
724	J00195	J00195	J00196	J00195	J00195	J00195 & J00196
726	J00195	J00195	J00196	J00195	J00195	J00195 & J00196
732	J00195	J00195	J00196	J00196	J00195	J00195 & J00196

J00195 has nominal O.D of 0.605"
J00196 has nominal O.D. of 0.812"
Material: Stainless Steel disk (metal detectable) with over-molded rubber

Table 1: Hollow Output Shaft Bore Codes

Fraction Size	Output Bore Code	713	715	718	721	724	726	732	Decimal Size*	Key Size†
5/8	P10	S							.6250	.187 x .125 x 1.00
3/4	P12	•	•	•	•	•			.7500	.187 x .156 x 1.00
7/8	P14	•	•	•	•	•			.8750	.187 x .156 x 1.00
15/16	P15	•	•	•	•	•	•		.9375	.25 x .218 x 1.37
1	P16	S	S	S	S	S	•		1.0000	.25 x .218 x 1.37
1-1/8	P18				•	•	•		1.1250	.25 x .218 x 1.37
1-3/16	P19				S	S	•	•	1.1875	.25 x .218 x 1.37
1-1/4	P20				S	S	S	•	1.2500	.25 x .218 x 1.37
1-7/16	P23				S	S	S	S	1.4375	.375 x .312 x 1.75
1-1/2	P24						S	S	1.5000	.375 x .312 x 1.75
1-15/16	P31						•	S	1.9375	.50 x .375 x 2.00
2	P32							•	2.0000	.50 x .375 x 2.00
2 3/16	P35							•	2.1875	.50 x .375 x 2.00

*Bore tolerance +.0015 / – .0000
S Standard Bore – Included in Express Program
• Optional Bore
† Rectangular key is provided with reducer to fit hollow shaft. Drive shaft requires standard width and depth keyway.
Note: For all other bore sizes, contact factory.

Table 2: Stainless Steel AC Motors

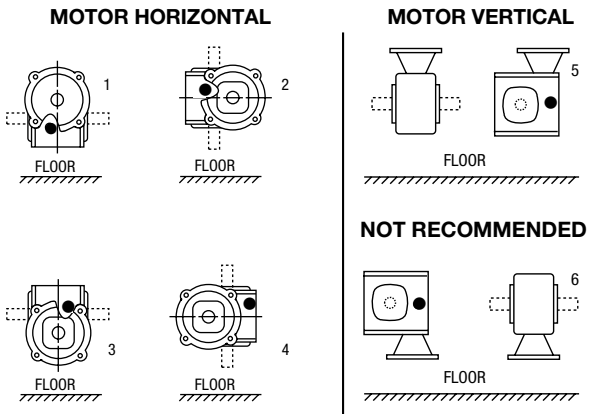
Part #	HP	Type	Frame Size
FUT-SS	0.5	TENV	56C
GUT-SS	0.75	TENV	56C
HUT5/8-SS	1.0	TENV	56C
HUTF5/8-SS	1.0	TEFC	56C
HUT-SS	1.0	TENV	140TC
HUTF-SS	1.0	TEFC	140TC
JUTF-SS	1.5	TEFC	140TC
KUTF-SS	2.0	TEFC	140TC
LUTF-SS	3.0	TEFC	180TC
MUTF-SS	5.0	TEFC	180TC

TENV = Totally enclosed, non-ventilated
TEFC = Totally enclosed, fan-cooled

Mounting Positions & Lubrication

Oil Levels For Typical Mounting Positions

(Examples shown for single-reduction models only)



● Indicates proper oil level.

NOTE: Double input seals are required for all positions except #1 and #5.

Enclosed Worm Gear Reducers Lubricant Available from Boston Gear

Ambient (Room) Temp.	Recommended Oil (or equivalent)	Viscosity Range SUS @ 100°F	ISO Viscosity Grade No.	Klubersynth UH1 6-460 Qt. Part No.
-20° to 225°F** (-29° to 107°C)	Klubersynth* UH1 6-460 Synthetic H1 Food Grade Oil	1950/2500	460	65159

* Synthetic recommendation is exclusively Klubersynth UH1 6-460, other lubricants will reduce performance ratings.
** The Klubersynth UH1 6-460 lubricant will perform at temperatures considerably higher than 225°F. However, the factory should always be consulted prior to operating at higher temperatures, as damage may occur to oil seals and other components.

Oil Capacity in Fluid Ounces

(SS700 Units Only)

Unit Size	Positions				
	1	2	3	4	5 & 6
713	3.2	3.2	4.8	3.2	3.2
715	11.2	13.6	17.6	13.6	13.6
718	14.4	17.6	20.8	17.6	17.6
721	17.6	20.8	22.4	20.8	20.8
724	21.0	22.5	25.5	22.5	22.5
726	37.0	37.0	41.5	37.0	37.0
732	81.5	85.0	93.0	85.0	85.0

Double reduction stainless gearboxes require the primary and secondary boxes to be filled independently to their respective mounting position.

Ratios and Performance

Single Reduction

Series Size			713			715			718			721			724			726			732		
				Output			Output			Output			Output			Output			Output			Output		
	Input	Output	Input		Torque	Input		Torque	Input		Torque	Input		Torque	Input		Torque	Input		Torque	Input		Torque
Ratio	RPM	RPM	HP	HP	(in-lbs)	HP	HP	(in-lbs)	HP	HP	(in-lbs)	HP	HP	(in-lbs)	HP	HP	(in-lbs)	HP	HP	(in-lbs)	HP	HP	(in-lbs)
5	1750	350	1.39	1.31	235	1.72	1.62	291	2.55	2.40	432	3.66	3.44	620	4.94	4.65	838	6.11	5.74	1034	10.05	9.54	1716
	1150	230	0.84	0.73	200	1.15	1.04	285	1.42	1.28	350	2.33	2.10	575	3.05	2.74	750	4.05	3.64	1000	8.43	7.91	2165
	690	138	0.50	0.45	205	0.80	0.72	330	0.97	0.87	400	1.64	1.47	670	2.25	2.01	920	3.04	2.74	1250	6.53	6.02	2749
	100	20	0.09	0.08	240	0.14	0.12	370	0.17	0.14	460	0.30	0.26	820	0.43	0.38	1200	0.58	0.51	1600	1.38	1.19	3735
10	1750	175	0.86	0.78	281	1.20	1.10	397	1.61	1.49	536	2.34	2.19	789	3.18	2.97	1069	3.94	3.74	1345	6.22	5.85	2106
	1150	115	0.51	0.44	243	0.73	0.64	350	0.98	0.87	480	1.49	1.32	725	2.09	1.87	1025	2.82	2.54	1390	4.41	3.92	2150
	690	69	0.33	0.29	266	0.47	0.42	384	0.66	0.58	534	1.00	0.89	814	1.46	1.31	1200	1.97	1.75	1600	3.17	2.85	2600
	100	10	0.06	0.05	296	0.09	0.07	432	0.12	0.10	610	0.19	0.15	968	0.27	0.23	1430	0.37	0.31	1960	0.62	0.52	3300
15	1750	116.7	0.66	0.58	305	0.91	0.79	428	1.13	1.02	552	1.72	1.56	840	2.34	2.15	1159	2.95	2.71	1465	4.65	4.34	2344
	1150	76.7	0.37	0.32	262	0.53	0.46	376	0.67	0.57	472	1.06	0.91	752	1.51	1.29	1060	2.01	1.73	1425	3.15	2.74	2250
	690	46	0.26	0.21	288	0.36	0.30	415	0.46	0.39	534	0.72	0.61	832	1.05	0.90	1239	1.41	1.22	1675	2.35	2.04	2800
	100	6.7	0.05	0.03	322	0.07	0.05	468	0.09	0.06	597	0.13	0.10	968	0.19	0.15	1463	0.28	0.22	2057	0.48	0.39	3700
20	1750	87.5	0.52	0.43	308	0.72	0.60	435	0.97	0.82	590	1.40	1.24	892	1.95	1.71	1233	2.34	2.06	1483	3.71	3.35	2413
	1150	57.5	0.29	0.24	265	0.43	0.35	380	0.58	0.48	525	0.86	0.72	782	1.27	1.06	1160	1.63	1.36	1500	2.77	2.37	2600
	690	34.5	0.19	0.16	286	0.28	0.23	420	0.38	0.32	580	0.57	0.48	875	0.83	0.70	1280	1.11	0.94	1725	1.99	1.70	3100
	100	5	0.04	0.03	330	0.06	0.04	485	0.08	0.06	690	0.11	0.08	1018	0.17	0.12	1550	0.20	0.16	2050	0.41	0.30	3846
25	1750	70	0.43	0.34	307	0.60	0.49	437	0.76	0.64	574	1.16	0.97	875	1.55	1.33	1199	1.94	1.68	1514	3.08	2.71	2443
	1150	46	0.24	0.19	260	0.35	0.27	375	0.48	0.36	500	0.72	0.58	790	1.03	0.84	1150	1.31	1.11	1525	2.29	1.90	2600
	690	27.6	0.15	0.12	280	0.22	0.18	410	0.30	0.24	540	0.47	0.38	875	0.69	0.56	1280	0.93	0.77	1750	1.51	1.27	2900
	100	4	0.03	0.02	310	0.04	0.03	451	0.06	0.04	660	0.10	0.07	975	0.14	0.10	1500	0.18	0.13	2075	0.31	0.22	3500
30	1750	58.3	0.39	0.29	311	0.54	0.41	446	0.65	0.53	573	0.99	0.81	871	1.33	1.11	1200	1.68	1.41	1521	2.64	2.27	2456
	1150	38.3	0.21	0.16	270	0.31	0.23	388	0.40	0.32	530	0.62	0.48	795	0.89	0.70	1170	1.20	0.96	1575	2.80	2.23	2675
	690	23	0.14	0.11	300	0.20	0.17	460	0.29	0.22	600	0.41	0.32	880	0.60	0.47	1300	0.81	0.65	1790	1.41	1.16	3200
	100	3.3	0.03	0.02	340	0.04	0.03	496	0.06	0.04	710	0.09	0.06	1050	0.12	0.08	1500	0.16	0.11	2100	0.30	0.21	4000
40	1750	43.8	0.31	0.21	307	0.43	0.31	441	0.57	0.42	609	0.81	0.61	876	1.08	0.84	1206	1.33	1.05	1512	2.10	1.70	2444
	1150	28.8	0.18	0.12	265	0.24	0.17	380	0.33	0.24	525	0.49	0.36	785	0.70	0.53	1160	0.89	0.68	1500	1.52	1.19	2600
	690	17.3	0.10	0.08	286	0.15	0.11	420	0.22	0.16	580	0.33	0.24	875	0.46	0.35	1280	0.61	0.47	1725	1.08	0.85	3100
	100	2.5	0.03	0.01	330	0.04	0.02	485	0.05	0.03	690	0.07	0.04	1018	0.11	0.06	1550	0.14	0.08	2050	0.25	0.15	3846
50	1750	35	0.25	0.17	297	0.35	0.24	429	0.44	0.32	573	0.66	0.48	857	0.87	0.65	1177	1.08	0.82	1484	1.70	1.33	2403
	1150	23	0.12	0.09	248	0.18	0.13	360	0.24	0.17	470	0.38	0.27	750	0.56	0.40	1100	0.75	0.54	1482	1.21	0.89	2450
	690	13.8	0.08	0.06	265	0.12	0.09	390	0.17	0.12	520	0.26	0.18	840	0.37	0.26	1225	0.51	0.37	1675	0.87	0.61	2800
	100	2	0.02	0.01	300	0.03	0.01	440	0.04	0.02	590	0.06	0.03	970	0.08	0.05	1425	0.11	0.06	1975	0.19	0.10	3325
60	1750	29.2	0.22	0.13	271	0.28	0.18	399	0.35	0.24	527	0.55	0.38	826	0.73	0.52	1128	0.89	0.64	1385	1.40	1.06	2281
	1150	19.2	0.17	0.09	201	0.16	0.10	312	0.21	0.13	440	0.34	0.22	730	0.49	0.32	1040	0.64	0.42	1390	1.05	0.70	2300
	690	11.5	0.10	0.05	253	0.11	0.06	338	0.14	0.08	480	0.23	0.15	805	0.33	0.21	1154	0.44	0.29	1570	0.71	0.48	2650
	100	1.7	0.02	0.01	285	0.022	0.01	371	0.03	0.01	530	0.06	0.03	930	0.07	0.04	1330	0.10	0.05	1840	0.16	0.08	3100
80	1750	21.9	0.15	0.08	222	0.21	0.11	318	0.23	0.13	375	0.38	0.22	634	-	-	-	0.76	0.38	1100	0.95	0.62	1795
	1150	14.4	0.12	0.06	246	0.17	0.08	358	0.16	0.09	390	0.31	0.17	734	-	-	-	0.47	0.29	1252	0.81	0.50	2171
	690	8.6	0.09	0.04	266	0.12	0.05	392	0.10	0.05	350	0.23	0.11	819	-	-	-	0.35	0.18	1340	0.61	0.34	2512
	100	1.3	0.02	0.01	293	0.03	0.01	440	0.02	0.01	470	0.05	0.02	942	-	-	-	0.07	0.03	1600	0.14	0.06	3030
100	1750	17.5	0.08	0.04	138	0.15	0.07	251	0.17	0.09	323	0.27	0.14	503	-	-	-	0.39	0.21	757	0.65	0.39	1414
	1150	11.5	0.07	0.028	152	0.12	0.05	283	0.14	0.07	360	0.22	0.11	580	-	-	-	0.34	0.17	913	0.56	0.31	1711
	690	6.9	0.05	0.02	164	0.09	0.03	309	0.10	0.04	391	0.16	0.07	646	-	-	-	0.26	0.12	1054	0.43	0.22	1980
	100	1	0.01	0.00	180	0.02	0.01	347	0.02	0.01	435	0.04	0.01	744	-	-	-	0.06	0.02	1267	0.10	0.04	2387
Overhung Load*			200 lbs			300 lbs			500 lbs			700 lbs.			900 lbs			1000 lbs			1300 lbs		
Output Shaft Thrust Load			300 lbs			400 lbs			500 lbs			700 lbs			800 lbs			900 lbs			1100 lbs		

Ratings shown reflect maximum gear capacity based on AGMA standards (Service Factor = 1.0) with Klubersynth UH1 6-460.
*Overhung Load is at centerline of output shaft projection and with NO THRUST Load.
Note: For input speeds above 1750 RPM, do NOT exceed maximum listed input horsepower.

Ratios and Performance

Worm-Planetary Double Reduction (WP)

Series Size			SS_WP713			SS_WP715			SS_WP718			SS_WP721			SS_WP724			SS_WP726			SS_WP732		
Ratio	Input RPM	Output RPM	Input HP	Output		Input HP	Output		Input HP	Output		Input HP	Output		Input HP	Output		Input HP	Output		Input HP	Output	
				HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)
75	1750	23.3	0.15	0.11	293	0.24	0.16	446	0.27	0.21	570	0.44	0.34	910	0.66	0.51	1367	0.75	0.57	1542	0.75	0.57	1542
100	1750	17.5	0.13	0.09	311	0.19	0.13	457	0.25	0.18	643	0.38	0.27	957	0.56	0.40	1435	0.74	0.53	1912	0.75	0.54	2072
150	1750	11.7	0.10	0.06	300	0.16	0.09	509	0.18	0.12	663	0.26	0.18	978	0.40	0.26	1415	0.53	0.36	1969	0.75	0.51	2747
200	1750	8.8	0.08	0.04	309	0.13	0.07	520	0.14	0.09	643	0.20	0.13	957	0.35	0.20	1435	0.42	0.27	1912	0.75	0.49	3509
250	1750	7	0.07	0.03	312	0.11	0.06	505	0.10	0.06	560	0.16	0.10	915	0.27	0.15	1340	0.33	0.21	1848	0.54	0.34	3103
300	1750	5.8	0.06	0.03	273	0.09	0.04	477	0.09	0.05	510	0.15	0.08	877	0.24	0.12	1255	0.30	0.16	1726	0.50	0.27	2909
400	1750	4.4	0.05	0.02	251	0.08	0.03	419	0.07	0.03	413	0.13	0.06	890	-	-	-	0.22	0.10	1490	0.44	0.20	2811
500	1750	3.5	0.03	0.01	197	0.05	0.02	330	0.05	0.02	416	0.09	0.04	702	-	-	-	0.16	0.07	1177	0.28	0.12	2215
Overhung Load*			200 lbs			300 lbs			500 lbs			700 lbs			900 lbs			1000 lbs			1300 lbs		
Output Shaft Thrust Load			300 lbs			400 lbs			500 lbs			700 lbs			800 lbs			900 lbs			1100 lbs		

Stand-Alone Planetary			SSFSP5 and SSFSP5A		
Ratio	Input RPM	Output RPM	Input HP	Output	
				HP	Torque (in-lbs)
5	1750	350	0.75	0.69	124

Ratings shown reflect maximum gear capacity based on AGMA standards (Service Factor = 1.0) with Klubersynth UH1 6-460.
Worm-Planetary and Stand-Alone Planetary gearing is not recommended for use in applications with repetitive vibrational or impact loading.
*Overhung Load is at centerline of output shaft projection and with NO THRUST Load.
Note: For input speeds above 1750 RPM, do NOT exceed maximum listed input horsepower.

Worm-Worm Double Reduction (WB & WD)

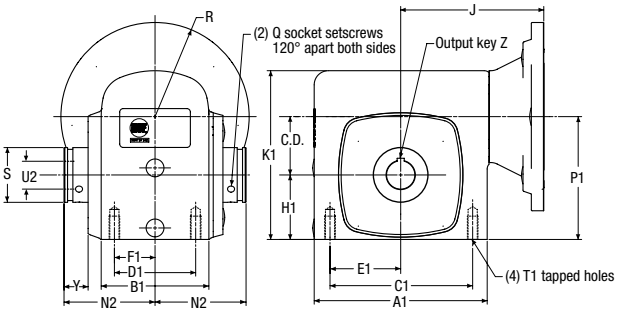
Series Size			SS_WB/WD713			SS_WB/WD718			SS_WB/WD721			SS_WB/WD726			SS_WB/WD732		
Ratio	Input RPM	Output RPM	Input HP	Output		Input HP	Output		Input HP	Output		Input HP	Output		Input HP	Output	
				HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)
100	1750	17.5	0.16	0.08	275	0.23	0.16	570	0.41	0.25	910	0.75	0.50	1785	1.33	0.96	3450
150	1750	11.7	0.13	0.05	280	0.23	0.11	580	0.30	0.17	940	0.56	0.34	1840	1.00	0.67	3600
200	1750	8.8	0.12	0.05	320	0.19	0.09	660	0.25	0.14	990	0.47	0.26	1875	0.81	0.53	3800
300	1750	5.8	0.10	0.03	335	0.16	0.06	690	0.20	0.09	1025	0.37	0.18	1950	0.61	0.36	3950
400	1750	4.4	0.09	0.02	330	0.12	0.05	690	0.17	0.02	1025	0.31	0.14	1950	0.48	0.27	3900
600	1750	2.9	0.08	0.02	340	0.10	0.03	710	0.13	0.05	1025	0.25	0.09	2000	0.36	0.18	4025
900	1750	1.9	0.07	0.01	340	0.08	0.02	710	0.11	0.03	1050	0.21	0.06	2000	0.28	0.12	4025
1200	1750	1.5	0.07	0.01	330	0.07	0.02	690	0.10	0.02	1025	0.19	0.05	1950	0.23	0.09	3900
1800	1750	1	-	-	-	-	-	-	0.08	0.01	900	0.16	0.03	1775	0.19	0.06	3750
2000	1750	0.9	-	-	-	0.052	0.008	590	-	-	-	0.16	0.03	1940	0.22	0.05	3880
2400	1750	0.7	-	-	-	-	-	-	0.05	0.01	900	0.15	0.02	1864	0.17	0.04	3143
3000	1750	0.6	-	-	-	-	-	-	-	-	-	0.14	0.02	1800	0.15	0.04	3750
3600	1750	0.5	-	-	-	-	-	-	-	-	-	0.13	0.01	1865	0.14	0.02	3154
Overhung Load*			200 lbs.			500 lbs.			700 lbs.			1000 lbs.			1300 lbs.		
Output Shaft Thrust Load			300 lbs.			500 lbs.			700 lbs.			900 lbs.			1100 lbs.		

Ratings shown reflect maximum gear capacity based on AGMA standards (Service Factor = 1.0) with Klubersynth UH1 6-460.
*Overhung Load is at centerline of output shaft projection and with NO THRUST Load.
Note: For input speeds above 1750 RPM, do NOT exceed maximum listed input horsepower.

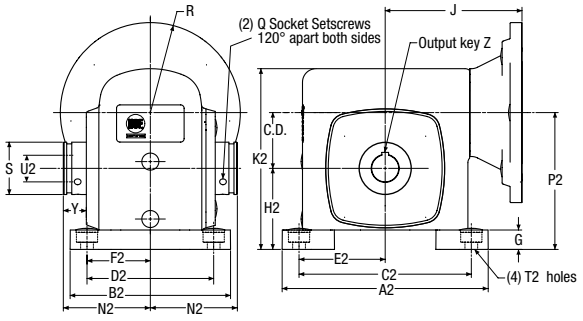
Dimensions

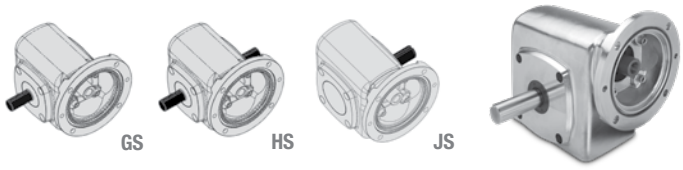


SSHF700 & SSHQC700 Hollow Shaft without Base

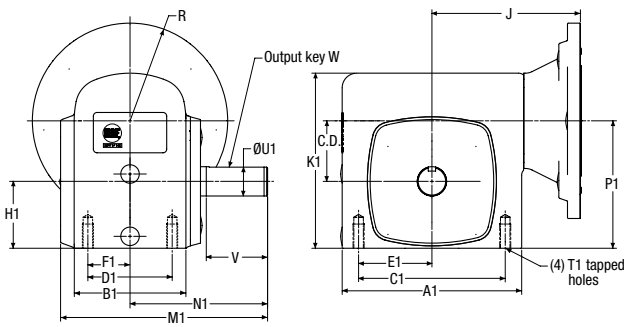


SSHF700 & SSHQC700 Hollow Shaft with Base

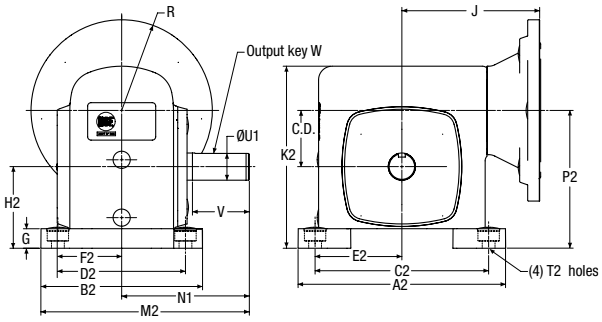




SSF700 & SSQC700 GS Solid Shaft without Base



SSF700 & SSQC700 GS Solid Shaft with Base



Size	C.D.	A1	A2	B1	B2	C1	C2	D1	D2	E1	E2	F1	F2
713	1.33	4.35	5.25	2.87	4.19	3.25	4.38	2.00	3.31	1.63	2.19	1.00	1.66
715	1.54	5.26	6.46	3.69	5.5	4.19	5.25	2.75	4.31	2.09	2.63	1.38	2.16
718	1.75	5.63	7.00	3.69	5.75	4.19	5.75	2.75	4.50	2.09	2.88	1.38	2.25
721	2.06	6.12	7.62	3.81	5.94	5.00	6.38	2.88	4.69	2.50	3.19	1.44	2.34
724	2.38	6.52	8.37	4.06	6.18	5.00	7.06	2.88	4.88	2.5	3.53	1.44	2.44
726	2.62	7.58	9.25	4.44	6.50	6.38	8.00	3.38	5.25	3.19	4.00	1.69	2.63
732	3.25	9.20	11.00	5.88	7.62	7.50	9.50	4.00	6.13	3.75	4.75	2.00	3.06

Size	G	H1	H2	J				K1	K2	M1	M2	N1	N2	P1	P2	Q
				F700		QC700 NEW										
				56C/140TC	180TC	56C/140TC	180TC									
713	0.53	1.72	2.25	3.94	-	5.46	-	4.27	4.8	5.88	6.10	4.00	2.50	3.06	3.59	#10-32
715	0.59	1.91	2.5	4.50	-	6.11	-	5.48	6.08	6.71	7.06	4.31	3.03	3.44	4.06	#10-32
718	0.69	2.06	2.75	4.69	-	6.29	-	5.31	6.00	6.74	7.19	4.31	3.03	3.81	4.50	#10-32
721	0.72	2.28	3.00	5.06	-	6.76	-	5.97	6.69	7.09	7.66	4.69	3.22	4.34	5.06	1/4-28
724	0.75	2.5	3.25	5.25	5.69	6.95	7.81	7.04	7.79	7.61	8.18	5.09	3.22	4.88	5.63	1/4-28
726	0.75	2.94	3.69	5.75	6.19	7.39	7.81	7.50	8.25	8.33	8.87	5.63	3.44	5.56	6.31	5/16-24
732	0.88	3.50	4.38	6.56	7.00	8.20	8.77	9.25	10.13	10.49	10.99	7.06	4.31	6.75	7.63	5/16-24

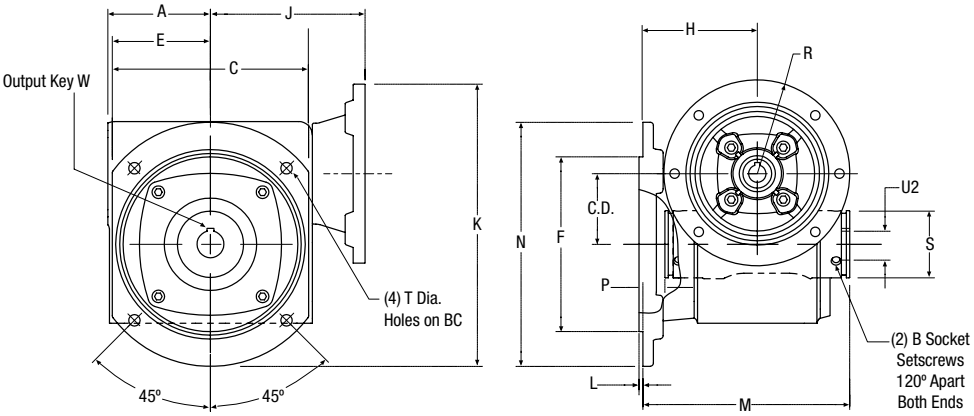
Size	R		S	T1	T2 C'Bore/ Hole Dias.	U1 +.000 -.001	Max U2*	V	W	Y	Z	Approx. Weight (lbs.)			
	56C/140TC	180TC/210TC										SSF700	SSHF700	SSF700B	SSHF700B
713	3.33	-	1.38	5/16-18	-	0.625	1.0000	2.00	3/16 x 1	0.63	*	13	15	15	17
715	3.33	-	1.38	5/16-18	.60 / .41	0.750	1.0000	1.78	3/16 x 1	0.63	*	21	24	23	26
718	3.33	-	1.38	5/16-18	.60 / .41	0.875	1.0000	1.78	3/16 x 1	0.60	*	22	25	25	28
721	3.33	-	2.00	3/8-16	.78 / .47	1.000	1.4375	2.09	1/4 x 1-1/4	0.82	*	27	30	30	33
724	3.33	4.63	2.00	3/8-16	.78 / .47	1.125	1.4375	2.38	1/4 x 1-1/4	0.70	*	37	42	41	46
726	3.33	4.63	2.50	3/8-16	.78 / .53	1.125	1.9375	2.63	1/4 x 1-15/16	0.73	*	40	47	44	51
732	3.33	4.63	2.88	7/16-14	.78 / .53	1.375	2.1875	3.25	5/16 x 2-7/16	0.89	*	63	76	70	83

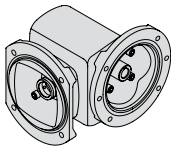
* Refer to Table 1 on page 56.

Dimensions



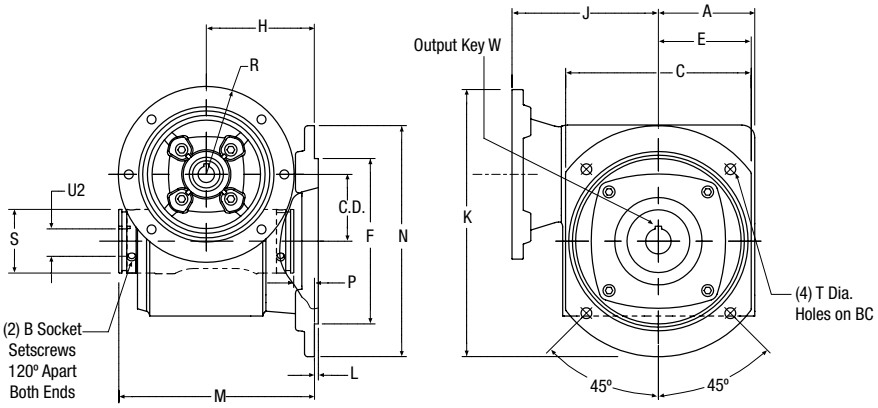
SSHF700W & SSHQC700W Hollow Output Shaft, W Position

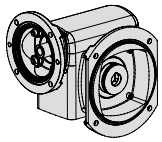




W Output Flange
(Available for all sizes)

SSHF700V & SSHQC700V Hollow Output Shaft, V Position





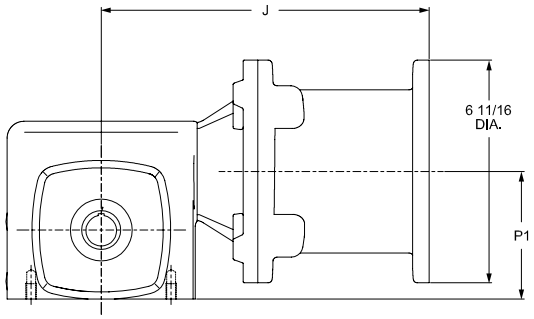
V Output Flange
(Not available for
sizes 718 & 721)

Size	C.D.	A	B	C	B.C.	E	F	H	J				K	L
									F700		QC700 NEW			
									56C/140TC	180TC	56C/140TC	180TC		
713	1.33	2.18	#10-32	4.75	5.00	2.38	4.125	3.18	3.94	-	5.46	-	7.55	0.15
715	1.54	2.63	#10-32	5.54	5.88	2.77	4.750	4.08	4.50	-	6.11	-	8.34	0.15
718	1.75	2.82	#10-32	5.53	5.88	2.77	4.750	3.62	4.69	-	6.29	-	8.55	0.15
721	2.06	3.06	1/4-28	6.03	6.50	3.02	5.250	3.94	5.06	-	6.76	-	9.17	0.15
724	2.38	3.25	1/4-28	6.80	7.50	3.40	5.500	4.22	5.25	5.69	6.95	7.81	9.94	0.15
726	2.62	3.80	5/16-24	7.29	8.00	3.65	6.500	4.45	5.75	6.19	7.39	7.81	10.50	0.15
732	3.25	4.60	5/16-24	8.79	10.00	4.40	8.000	5.50	6.56	7.00	8.20	8.77	12.22	0.15

Size	M	N	P	R		S	T**		Low Speed Shaft			Approx Weight (lbs.)
									Hollow Bore Output			
										W - Key		
				56C/140TC	180TC/210TC		Hole Dia	C-Bore Dia	Max U2*	Sq.	Length	
713	5.68	5.80	0.68	3.33	-	1.38	0.362	0.600	1.0000	*	*	16
715	7.11	6.94	1.05	3.33	-	1.38	0.362	0.600	1.0000	*	*	26
718	0.65	6.94	0.59	3.33	-	1.38	0.362	0.600	1.0000	*	*	29
721	7.16	7.56	0.72	3.33	-	2.00	0.425	0.600	1.4375	*	*	34
724	7.44	8.60	1.00	3.33	4.63	2.00	0.425	0.600	1.4375	*	*	48
726	7.89	9.08	1.01	3.33	4.63	2.50	0.425	0.600	1.9375	*	*	51
732	9.81	11.28	1.19	3.33	4.63	2.88	0.535	0.808	2.1875	*	*	80

* Refer to Table 1 on page 56.
** Designed for use with socket head capscrews.

SSHFWP700 & SSHQCW700 Hollow Output Shaft



Size	C.D.	J		P1
		F700	QC700 NEW	
		56C/140TC	56C/140TC	
713	1.33	9.07	10.59	3.06*
715	1.54	9.63	11.24	3.44
718	1.75	9.82	11.42	3.81
721	2.06	10.19	11.89	4.34
724	2.38	10.38	12.08	4.88
726	2.62	10.88	12.52	5.56
732	3.25	11.69	13.33	6.75

*Motor flange will drop below the bottom of the speed reducer.

Same dimensions for SSHFWP700 & SSQCWP700 Solid Output Shaft Models.

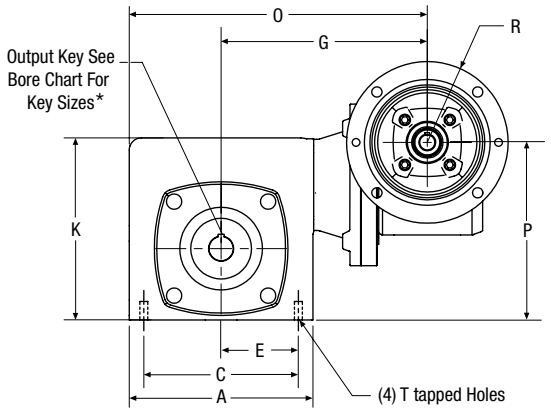
SS700 WB Series Double Reduction, Parallel Shafts

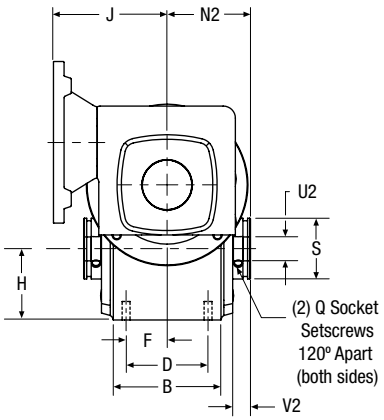
Dimensions

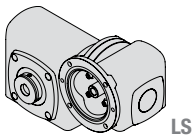
A



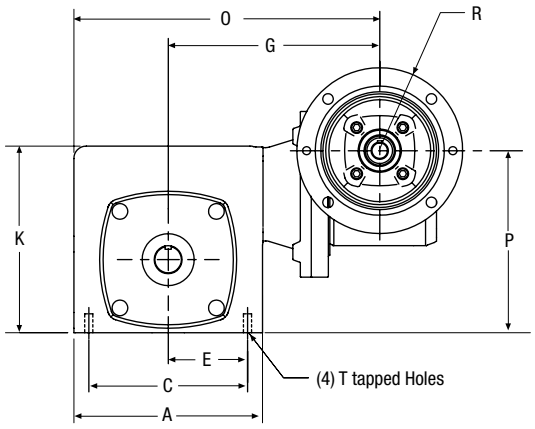
SSHFWB700 & SSHQCWB700 Hollow Output Shaft

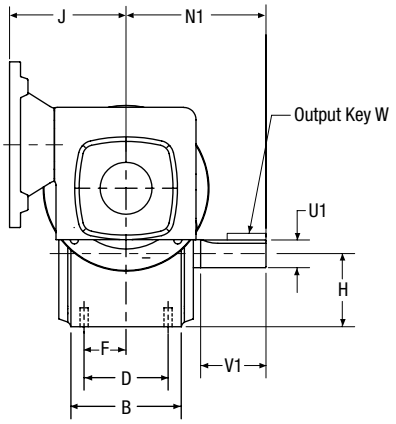


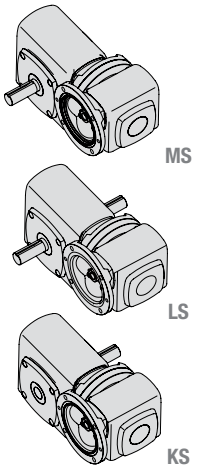




SSFWB700 & SSQCWB700 Solid Output Shaft







Size	A	B	C	D	E	F	G	H	J F700 56C/140TC	J QC700 NEW 56C/140TC	K	N1	N2	O	P
713	4.35	2.87	3.25	2.00	1.63	1.00	7.00	1.72	3.94	5.46	4.27	4.00	2.50	9.18	4.39
718	5.63	3.69	4.19	2.75	2.09	1.38	7.75	2.06	3.94	5.46	5.31	4.31	3.03	10.57	5.14
721	6.12	3.81	5.00	2.88	2.50	1.44	8.12	2.28	3.94	5.46	5.97	4.69	3.22	11.18	5.67
726	7.58	4.44	6.38	3.38	3.19	1.69	8.56	2.94	4.68	6.29	7.50	5.63	3.44	12.35	7.32
732	9.20	5.88	7.50	4.00	3.75	2.00	9.37	3.50	4.68	6.29	9.25	7.06	4.31	13.97	8.50

Size	Q	R 56C/140TC	S	T Tap Size	Low Speed Shaft: Solid Output Shaft: U1 +.000 -.001	V1	W - Key: Sq.	W - Key: Length	Hollow Bore Output: Max U2*	Hollow Bore Output: V2	Approx Weight (lbs.): SSFWB	Approx Weight (lbs.): SSHFWB
713	#10-32	3.33	1.38	5/16-18	0.625	2.13	3/16	1	1.0000	0.63	28	30
718	#10-32	3.33	1.38	5/16-18	0.875	1.78	3/16	1	1.0000	0.60	37	40
721	1/4-28	3.33	2.00	3/8-16	1.000	2.09	1/4	1-1/4	1.4375	0.82	42	45
726	5/16-24	3.33	2.50	3/8-16	1.125	2.63	1/4	1-15/16	1.9375	0.73	62	69
732	5/16-24	3.33	2.88	7/16-14	1.375	3.25	5/16	2-7/16	2.1875	0.88	85	98

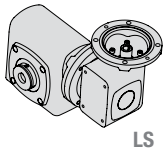
* Refer to Table 1 on page 56.

SS700 WD Series Double Reduction, Right Angle Shafts

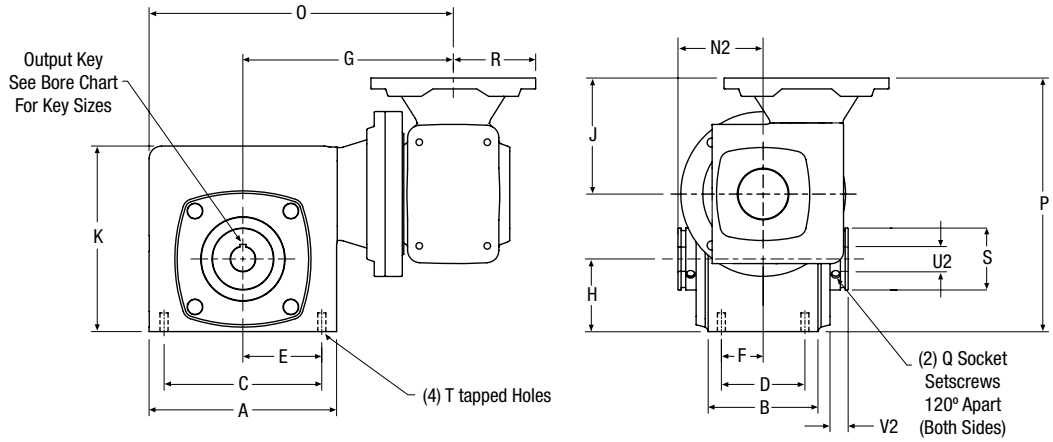
Dimensions



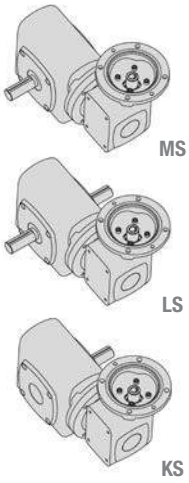
SSHFWD700 & SSHQCWD700 Hollow Output Shaft



LS



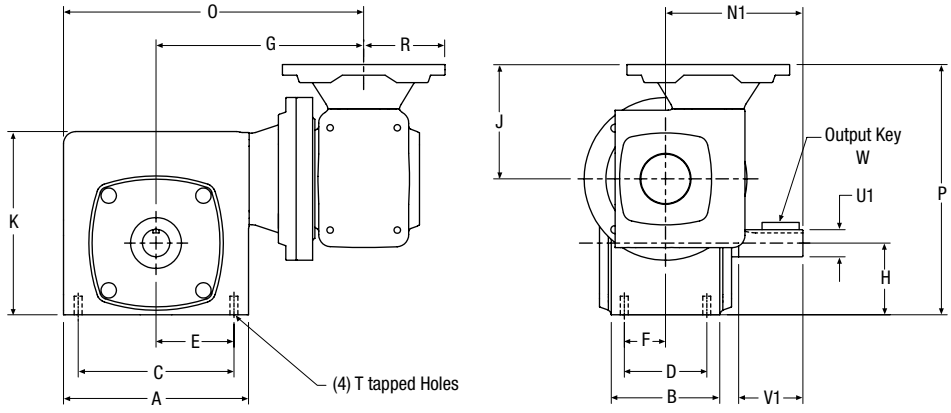
SSFWD700 & SSQCWD700 Solid Output Shaft



MS

LS

KS



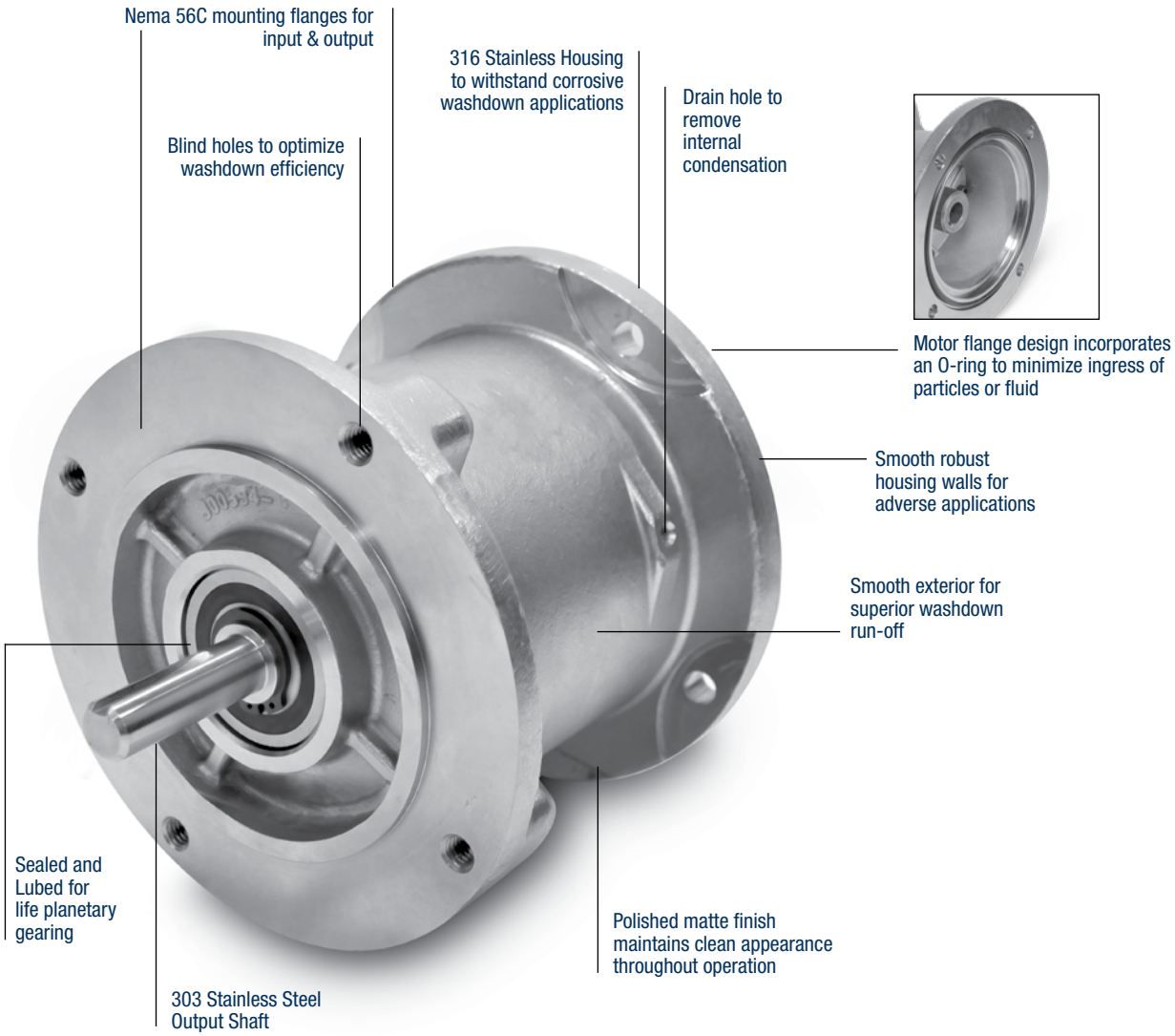
Size	A	B	C	D	E	F	G	H	J F700 56C/140TC	J QC700 NEW 56C/140TC	K	N1	N2	O	P F700 56C/140TC	P QC700 NEW 56C/140TC
713	4.35	2.87	3.25	2.00	1.63	1.00	7.00	1.72	3.94	5.46	4.27	4.00	2.50	9.18	4.39	5.91
718	5.63	3.69	4.19	2.75	2.09	1.38	7.75	2.06	3.94	5.46	5.31	4.31	3.03	10.57	5.14	6.66
721	6.12	3.81	5.00	2.88	2.50	1.44	8.12	2.28	3.94	5.46	5.97	4.69	3.22	11.18	5.67	7.19
726	7.58	4.44	6.38	3.38	3.19	1.69	8.56	2.94	4.68	6.29	7.50	5.63	3.44	12.35	10.25	11.86
732	9.20	5.88	7.50	4.00	3.75	2.00	9.37	3.50	4.68	6.29	9.25	7.06	4.31	13.97	11.44	13.05

Size	Q	R 56C/140TC	S	T Tap Size	Low Speed Shaft: Solid Output Shaft U1 +.000 -.001	V1	W - Key Sq.	W - Key Length	Hollow Bore Output Max U2*	Hollow Bore Output V2	Approx Weight (lbs.) SSFWD	Approx Weight (lbs.) SSHFWD
713	#10-32	3.33	1.38	5/16-18	0.625	2.13	3/16	1	1.0000	0.63	28	30
718	#10-32	3.33	1.38	5/16-18	0.875	1.78	3/16	1	1.0000	0.60	37	40
721	1/4-28	3.33	2.00	3/8-16	1.000	2.09	1/4	1-1/4	1.4375	0.82	42	45
726	5/16-24	3.33	2.50	3/8-16	1.125	2.63	1/4	1-15/16	1.9375	.73	62	69
732	5/16-24	3.33	2.88	7/16-14	1.375	3.25	5/16	2-7/16	2.1875	.88	85	98

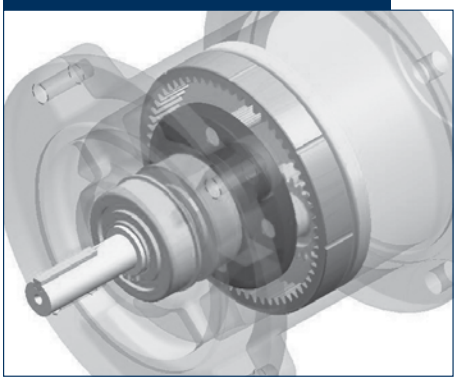
* Refer to Table 1 on page 56.

Expanded Speed Reduction while Maintaining Operating Efficiency

A

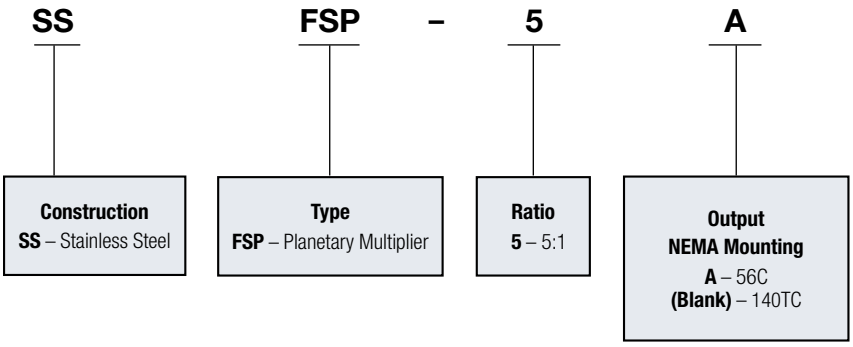


High Efficiency, Quiet Operation Planetary Gearing



Ordering Information

Stainless Steel Stand - Alone Planetary Multiplier **Example: SSFSP-5A**



Lubrication

All SSFSP Series Planetary Multipliers are supplied as Lubricated-for-Life for maximum efficiency, maintenance-free operation. The inherent design of planetary gearing is conducive to the use of grease as a lubricant, because the rotation of the sun and planet gears inside of the internal ring gear promotes even distribution of the lubricant and consistent recirculation. The lubricant we apply at the time of assembly is Klubersynth UH1 14-222 grease which has the characteristics shown below.

LUBRICANT	Type	Operating Temperature Range	Certifications	Comments
Klubersynth UH1 14-222	Synthetic Grease, NLGI2	-15F to +225F (-25C to +107C)	FDA 21CFR178.3570 compliant, NSF registered	H1 Food-Grade

Notes: Temperature limit is dictated by multiplier components and not the lubricant.

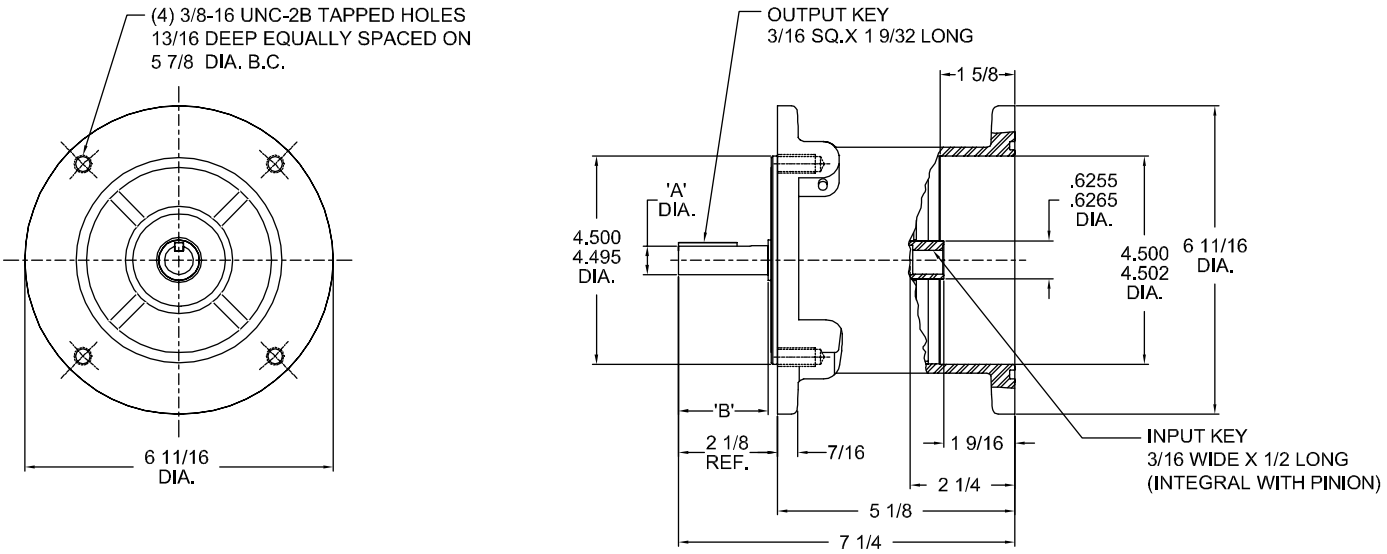
Performance Data

A

Output RPM	Ratio	Motor HP (1750 RPM Input)	Output		Multiplier Catalog Number
			HP	Torque (lb.ins)	
350	5	1/6	.14	25	SSFSP-5 OR SSFSP-5A
		1/4	.21	38	
		1/3	.29	56	
		1/2	.45	81	
		3/4	.69	124	

Dimensions





Dimensions in Inches

Catalog Number	A Shaft Dia.	B Shaft Length	Ouput NEMA Frame Size	Input NEMA Frame Size
SSFSP-5A	.6245 / .6240	1-15/16	56C	56C
SSFSP-5	.8745 / .8740	2	140TC	56C



Section Contents

Product Reference Guide 68

Numbering System / How to Order 68-71

Selection Procedure. 71

Assemblies and Mounting Positions 72-75

Recommended Lubricants 76

Output rpm Selection Tables. 77-81

Reducer Dimensions 82-101

For Other Boston Gear Reducers, Contact Factory.

700 Series Double Reduction Catalog Number & Reference Guide

700 Series Right Angle Worm Gearbox - Double Reduction

SBKC H QC HMA 7 38 B – 300 K E Z T – B5 –

Input Shaft Style
- **Blank**–Solid Projecting Input Shaft
- **F**- Quill Style Motor Flange
- **RF** – Coupling Style Motor Flange
- **QC** – *Quick Connect* Motor Flange (close coupled)

Output Shaft Style
- **Blank**–Solid Output Shaft
- **H** – *BostMount* Hollow Output (setscrews both sides, bore size selectable)
- **S** – Hollow Output (setscrews one side, bore size fixed)

Reducer Material/Paint
- **Blank**–Cast Iron, Std. Gray paint
- **BKC** – Cast Iron, White *BostKleen* paint
- **SBKC**– Cast Iron, Stainless *BostKleen* paint
- **SS** – Stainless Steel material – no paint

Reduction Type
- **WA** – Double Reduction Parallel Shafts
- **WB** – Double Reduction Parallel Shafts
- **WC** – Double Reduction Right Angle Shafts
- **WD** – Double Reduction Right Angle Shafts
- **HMA** – Helical Multiplier 12 O'clock
- **HMB** – Helical Multiplier 6 O' clock
- **HMC** – Helical Multiplier 3 O'clock
- **HMD** – Helical Multiplier 9 O'clock
- **WP** – Planetary Torque Mulitplier

7 – 700 Series

Center Distance (inches)
- **13** – 1.33
- **18** – 1.75
- **21** – 2.06
- **26** – 2.62
- **30** – 3.00
- **32** – 3.25
- **38** – 3.75
- **52** – 5.13
- **60** – 6.00

Base/Mounting Attachment*
- **Blank** – No base kit required
- **A & B** – Horizontal bases
- **C & E** – Vertical High bases
- **D & F** – Vertical Low bases
- **R/L** – *BostMount* Output Bracket
- **X** – Input Vertical Up
- **Y** – Input Vertical Down
- **V/W** – Hollow O/P with base
- **M/N** – Hollow O/P with CFA

*See catalog for mounting configurations

Exact Gear Ratio Ratio to 1

100	1200
150	1800
200	2000
300	2400
400	3000
600	3600
900	

Check Catalog – Or consult factory for availability

Lubrication
- **Blank**–No lubrication
- **K** – Klubersynth UH1 6-460
- **S** – Mobil SHC 634
- **X** – Mobil 600W

Endcap (732-760 only)
- **E** – Endcap (standard)

Vent
- **Blank**–Standard Vent
- **P** – Pressure Vent (5 psi)
- **Z** – Posivent (sealed)

Oil Seal
- **Blank**– Standard Seal
- **T**– Two Standard Input Seals
- **C**– High pressure washdown output seals and double input seals (stainless products only) **IP69K**

NEMA Motor Mounting

BORE CODE	NEMA MOUNTING	INPUT BORE	KEYWAY
B4	42CZ	.500"	1/8 x 1/16
B5	56C	.625	3/16 x 3/32
B7	140TC/180C	.875	3/16 x 3/32
B9	180TC/210C	1.125	1/4 x 1/8
B11	210TC/250UC	1.375	5/16 x 5/32
B13	250TC	1.625	3/8 x 3/16

Blank Solid Input Shaft (No Flange)

700 Series Double Reduction Flanged & Non-Flanged Reducers

Ordering Information - Page 70
Selection/Rating Information - Pages 71, 77-81
Lubrication - Page 76
Motor Selection - Pages 335 and 336



FWA/QCWA700 BASIC
Dimensions - Page 82



FWC/QCWC700 BASIC
Dimensions - Page 87



WA700 BASIC
Dimensions - Page 92



WC700 BASIC
Dimensions - Page 97



HFWA/HQCWA700 BASIC
Dimensions:
HFWA/QCWA700 - Page 83
HFWA/QCWA700R/L - Page 84
HFWC/QCWC700 - Page 87
HFWC/QCWC700R/L - Page 89



SFWA700 BASIC
Dimensions:
SFWA700 - Page 85
SFWA700V - Page 86
SFWC700 - Page 90
SFWC700V/W - Page 91



HWA/HWC700 BASIC
Dimensions:
HWA700 - Page 92
HWA700R - Page 94
HWC700 - Page 98
HWC700R/L - Page 99



SWA/SWC700 BASIC
Dimensions:
SWA700 - Page 95
SWA700V - Page 96
SWC700 - Page 100
SWC700V/W - Page 101

HS 1 – P24 –

BostMount Output Bore Code

For H Series Only Specified in 1/16" increments.

Example: 1 1/4" = P20

5/8 – **P10**	1-1/2 – **P24**
3/4 – **P12**	1-5/8 – **P26**
7/8 – **P14**	1-11/16 – **P27**
15/16 – **P15**	1-3/4 – **P28**
1 – **P16**	1-7/8 – **P30**
1-1/16 – **P17**	1-15/16 – **P31**
1-1/8 – **P18**	2 – **P32**
1-3/16 – **P19**	2-1/8 – **P34**
1-1/4 – **P20**	2-3/16 – **P35**
1-5/16 – **P21**	2-1/4 – **P36**
1-3/8 – **P22**	2-7/16 – **P39**
1-7/16 – **P23**	3-7/16 – **P55**

See catalog page 128 for availability by center distance.
Consult factory for metric bores

Mounting Positions

Blank -No Lubrication Supplied

For Factory Prelubrication Indicate Mounting Position

1 – Standard Mounting(Worm over)
2-6 – Refer to Mounting Positions on catalog page 72 and 73.

Output Shaft Assembly

Double Reduction WA and WB	
G	Output Projection Opposite Input
H	Double Output Projection
J	Output Projection Same Side as Input
GS	Stainless Output Projection Opposite Input
HS	Stainless Double Output Projection
JS	Stainless Output Projection Same Side as Input
Double Reduction WA and WB Mirrored Design	
K	Output Projection Opposite Input
L	Double Output Projection
M	Output Projection Same Side as Input
KS	Stainless Output Projection Opposite Input
LS	Stainless Double Output Projection
MS	Stainless Output Projection Same Side as Input
Double Reduction WC and WD (When facing Input)	
G	Output Projection Down
H	Double Output Projection
J	Output Projection Upward
GS	Stainless Output Projection Down
HS	Stainless Double Output Projection
JS	Stainless Output Projection Upward
Double Reduction WC and WD (When facing Input) Mirrored Design	
K	Output Projection Down
L	Double Output Projection
M	Output Projection Upward
KS	Stainless Output Projection Down
LS	Stainless Double Output Projection
MS	Stainless Output Projection Upward

Clutch/Brake

CMBA56U-6 –

Common C-Face Brakes Installed		
115/230 VAC 60hz	**Ft-Lb**	**Bore Code**
CMBA56R-3	3	B5
CMBA56R-6	6	B5
CMBA140TR-6	6	B7
208-230/460 VAC 60hz	**Ft-Lb**	**Bore Code**
CMBA56U-3	3	B5
CMBA56U-6	6	B5
CMBA140TU-6	6	B7

Other sizes available. See catalog page 343.

Motor

HUTF5/8-IDB – 3

Motor Conduit box Orientation

(When looking at fan end of motor and gearbox is in mounting position #1)

0 – 12 O'clock
3 – 3 O'clock(standard for G & H shaft assemblies)
6 – 6 O'clock
9 – 9 O'clock (standard for J shaft assemblies)

Common C-Face Motors Installed

HP Rating	Bore Code	AC Voltage	
		115/208-230-1-60	208-230/460-3-60
1/4 HP	B5	**DRTFB**	**DUTFB**
1/3 HP	B5	**ERTFB**	**EUTFB**
1/2 HP	B5	**FRTFB**	**FUTFB**
	B5		**FUT-SS**
	B5		**FUTF-IDB**
3/4 HP	B5	**GRTFB**	**GUTFB**
	B5		**GUT-SS**
	B5		**GUTF-IDB**
1 HP	B5	**HRTF-5/8B**	**HUTF5/8B**
	B5		**HUT5/8-SS**
	B5		**HUTF5/8-IDB**
	B7		**HUTFB**
	B7		**HUT-SS**
	B7		**HUTF-IDB**
1.5 HP	B7		**JUTFB**
	B7		**JUTF-SS**
	B7		**JUTF-IDB**
2 HP	B5		**KUTF5/8B**
	B7		**KUTFB**
	B7		**KUTF-SS**
	B7		**KUTF-IDB**
3 HP	B9		**LUTFB**
	B9		**LUTF-SS**
	B9		**LUTF-IDB**
5 HP	B9		**MUTFB**

Other motors available, please see catalog pages 333 to 343.

T – Totally enclosed non-ventilated
TF – Totally enclosed fan cooled
SS – Stainless
IDB – Inverter Duty (10:1 turn down constant torque)
B5 – 56C
B7 – 140TC
B9 – 180TC

B

Double Reduction Numbering System / How to Order

Style	Size	Base	Ratio	Lubrication	Vent	Input Seal	NEMA Mounting	Shaft Assembly	Mounting Position	Output Bore Code

Style **Designates reducer or flanged reducer, projecting or hollow output shaft.**

- **C-** Prefix — Designates cast iron flange and base. Standard on motor flanges 3 HP (180TC) and up and all bases except horizontal (710-726).
- **WA-** Double reduction, parallel shaft reducer with projecting output shaft.
- **HWA-** Double reduction, parallel shaft reducer with BostMount hollow output shaft.
- **SWA-** Double reduction, parallel shaft reducer with hollow output shaft.
- **WC-** Double reduction, right angle shaft reducer with projecting output shaft.
- **HWC-** Double reduction, right angle shaft reducer with BostMount hollow output shaft.
- **SWC-** Double reduction, right angle shaft reducer with hollow output shaft.
- **FWA-** Double reduction, parallel shaft flanged reducer (Quill types) with projecting output shaft.
- **HFWA-** Double reduction, parallel shaft flanged reducer (Quill types) with BostMount hollow output shaft.
- **SFWA-** Double reduction, parallel shaft flanged reducer (Quill types) with hollow output shaft.
- **FWC-** Double reduction, right angle shaft flanged reducer (Quill types) with projecting output shaft.
- **HFWC-** Double reduction, right angle shaft flanged reducer (Quill types) with BostMount hollow output shaft.
- **SFWC-** Double reduction, right angle shaft flanged reducer (Quill types) with hollow output shaft.
- **QCWA-** Double reduction, parallel shaft flanged reducer (Coupling types) with projecting output shaft.
- **HQCWA-** Double reduction, parallel shaft flanged reducer (Coupling types) with BostMount hollow output shaft.
- **QCWC-** Double reduction, right angle shaft flanged reducer (Coupling types) with projecting output shaft.
- **HQCWC-** Double reduction, right angle shaft flanged reducer (Coupling types) with projecting output shaft.
- **SSFWB/SSFWD-** Stainless steel double reduction with solid output shaft.
- **SSHFWB/SSHFWD-** Stainless steel double reduction with hollow output shaft.

Size **Center distance, rounded off. On double reduction models this is the Center Distance of the second reduction.**

713 - 1.33	**726** - 2.62	**738** - 3.75
718 - 1.75	**730** - 3.00	**752** - 5.16
721 - 2.06	**732** - 3.25	**760** - 6.00

Base **Base positions relative to output shaft. Shipped separately as Base Kits. See Page 129.**

- **Blank** - No Base Kit
- **A,B** - Horizontal Bases
- **C,D,E,F** - Vertical Bases
- **R/L** - BostMount Output Bracket
- **X** - Input Vertical Up
- **Y** - Input Vertical Down
- **V,W** - Flanged bases, available on "S" hollow shaft models only. Factory assembled.
- **M,N-** Hollow Output with CFA

Ratio **See Selection Tables for available ratios**

Lubrication **Optional prelubrication.**

- **Blank** - No lubrication supplied.
- **K** - Klubersynth UH1 6-460
- **S** – Mobil SHC 634
- **X** – Mobil 600W

When specifying optional prelubrication, include mounting position after shaft assembly.

Vent **Pressure Relief.**

- **Blank** – Standard Vent
- **P** – 5 PSI Vent
- **Z** – PosiVent® Pressure Compensationg Bladder
  When specifying optional prelubrication, include mounting position after shaft assembly.

Input Oil Seal

- **Blank** – Standard Seal
- **T** – Double Input Seals. Recommended for mounting positions 2, 3, 4, 6

NEMA Mounting **Designates flange size and input bore diameter. Flanged reducers only. Leave blank for projecting input reducers.**

Bore Code	NEMA Mounting	Input Bore	Keyway
B4	42CZ	.500"	1/8 x 1/16
B5	56C	.625	3/16 x 3/32
B7	140TC/180C	.875	3/16 x 3/32
B9	180TC/210C	1.125	1/4 x 1/8

See page 252 for Mounting Dimensions.

Shaft Assembly **Assembly shaft arrangements. See Assemblies, Pages 72-75.**

- **G*** - Standard assembly
- **H*** - Double output shaft projection.
- **J*** - Opposite to standard.

* Add "**S**" after letter for Stainless Steel Shaft (ex. **GS**, **HS**, **JS**)

Mounting Position **Designates the position of oil and vent plugs with respect to mounting.**

- **Blank** - For units not supplied prelubricated.
- **1-6** - See Pages 58-61.

Output Bore Code **Specified in 1/16" increments. See Page 114 for complete offering. Example: 1 1/4" = P20 Required for H Series only.**

How to Order

When ordering reducers please include code letters for Style, Size, Base (if required), Ratio, Lubrication (if required), NEMA Mounting (if flanged reducer), Shaft Assembly and Motor (if required).

EXAMPLE: Required size, 726 Quill types flanged double reduction reducer, 100 to 1 ratio, 5/8" input bore, parallel shafts, standard assembly, no base.

Motor to be 3/4 HP, 1750 RPM, 230/460 Volt, 3 Phase, 60 cycle, Open Dripproof.

FWA | 726 – 100 – B5 – G – GUB3

ORDER: FWA726-100-B5-G-GUB3

NOTE: For other assembly configurations, contact factory.

To properly select a speed reducer, the following application information must be known:

Input RPM (Ratio)
Output Torque
Input Horsepower
Service Factor

Non-Motorized Speed Reducer

1. Determine service factor from table below.
2. Determine design horsepower.
   Design Horsepower =
   Application Load x Service Factor
3. Select a speed reducer size that satisfies output RPM, service class and/or output torque requirements.
4. Check overhung load capacity.

Motorized Speed Reducer

1. Determine service class from table below
2. Select a reducer size that satisfies output RPM, service class and/or output torque requirements.
3. Check overhung load capacity.

Service Factor Table

AGMA Class of Service	Service Factor	Operating Conditions
I	1.00	Moderate Shock-not more than 15 minutes in 2 hours.
		Uniform Load-not more than 10 hours per day.
II	1.25	Moderate Shock-not more than 10 hours per day.
		Uniform Load-more than 10 hours per day.
	1.50	Heavy Shock-not more than 15 minutes in 2 hours.
		Moderate Shock-more than 10 hours per day.
III	1.75	Heavy Shock-not more than 10 hours per day.
	2.00	Heavy Shock-more than 10 hours per day.

For complete AGMA Service Factors and Load Classifications, see Engineering Section, Pages 349 and 350.

Double Reduction Selection Tables

Capacity selection tables on Pages 77-81 list catalog numbers and ratios of both reducers and gearmotors. Output RPM, output torque and horsepower are all based on 1750 RPM input. For motorized reducer selection, select the desired output RPM and refer to the gearmotor ratings column. For non-motorized reducers, refer to the reducer gear capacity columns. For the desired HP, torque and service factor that satisfies your requirements, a 700 Series basic reducer number will be indicated. For complete catalog part number, descriptions and options, refer to Page 70.

Overhung Load

If the output shaft of a speed reducer is connected to the driven machine by other than a flexible coupling, an overhung load is imposed on the shaft. This load may be calculated as follows:

$$OHL = \frac{2TK}{D}$$

OHL = Overhung Load (LB.)

T = Shaft Torque (LB.IN.)

D = PD of Sprocket, Pinion or Pulley (IN.)

K = Load Connection Factor

Load Connection Factor

Sprocket or Timing Belt 1.00

Pinion and Gear Drive 1.25

Pulley and V-Belt Drive. 1.50

Pulley and Flat Belt Drive 2.50

An overhung load greater than permissible load value may be reduced to an acceptable value by the use of a sprocket, pinion or pulley or a larger PD. Relocation of the load closer to the center of reducer will also increase OHL capacity.

Permissible overhung loads and output shaft thrust loads are listed for each reducer in the tables on Pages 30-33.

Maximum Input Speeds

W713, W718, W721, W726. . . . . .4500 RPM

W730 through W760 . . . . . .3600 RPM

NOTE: Horsepower ratings for 1750 RPM should NOT be exceeded when operating at higher input speeds.

Ratings shown reflect maximum gear capacity with Klubersynth UH1 6-460 lubricant. The use of other lubricants may reduce ratings by up to 15%.

Ratings are mechanical not thermal.

B

Flanged Reducer **Assemblies and Mounting Positions**

B

Assemblies–FWA/QCWA700 Series

Standard assemblies define output shaft (slow speed) projection with respect to input shaft (high speed) and mounting surface.

Types “A” and “B” are horizontal bases.

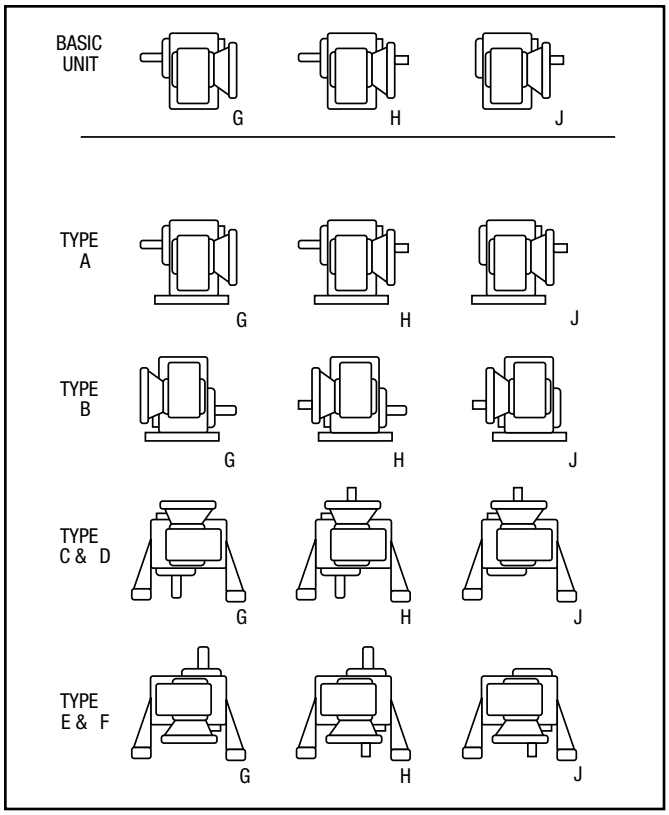
Types “C” and “E” are vertical high bases and Types “D” and “F” are vertical low bases.

Basic models and separate base kits are supplied unless otherwise specified. Assembly “H” available at a slight additional charge.

See Page 70 for complete ordering instructions.

Input may rotate clockwise or counter clockwise.

For other configurations not shown, contact factory.



Mounting Positions – FWA/QCWA – HFWA/HQCWA – SFWA700 Series

Standard assemblies are for Position 1. The design permits any types of assembly to be mounted in any position shown by the proper location of the vented oil filler, level and drain plugs, at the time of installation.

For other than Position 1, order standard and relocate vented oil filler, level and drain plugs.

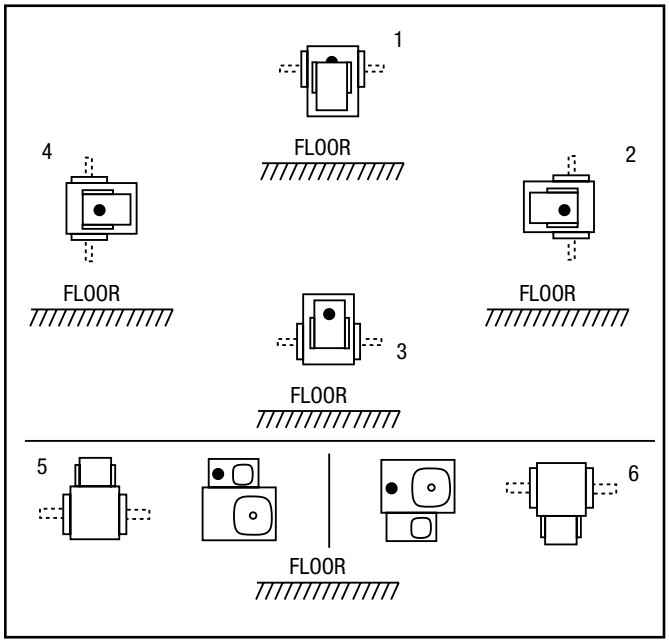
Vented oil filler plug must be located in the uppermost position.

For all mounting positions where the vented filler plug is located in a horizontal plane, the vent hole must point upward.

For all mounting positions where the vented filler plug is located in a vertical plane, the vent hole must point toward center of housing.

For production orders Boston Gear will assemble units for the specified mounting position desired at no additional charge.

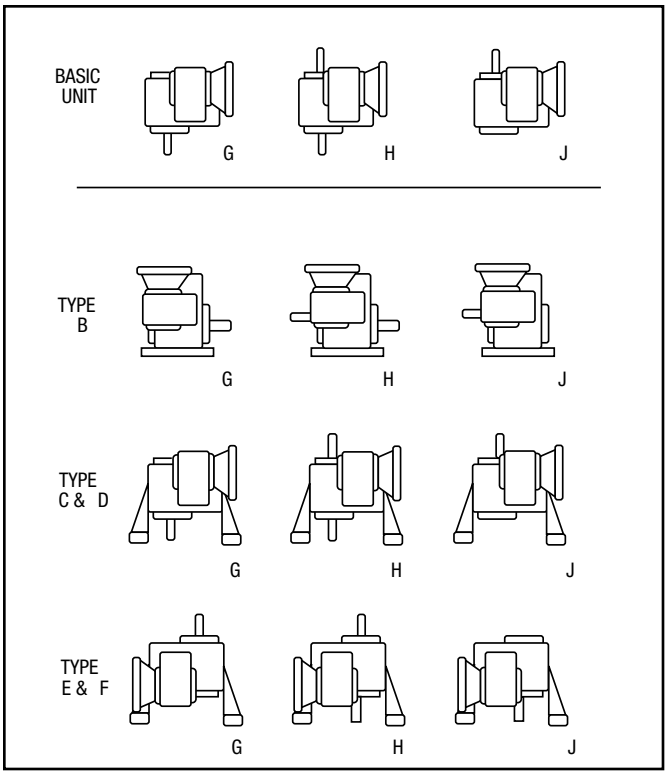
WARNING: The lubricant will flow between the large gearbox and the small gearbox. When filling with oil, make sure both gearboxes are full to the correct/same level. It is strongly recommended the oil level in each gearbox is verified after a short run.



- Indicates proper oil level.

CAUTION

When ordering speed reducers pre-lubricated, the Mounting Position must be indicated to ensure proper oil level.



Assemblies–FWC/QCWC700 Series

Standard assemblies define output shaft (slow speed) projection with respect to input shaft (high speed) and mounting surfaces.

Types “B” is a horizontal base.

Types “C” and “E” are vertical high bases and types “D” and “F” are vertical low bases.

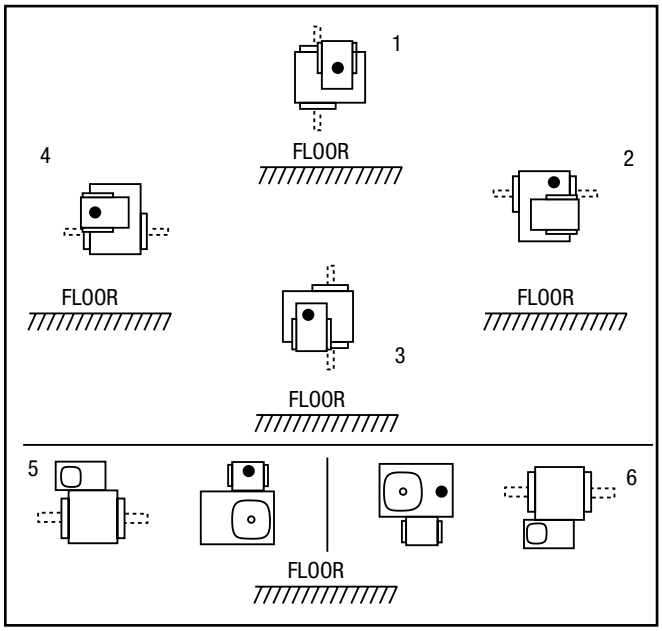
Basic models and separate base kits are supplied unless otherwise specified. Assembly “H” available at a slight additional charge.

See Page 70 for complete ordering instructions.

Input may rotate clockwise or counter clockwise.

For other configurations not shown, contact factory.

B



- Indicates proper oil level.

CAUTION

When ordering speed reducers pre-lubricated, the Mounting Position must be indicated to ensure proper oil level.

Mounting Positions – FWC/QCWC – HFWC/HQCWC – SFWC700 Series

Standard assemblies are for Position 1. The design permits any types of assembly to be mounted in any position shown by the proper location of the vented oil filler, level and drain plugs, at the time of installation.

For other than Position 1, order standard and relocate vented oil filler, level and drain plug.

Vented oil filler plug must be located in the uppermost position.

For all mounting positions where the vented filler plug is located in a horizontal plane, the vent hole must point upward.

For all mounting positions where the vented filler plug is located in a vertical plane, the vent hole must point toward center of housing.

For production orders Boston Gear will assemble units for the specified mounting position desired at no additional charge.

WARNING: The lubricant will flow between the large gearbox and the small gearbox. When filling with oil, make sure both gearboxes are full to the correct/same level. It is strongly recommended the oil level in each gearbox is verified after a short run.

Assemblies–WA700 Series

Standard assemblies define output shaft (slow speed) projection with respect to input shaft (high speed) and mounting surfaces.

Types “A” and “B” are horizontal bases.

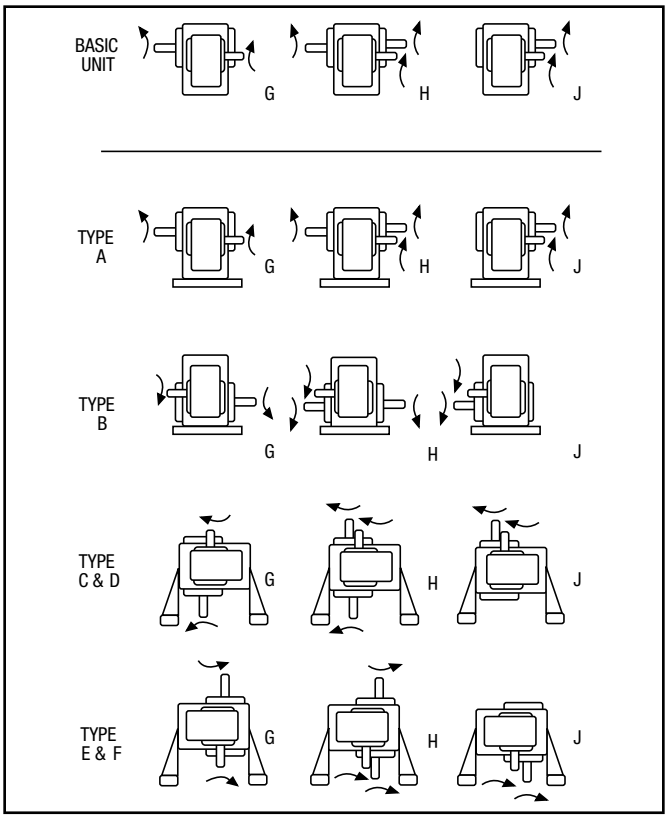
Types “C” and “E” are vertical high bases and types “D” and “F” are vertical low bases.

Basic models and separate base kits are supplied unless otherwise specified. Assembly “H” available at a slight additional charge.

See Page 70 for complete ordering instructions.

Input may rotate clockwise or counter clockwise. Arrows indicate relative rotation.

FOR OTHER CONFIGURATIONS NOT SHOWN, CONTACT FACTORY.



Mounting Positions – WA – HWA – SWA 700 Series

Standard assemblies are for Position 1. The design permits any types of assembly to be mounted in any position shown by the proper location of the vented oil filler, level and drain plugs, at the time of installation.

For other than Position 1, order standard and relocate vented oil filler, level and drain plug.

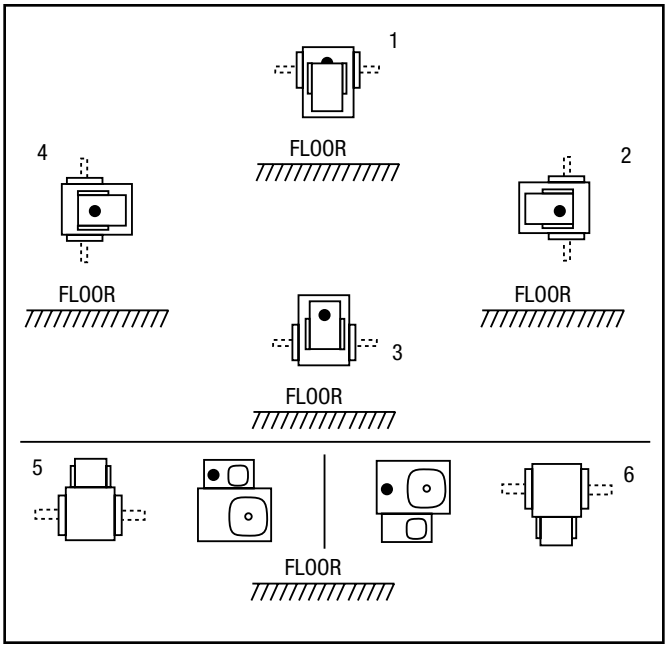
Vented oil filler plug must be located in the uppermost position.

For all mounting positions where the vented filler plug is located in a horizontal plane, the vent hole must point upward.

For all mounting positions where the vented filler plug is located in a vertical plane, the vent hole must point toward center of housing.

For production orders Boston Gear will assemble units for the specified mounting position desired at no additional charge.

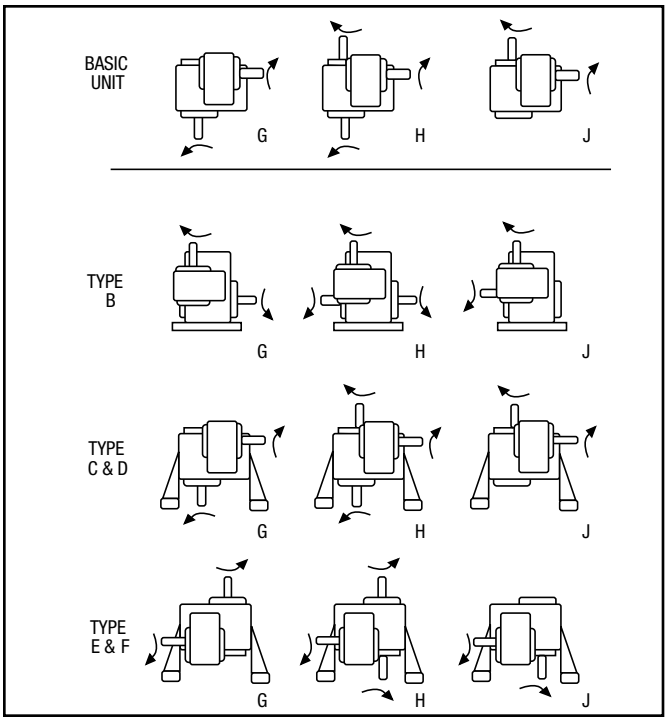
WARNING: The lubricant will flow between the large gearbox and the small gearbox. When filling with oil, make sure both gearboxes are full to the correct/same level. It is strongly recommended the oil level in each gearbox is verified after a short run.



- Indicates proper oil level.

CAUTION

When ordering speed reducers pre-lubricated, the Mounting Position must be indicated to ensure proper oil level.



Assemblies–WC700 Series

Standard assemblies define output shaft (slow speed) projection with respect to input shaft (high speed) and mounting surfaces.

Types “B” is a horizontal base.

Types “C” and “E” are vertical high bases and types “D” and “F” are vertical low bases.

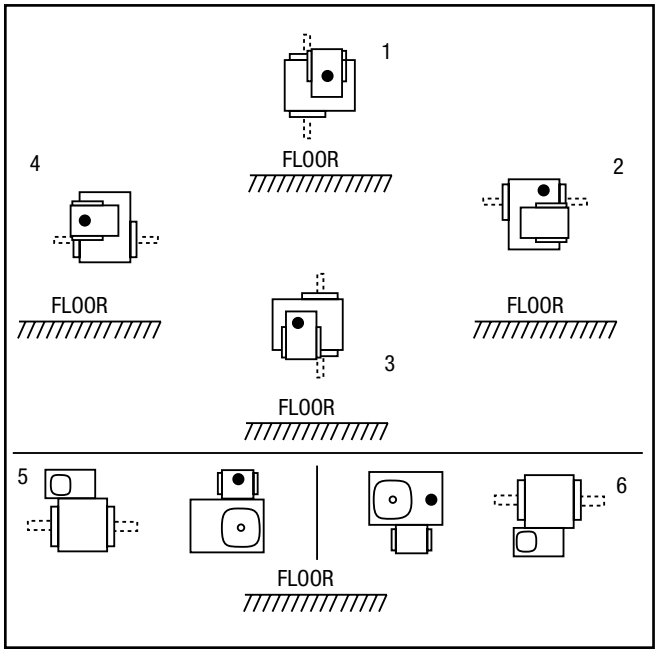
Basic models and separate base kits are supplied unless otherwise specified. Assembly “H” available at a slight additional charge.

See Page 70 for complete ordering instructions.

Input may rotate clockwise or counter clockwise. Arrows indicate relative rotation.

FOR OTHER CONFIGURATIONS NOT SHOWN, CONTACT FACTORY.

B



- **Indicates proper oil level.**

CAUTION

When ordering speed reducers pre-lubricated, the Mounting Position must be indicated to ensure proper oil level.

Mounting Positions – WC – HWC – SWC 700 Series

Standard assemblies are for Position 1. The design permits any types of assembly to be mounted in any position shown by the proper location of the vented oil filler, level and drain plugs, at the time of installation.

For other than Position 1, order standard and relocate vented oil filler, level and drain plug.

Vented oil filler plug must be located in the uppermost position.

For all mounting positions where the vented filler plug is located in a horizontal plane, the vent hole must point upward.

For all mounting positions where the vented filler plug is located in a vertical plane, the vent hole must point toward center of housing.

For production orders Boston Gear will assemble units for the specified mounting position desired at no additional charge.

WARNING: The lubricant will flow between the large gearbox and the small gearbox. When filling with oil, make sure both gearboxes are full to the correct/same level. It is strongly recommended the oil level in each gearbox is verified after a short run.

700 Series **Recommended Lubricants**

The following table indicates the types and viscosity of lubricants suitable for reducers operating at various temperatures.

Lubrication and maintenance instructions are provided with each speed reducer. These instructions should be followed for best results. It is important that the correct types of oil be used since many oils are not suitable for the lubrication of gears. Various types of gearing require different types of lubricants.

The lubricant must remain free from oxidation and contamination by water or debris, since only a very thin film of oil stands between efficient operation and failure. To assure long service life, the reducer should be periodically drained (preferably while warm) and refilled to the proper level with a recommended gear oil.

Under normal environmental conditions oil changes are suggested after the initial 250 hours of operation and thereafter at regular intervals of 2500 hours or every 6 months.

Synthetic lubricants will allow extended lubrication intervals due to its increased resistance to thermal and oxidation degradation. It is suggested that the initial oil change be made at 1500 hours and, thereafter, at 5000 hour intervals.

During the initial period of operation, higher than normal operating temperatures may be seen. This is due to the initial break-in of the gear set. The temperature of Single Reduction Worm Gear Reducers may reach approximately 225°F.

B

ENCLOSED WORM GEAR REDUCERS

Ambient (Room) Temperature	Recommended Oil (or equivalent)	Viscosity Range SUS @ 100°F	Oil Type	ISO Viscosity Grade No.†
–20° to 225°F** (–29° to 107°C)	Klubersynth UH1 6-460* Synthetic	1950/2500	PAG	460
–30° to 225°F** (–34° to 107°C)	"Mobil SHC634 Synthetic"	1950/2500	PAO	320/460

WORM GEAR LUBRICANT AVAILABLE FROM BOSTON GEAR

TYPES	Klubersynth UH1 6-460	Mobil SHC634
SIZE	QUART	QUART
ITEM CODE	65159	51493

CAUTION: Relubricate more frequently if drive is operated in high ambient temperatures or unusually contaminated atmosphere. High loads and operating temperatures will also require more frequent lubrication.

* Synthetic recommendation is exclusively for Klubersynth UH1 6-460.

† Other lubricants corresponding to AGMA/ISO numbers are available from all major oil companies. See Page 135 for lubricant interchange.

** The Klubersynth UH1 6-460 lubricant will perform at temperatures considerably higher than 225°F. However, the factory should always be consulted prior to operating at higher temperatures as damage may occur to oil seals and other components.

Mounting Positions For Double Reduction Models Only

The variety of mounting possibilities for double-reduction drives makes it impractical to illustrate positions for these models. In general, the vent filler is at the uppermost plug position, and the drain plug at the lowest possible position. The oil level must be at the approximate centerline of the uppermost gear, with the lower box completely full.

The first and second reduction housings are open to one another allowing free flow of lubricant. Levels should be checked frequently on new installation to assure proper levels are maintained.

WARNING: The lubricant will flow between the large gearbox and the small gearbox. When filling with oil, make sure both gearboxes are full to the correct/same level. It is strongly recommended the oil level in each gearbox is verified after a short run.

WARNING: Different oil types should not be mixed. For example Klubersynth UH1 6-460 is not compatible with Mobil SHC634.

700 Series Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

Output RPM	Ratio#	Non-Flanged Reducers				Gearmotor								Motors**
		Gear Capacity				Ratings			Available Styles†					Cat. Nos.
		Output Torque (lb.in.)	HP		Size*	Motor HP	Output Torque (lb.in.)	Service Class	F	QC	HF	SF	HQC	Bore Code	230/460 VAC 3 Phase 60 Hz
			Input	Output											
17.5	100 TO 1	275	.16	.076	**W713-100**	**1/6** **1/6**	275 275	I I						B4 B5	ACUT CUTF
		570	.23	.16	**W718-100**	**1/4** **1/4** **1/6** **1/6**	570 570 414 414	I I II II						B4 B5 B4 B5	ADUTF DUTF ACUT CUTF
		910	.41	.25	**W721-100**	**1/2** **1/3** **1/4** **1/6**	910 750 585 390	I II II III						B5 B5 B5 B5	FUTF EUTF DUTF CUTF
		1785	.75	.50	**W726-100**	**3/4** **1/2** **1/3**	1785 1206 804	I II III						B5 B5 B5	GUTF FUTF EUTF
		3250	1.24	.90	**W730-100**	**1** **3/4** **1/2**	2844 2138 1426	I II III						B5 B5 B5	HUTF-5/8 GUTF FUTF
		3450	1.33	.96	**W732-100**	**1-1/2** **1** **3/4**	3450 2592 1944	I II III						B7 B5 B5	JUTF HUTF-5/8 GUTF
		4910	1.84	1.36	**W738-100**	**2** **1-1/2** **1**	4910 3995 2664	I II III						B7 B7 B7	KUTF JUTF HUTF
		8000	2.97	2.22	**W752-100**	**3** **2** **1-1/2**	8000 5400 4050	I II III						B9 B7 B7	LUTF KUTF JUTF
		16500	5.75	4.58	**W760-100**	**5** **3**	14200 8500	I III						B9 B9	MUTF LUTF
11.7	150 TO 1	280	.13	.052	**W713-150**	**1/6** **1/6**	280 280	I I						B4 B5	ACUT CUTF
		580	.23	.11	**W718-150**	**1/4** **1/4** **1/6** **1/6**	580 580 433 433	I I II II						B4 B5 B4 B5	ADUTF DUTF ACUT CUTF
		940	.30	.17	**W721-150**	**1/3** **1/4** **1/6**	940 770 513	I II III						B5 B5 B5	EUTF DUTF CUTF
		1840	.56	.34	**W726-150**	**3/4** **1/2** **1/3** **1/4**	1840 1647 1095 823	I I II III						B5 B5 B5 B5	GUTF FUTF EUTF DUTF
		3523	.98	.65	**W730-150**	**3/4** **1/2**	2592 1728	II III						B5 B5	GUTF FUTF
		3600	1.00	.67	**W732-150**	**1** **3/4** **1/2**	3600 2713 1800	I II III						B5 B5 B5	HUTF-5/8 GUTF FUTF

* Add “A” (for PARALLEL SHAFTS) or “C” (for RIGHT ANGLE SHAFTS) after “W” in Model Numbers. See Numbering System, Page 70.
** Totally Enclosed, Fan Cooled. For complete motor Catalog Numbers and additional motors, see Pages 337 and 340.
† Shaded areas denote which styles are available for a given center distance and ratio.
# Other ratios avialable. Contact factory for information.

B

700 Series Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

Output RPM	Ratio#	Non-Flanged Reducers				Gearmotor								Motors**
		Gear Capacity				Ratings			Available Styles†					Cat. Nos.
		Output Torque (lb.in.)	HP		Size*	Motor HP	Output Torque (lb.in.)	Service Class	F	QC	HF	SF	HQC	Bore Code	230/460 VAC 3 Phase 60 Hz
			Input	Output											
11.7	150 TO 1	5100	1.35	.94	**W738-150**	**1-1/2** **1** **3/4**	5100 3725 2974	I II III						B7 B7 B5	JUTF HUTF GUTF
		11750	2.99	2.18	**W752-150**	**3** **2** **1-1/2**	11750 7884 5913	I II III						B9 B7 B7	LUTF KUTF JUTF
		17000	4.22	3.15	**W760-150**	**5** **3** **2**	17000 11200 7992	I II III						B9 B9 B9	MUTF LUTF KUTF
8.8	200 TO 1	320	.12	.045	**W713-200**	**1/6** **1/6**	320 320	I I						B4 B5	ACUT CUTF
		660	.19	.09	**W718-200**	**1/4** **1/4**	660 660	I I						B4 B5	ADUTF DUTF
		990	.25	.14	**W721-200**	**1/4** **1/6**	990 720	I II						B5 B5	DUTF CUTF
		1875	.47	.26	**W726-200**	**1/2** **1/3** **1/4**	1875 1440 1080	I II III						B5 B5 B5	FUTF EUTF DUTF
		3477	.76	.48	**W730-200**	**3/4** **1/2** **1/4**	3402 2268 1134	I III III						B5 B5 B5	GUTF FUTF DUTF
		3800	.81	.53	**W732-200**	**3/4** **1/2** **1/3**	3510 2340 1560	I II III						B5 B5 B5	GUTF FUTF EUTF
		5500	1.14	.77	**W738-200**	**1** **3/4** **1/2**	4824 3618 2412	I II III						B5 B5 B5	HUTF-5/8 GUTF FUTF
		12250	2.40	1.70	**W752-200**	**3** **2** **1**	12250 10080 5040	I II III						B9 B7 B5	LUTF KUTF HUTF-5/8
		18000	3.43	2.50	**W760-200**	**5** **3** **2** **1-1/2**	18000 15768 10512 7884	I I II III						B9 B9 B7 B7	MUTF LUTF KUTF JUTF
5.8	300 TO 1	335	.10	.031	**W713-300**	**1/6** **1/6**	335 335	I I						B4 B5	ACUT CUTF
		690	.16	.063	**W718-300**	**1/6** **1/6**	690 690	I I						B4 B5	ACUT CUTF
		1025	.20	.094	**W721-300**	**1/4** **1/6**	1025 900	I I						B5 B5	DUTF CUTF
		1950	.37	.18	**W726-300**	**1/3** **1/4** **1/6**	1800 1350 900	I II III						B5 B5 B5	EUTF DUTF CUTF
		3612	.57	.33	**W730-300**	**1/2** **1/3** **1/4**	3132 2088 1566	I II III						B5 B5 B5	FUTF EUTF DUTF
		3950	.61	.36	**W732-300**	**3/4** **1/2** **1/3**	3950 2700 1800	I II III						B5 B5 B5	GUTF FUTF EUTF

* Add “A” (for PARALLEL SHAFTS) or “C” (for RIGHT ANGLE SHAFTS) after “W” in Model Numbers. See Numbering System, Page 70.
** Totally Enclosed, Fan Cooled. For complete motor Catalog Numbers and additional motors, see Pages 337 and 340.
† Shaded areas denote which styles are available for a given center distance and ratio.
# Other ratios avialable. Contact factory for information.

700 Series Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

Output RPM	Ratio#	Non-Flanged Reducers				Gearmotor								Motors**
		Gear Capacity				Ratings			Available Styles†					Cat. Nos.
		Output Torque (lb.in.)	HP		Size*	Motor HP	Output Torque (lb.in.)	Service Class	F	QC	HF	SF	HQC	Bore Code	230/460 VAC 3 Phase 60 Hz
			Input	Output											
5.8	300 TO 1	5800	.84	.53	**W738-300**	**1** **3/4** **1/2**	5800 4050 2700	I II III						B5 B5 B5	HUTF-5/8 GUTF FUTF
		12500	1.72	1.15	**W752-300**	**2** **1-1/2** **1**	12500 10850 7236	I II III						B7 B7 B5	KUTF JUTF HUTF-5/8
		18500	2.45	1.70	**W760-300**	**3** **2** **1-1/2** **1**	18500 14904 11180 7452	I II II III						B9 B7 B7 B5	LUTF KUTF JUTF HUTF
4.4	400 TO 1	330	.089	.023	**W713-400**	**1/6** **1/6**	330 330	I I						B4 B5	ACUT CUTF
		690	.12	.048	**W718-400**	**1/6** **1/6**	360 360	II II						B4 B5	ACUT CUTF
		1025	.17	.071	**W721-400**	**1/6**	984	I						B5	CUTF
		1950	.31	.14	**W726-400**	**1/4** **1/6**	1620 1080	I III						B5 B5	DUTF CUTF
		3602	.40	.25	**W730-400**	**1/3** **1/4** **1/6**	2856 2142 1428	I II III						B5 B5 B5	EUTF DUTF CUTF
		3900	.48	.27	**W732-400**	**1/2** **1/3** **1/4**	3900 2688 2016	I II III						B5 B5 B5	FUTF EUTF DUTF
		5700	.66	.40	**W738-400**	**3/4** **1/2** **1/3**	5700 4320 2880	I II III						B5 B5 B5	GUTF FUTF EUTF
		12600	1.39	.88	**W752-400**	**1-1/2** **1** **3/4**	12610 9072 6804	I II III						B7 B5 B5	JUTF HUTF-5/8 GUTF
		18430	1.94	1.29	**W760-400**	**2** **1-1/2** **1**	18430 13824 9216	I II II						B7 B7 B7	KUTF JUTF HUTF
2.9	600 TO 1	340	.081	.016	**W713-600**	**1/6** **1/6**	340 340	I I						B4 B5	ACUT CUTF
		710	.095	.032	**W718-600**	**1/6** **1/6**	710 710	I I						B4 B5	ACUT CUTF
		1025	.13	.047	**W721-600**	**1/6**	1025	I						B5	CUTF
		2000	.25	.092	**W726-600**	**1/4** **1/6**	2000 1332	I II						B5 B5	DUTF CUTF
		3717	.32	.17	**W730-600**	**1/4** **1/6**	2862 1908	II III						B5 B5	DUTF EUTF
		4025	.36	.18	**W732-600**	**1/3** **1/4** **1/6**	3600 2700 1800	I II III						B5 B5 B5	EUTF DUTF CUTF

* Add "A" (for PARALLEL SHAFTS) or "C" (for RIGHT ANGLE SHAFTS) after "W" in Model Numbers. See Numbering System, Page 70.
** Totally Enclosed, Fan Cooled. For complete motor Catalog Numbers and additional motors, see Pages 337 and 340.
† Shaded areas denote which styles are available for a given center distance and ratio.
# Other ratios avialable. Contact factory for information.

B

700 Series Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

Output RPM	Ratio#	Non-Flanged Reducers				Gearmotor								Motors**
		Gear Capacity				Ratings			Available Styles†					Cat. Nos.
		Output Torque (lb.in.)	HP		Size*	Motor HP	Output Torque (lb.in.)	Service Class	F	QC	HF	SF	HQC	Bore Code	230/460 VAC 3 Phase 60 Hz
			Input	Output											
2.9	600 TO 1	5900	.49	.27	**W738-600**	**1/2** **1/3** **1/4**	5900 3960 2970	I II III						B5 B5 B5	FUTF EUTF DUTF
		13000	1.00	.60	**W752-600**	**1** **3/4** **1/2**	13000 9720 6480	I II III						B5 B5 B5	HUTF-5/8 GUTF FUTF
		19000	1.40	.88	**W760-600**	**1-1/2** **1** **3/4**	19000 13608 10206	I II III						B7 B7 B7	JUTF HUTF GUTF
1.9	900 TO 1	340	.071	.010	**W713-900**	**1/6** **1/6**	340 340	I I						B4 B5	ACUT CUTF
		710	.079	.021	**W718-900**	**1/6** **1/6**	710 710	I I						B4 B5	ACUT CUTF
		1050	.11	.032	**W721-900**	**1/6**	1050	I						B5	CUTF
		2000	.21	.06	**W726-900**	**1/6**	2000	I						B5	CUTF
		3752	.23	.11	**W730-900**	**1/6**	2700	II						B5	CUTF
		4025	.28	.12	**W732-900**	**1/4** **1/6**	3483 2322	I III						B5 B5	DUTF CUTF
		5900	.37	.18	**W738-900**	**1/2** **1/3** **1/4** **1/6**	5900 5292 3969 2646	I I II III						B5 B5 B5 B5	FUTF EUTF DUTF CUTF
		13000	.74	.40	**W752-900**	**3/4** **1/2** **1/3**	13000 8748 5832	I II III						B5 B5 B5	GUTF FUTF EUTF
		19000	1.00	.59	**W760-900**	**1** **3/4** **1/2**	19000 14337 9558	I II III						B5 B5 B5	HUTF-5/8 GUTF FUTF
1.5	1200 TO 1	330	.068	.008	**W713-1200**	**1/6** **1/6**	330 330	I I						B4 B5	ACUT CUTF
		690	.071	.016	**W718-1200**	**1/6** **1/6**	690 690	I I						B4 B5	ACUT CUTF
		1025	.10	.024	**W721-1200**	**1/6**	1025	I						B5	CUTF
		1950	.19	.045	**W726-1200**	**1/6**	1728	I						B5	CUTF
		3650	.19	.084	**W730-1200**	**1/6**	3168	I						B5	CUTF
		3900	.23	.092	**W732-1200**	**1/4** **1/6**	3900 2880	I II						B5 B5	DUTF CUTF
		5700	.31	.13	**W738-1200**	**1/3** **1/4** **1/6**	5700 4536 3024	I II III						B5 B5 B5	EUT DUTF CUTF
		12610	.62	.29	**W752-1200**	**3/4** **1/2** **1/3**	12610 10152 6768	I II III						B5 B5 B5	GUTF FUTF EUTF

* Add "A" (for PARALLEL SHAFTS) or "C" (for RIGHT ANGLE SHAFTS) after "W" in Model Numbers. See Numbering System, Page 70.
** Totally Enclosed, Fan Cooled. For complete motor Catalog Numbers and additional motors, see Pages 337 and 340.
† Shaded areas denote which styles are available for a given center distance and ratio.
# Other ratios avialable. Contact factory for information.

700 Series Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

Output RPM	Ratio#	Non-Flanged Reducers				Gearmotor								Motors**
		Gear Capacity				Ratings			Available Styles†					Cat. Nos.
		Output Torque (lb.in.)	HP		Size*	Motor HP	Output Torque (lb.in.)	Service Class	F	QC	HF	SF	HQC	Bore Code	230/460 VAC 3 Phase 60 Hz
			Input	Output											
1.5	1200 TO 1	18430	.81	.43	**W760-1200**	**1** **3/4** **1/2** **1/3**	18430 17172 11448 7632	I II II III						B5 B5 B5 B5	HUTF-5/8 GUTF FUTF EUTF
.97	1800 to 1	900	.082	.013	**W721-1800**	**1/6**	900	I						B5	CUTF
		1775	.16	.027	**W726-1800**	**1/6**	1775	I						B5	CUTF
		3650	.14	.056	**W730-1800**	**1/6**	2880	II						B5	CUTF
		3750	.19	.058	**W732-1800**	**1/6**	3240	I						B5	CUTF
		5400	.24	.083	**W738-1800**	**1/4** **1/6**	5400 3672	I II						B5 B5	DUTF CUTF
		11760	.47	.18	**W752-1800**	**1/2** **1/3** **1/4**	11760 8208 6156	I II III						B5 B5 B5	FUTF EUTF DUTF
		17280	.59	.27	**W760-1800**	**1/2** **1/3**	14900 9936	I III						B5 B5	FUTF EUTF
.88	2000 TO 1	590	.052	.008	**W718-2000**	**1/6**	590	I						B4 B5	ACUT CUTF
		1940	.16	.027	**W726-2000**	**1/6**	1940	I						B5	CUTF
		3600	.13	.055	**W730-2000**	**1/6**	3243	I						B5	CUTF
		3880	.22	.054	**W732-2000**	**1/6**	3600	I						B5	CUTF
		12610	.50	.18	**W752-2000**	**1/2** **1/3** **1/4**	12610 8810 5985	I II III						B5 B5 B5	FUTF EUTF DUTF
		18430	.66	.26	**W760-2000**	**1/2**	14400	II						B5	FUTF
.73	2400 TO 1	900	.053	.010	**W721-2400**	**1/6**	900	I						B5	CUTF
		3600	.11	.042	**W730-2400**	**1/6**	3128	I						B5	CUTF
		5725	.22	.066	**W738-2400**	**1/4** **1/6**	5725 4320	I II						B5 B5	DUTF CUTF
.58	3000 TO 1	1868	.05	.017	**W726-3000**	**1/6**	1800	I						B5	CUTF
		3500	.092	.033	**W730-3000**	**1/6**	3135	I						B5	CUTF
		3750	.14	.035	**W732-3000**	**1/6**	3750	I						B5	CUTF
		11760	.34	.11	**W752-3000**	**1/3** **1/4** **1/6**	11760 8640 5760	I II III						B5 B5 B5	EUTF DUTF CUTF
		17280	.41	.16	**W760-3000**	**1/2** **1/3** **1/4**	17280 12270 8640	I II III						B5 B5 B5	FUTF EUTF DUTF
.49	3600 TO 1	3400	.082	.026	**W730-3600**	**1/6**	3140	I						B5	CUTF
		5400	.17	.041	**W738-3600**	**1/6**	5400	I						B5	CUTF

* Add "A" (for PARALLEL SHAFTS) or "C" (for RIGHT ANGLE SHAFTS) after "W" in Model Numbers. See Numbering System, Page 70.
** Totally Enclosed, Fan Cooled. For complete motor Catalog Numbers and additional motors, see Pages 337 and 340.
† Shaded areas denote which styles are available for a given center distance and ratio.
# Other ratios avialable. Contact factory for information.

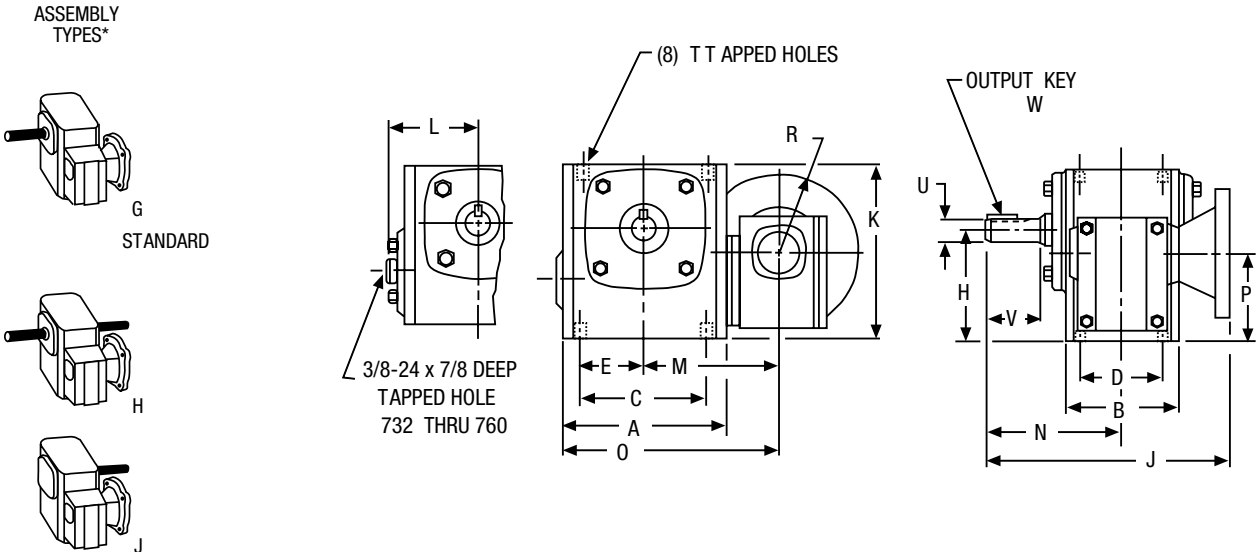
700 Series Double Reduction Flanged Reducer Dimensions

FWA700/QCWA700 Series Flanged Quill/Flanged Coupling Types

Basic Models (No Base); Parallel Shafts

FOR ORDERING INFORMATION, see Page 56.

FOR RATING INFORMATION, See Pages 71, 77-81.



ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	H	J-NEMA Mounting						K	L	M	N	O
							FWA700			QCWA700							
							42CZ	56C 140TC	180TC 210C	42CZ	56C 140TC	180TC 210C					
713	4.25	2.88	3.25	2.00	1.63	2.94	7.16	7.97	—	7.63	8.59	—	4.66	—	3.75	4.00	5.88
718	5.50	3.69	4.19	2.75	2.09	3.69	7.47	8.28	—	7.83	8.79	—	5.75	—	4.44	4.31	7.19
721	6.00	3.81	5.00	2.88	2.50	4.09	—	8.66	—	—	10.73	—	6.38	—	4.94	4.69	7.94
726	7.38	4.44	6.38	3.38	3.19	5.06	—	9.60	—	—	10.14	—	8.00	—	5.66	5.63	9.35
730	8.12	5.25	7.00	4.00	3.50	5.63	—	11.44	—	—	12.20	—	8.88	—	6.12	6.75	10.18
732	9.00	5.88	7.50	4.00	3.75	5.88	—	11.75	—	—	12.51	—	9.38	4.94	6.48	7.06	11.00
738	10.00	6.38	8.50	4.75	4.25	6.56	—	12.81	—	—	13.48	—	10.44	5.50	7.27	7.75	12.27
752	13.13	7.38	11.00	5.81	5.50	8.44	—	14.81	15.25	—	16.45	17.37	13.75	7.19	9.28	9.06	15.84
760	14.50	8.13	12.75	6.38	6.38	10.00	—	—	—	—	18.20	19.13	16.50	7.94	9.56	10.00	16.81

Size	P	R-NEMA Mounting			T		Low Speed Shaft				Approx. Weight (Lbs.)		Horizontal Base Kit No. †
		42CZ	56C 140TC	180TC	Tap Size	Depth	U +.000 -.001	V	W-Key Sq.	W-Key Length	FWA	QCWA	
713	2.59	2.16	3.31	—	5/16-18	.50	.625	2.00	3/16	1	16	18	56577
718	2.94	2.16	3.31	—	5/16-18	.50	.875	1.78	3/16	1	27	30	56585
721	3.38	—	3.31	—	3/8-16	.56	1.000	2.09	1/4	1-1/4	37	39	56440
726	3.78	—	3.31	—	3/8-16	.56	1.125	2.62	1/4	1-15/16	62	62	56595
730	4.38	—	3.31	—	7/16-14	.88	1.250	3.25	1/4	2-1/4	85	91	65544
732	4.38	—	3.31	—	7/16-14	.66	1.375	3.25	5/16	2-7/16	104	119	56599
738	4.88	—	3.31	—	1/2-13	.75	1.625	3.50	3/8	2-1/4	142	158	56603
752	5.88	—	3.31	4.63	5/8-11	1.00	2.000	4.16	1/2	2-15/16	247	267	56607
760	7.25	—	3.31	4.63	5/8-11	1.00	2.250	4.56	1/2	3-3/8	—	340	56610

* See Assemblies and Mounting Positions, Page 72.
† For Base Kits, see Page 129.
Note: For base dimensions see Single Reduction Flanged Reducer Dimension pages.

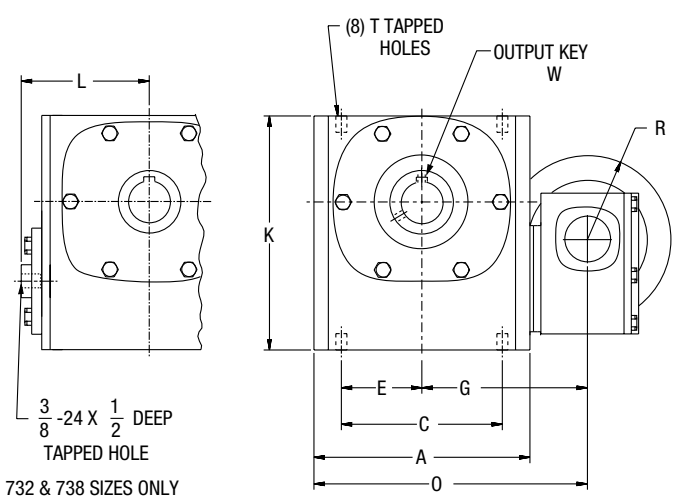
700 Series Double Reduction Flanged Reducer Dimensions

HFWA700/HQCWA700 Series Flanged Quill/Flanged Coupling Types

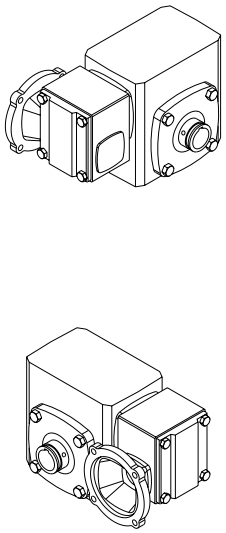
Basic Models (No Base); Parallel Shafts; Bored to Size Hollow Output

FOR ORDERING INFORMATION, see Page 56.

FOR RATING INFORMATION, See Pages 71, 77-81.



ASSEMBLY TYPES*



B

ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H	J-NEMA Mounting FWA700 42CZ	J-NEMA Mounting FWA700 56C 140TC	J-NEMA Mounting QCWA700 42CZ	J-NEMA Mounting QCWA700 56C 140TC	K	L	N
713	4.25	2.88	3.25	2.00	1.63	1.00	3.75	2.94	3.16	3.94	4.15	5.01	4.66	—	2.50
718	5.50	3.69	4.19	2.75	2.09	1.38	4.44	3.69	3.16	3.94	4.15	5.01	5.75	—	3.03
721	6.00	3.81	5.00	2.88	2.50	1.44	4.94	4.09	—	3.94	—	5.46	6.38	—	3.22
726	7.38	4.44	6.38	3.38	3.19	1.69	5.66	5.06	—	3.94	—	5.46	8.00	—	3.44
730	8.12	5.25	7.00	4.00	3.50	2.00	6.12	5.63	—	4.69	—	6.29	8.88	—	4.19
732	9.00	5.88	7.50	4.00	3.75	2.00	6.48	5.88	—	4.69	—	6.29	9.38	4.94	4.31
738	10.00	6.38	8.50	4.75	4.25	2.38	7.27	6.56	—	5.06	—	6.76	10.44	5.50	4.81

Size	O	P	Q	R-NEMA Mounting 42CZ	R-NEMA Mounting 56C 140TC	S	T Tap Size	T Depth	Low Speed Shaft Max U +.0015 -.0000	Low Speed Shaft V	Low Speed Shaft W-Key Sq.	Low Speed Shaft W-Key Length	Approx. Weight (LBS.) HFWA	Approx. Weight (LBS.) HQCWA
713	5.88	2.59	#10-32	2.16	3.31	.88	5/16-18	.50	.625	.68			17	19
718	7.19	2.94	#10-32	2.16	3.31	1.38	5/16-18	.50	1.000	.74			27	31
721	7.94	3.38	1/4-28	—	3.31	1.94	3/8-16	.56	1.4375	.87	See Page		37	39
726	9.35	3.78	5/16-24	—	3.31	2.50	3/8-16	.56	1.9375	.78	128 For		60	67
730	10.18	4.38	5/16-24	—	3.31	2.88	7/16-14	.88	2.1875	1.11	Key Information		82	95
732	11.00	4.38	5/16-24	—	3.31	2.88	7/16-14	.66	2.1875	.93			104	121
738	12.27	4.88	5/16-24	—	3.31	3.25	1/2-13	.75	2.4375	1.11			149	166

* See Assemblies and Mounting Positions, Page 72.
Input may be rotated clockwise or counterclockwise.
Note: For base dimensions see Single Reduction Flanged Reducer Dimension pages. See Page 128 for available bore sizes.

700 Series Double Reduction Flanged Reducer Dimensions

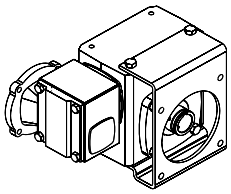
HFWA700/HQCWA700 Series Flanged Quill/Flanged Coupling Types

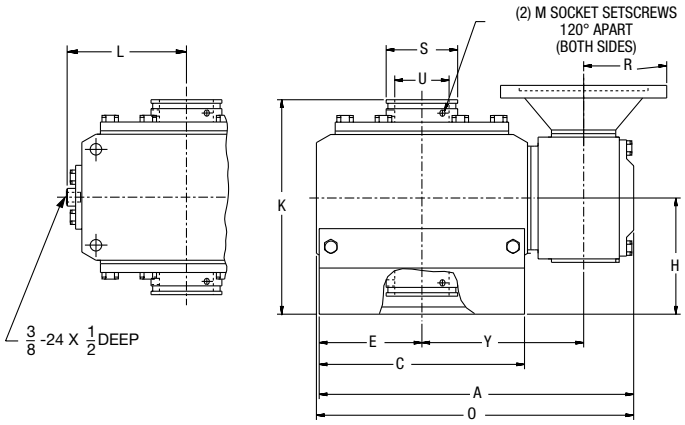
R Position Mounting Bracket; Parallel Shafts; Bored to Size Hollow Output

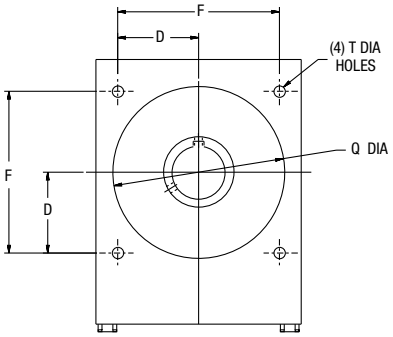
FOR ORDERING INFORMATION, see Page 56.

FOR RATING INFORMATION, See Pages 71, 77-81.

ASSEMBLY TYPES*







ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H	J-NEMA Mounting HFWA700 42CZ	J-NEMA Mounting HFWA700 56C 140TC	J-NEMA Mounting HQCWA700 42CZ	J-NEMA Mounting HQCWA700 56C 140TC	K	L	M	N
713	7.40	5.55	4.25	1.77	2.12	3.54	.19	3.00	3.16	3.94	4.15	5.01	5.50	—	#10-32	2.50
718	8.38	6.66	4.81	2.08	2.41	4.16	.19	3.50	3.16	3.94	4.15	5.01	6.53	—	#10-32	3.03
721	9.57	7.47	5.75	2.30	2.88	4.60	.19	3.75	—	3.94	—	5.46	6.97	—	1/4-28	3.22
726	11.00	9.25	7.18	2.83	3.59	5.66	.25	4.06	—	3.94	—	5.46	7.50	—	5/16-24	3.44
730	12.39	10.38	8.00	3.18	4.00	6.36	.25	4.50	—	4.69	—	6.29	8.69	—	5/16-24	4.19
732	13.44	10.91	8.50	3.54	4.25	7.08	.25	5.25	—	4.69	—	6.29	9.56	4.94	5/16-24	4.31
738	14.91	11.84	9.50	4.06	4.75	8.12	.25	5.47	—	5.06	—	6.76	10.28	5.50	5/16-24	4.81

Size	O	P	Q	R-NEMA Mounting 42CZ	R-NEMA Mounting 56C 140TC	S	T Holes	Low Speed Shaft Max U +.0015 -.0000	Low Speed Shaft V	Low Speed Shaft W-Key Size	Low Speed Shaft W-Key Length	Y	Approx. Weight (LBS.) HFWA	Approx. Weight (LBS.) HQCWA
713	7.41	.50	3.62	2.16	3.31	.88	11/32	.625	.68			3.75	18	20
718	8.72	.47	4.06	2.16	3.31	1.38	11/32	1.000	.74			4.44	30	36
721	9.69	.53	4.50	—	3.31	1.94	13/32	1.4375	.87	See Page		4.94	42	47
726	11.09	.62	6.00	—	3.31	2.50	13/32	1.9375	.78	128 For		5.66	56	80
730	12.45	.31	7.00	—	3.31	2.88	13/32	2.1875	1.10	Key Information		6.12	95	116
732	13.69	.94	7.00	—	3.31	2.88	9/16	2.1875	.93			6.48	134	151
738	15.16	.66	8.00	—	3.31	3.25	9/16	2.4375	1.11			7.27	178	200

* See Assemblies and Mounting Positions, Page 72.
See Page 128 for available bore sizes.
Input may be rotated clockwise or counterclockwise.

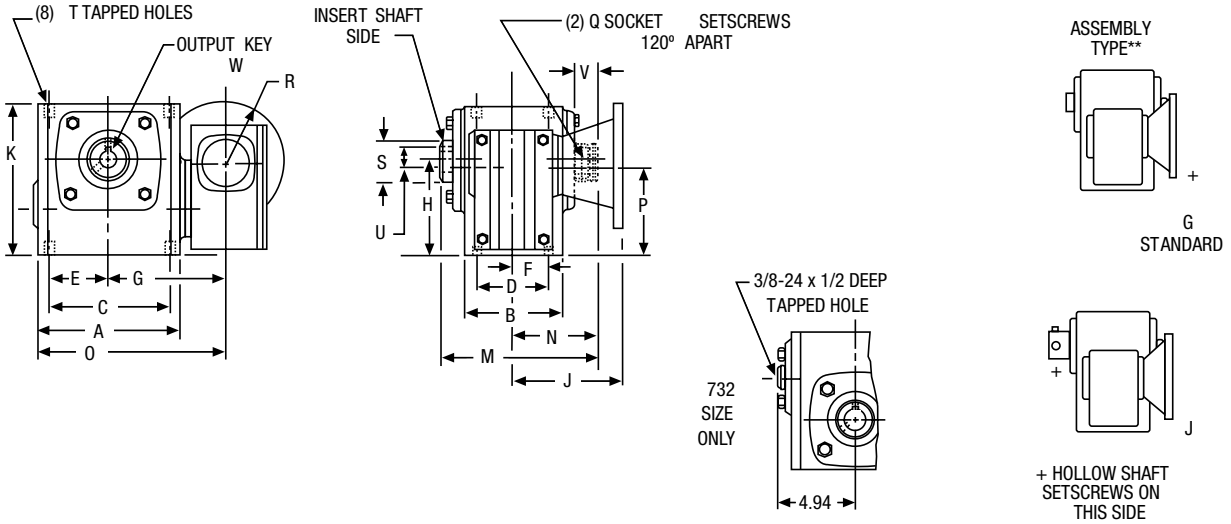
700 Series Double Reduction Flanged Reducer Dimensions

SFWA700 Series Flanged Quill Type

Basic Models (No Base); Parallel Shafts; Hollow Output

FOR ORDERING INFORMATION, see Page 56.

FOR ADDITIONAL SIZES, See the H Series Pages 88-89.
FOR RATING INFORMATION, See Pages 71, 77-81.



ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H	J-NEMA Mounting SFWA 42CZ	J-NEMA Mounting SFWA 56C 140TC	K	M	N
718	5.50	3.69	4.19	2.75	2.09	1.38	4.44	3.69	3.16	3.94	5.75	5.47	3.09
721	6.00	3.81	5.00	2.88	2.50	1.44	4.94	4.09	—	3.94	6.38	5.69	3.22
726	7.38	4.44	6.38	3.38	3.19	1.69	5.66	5.06	—	3.94	8.00	6.28	3.50
732	9.00	5.88	7.50	4.00	3.75	2.00	6.48	5.88	—	4.69	9.38	7.88	4.38

Size	O	P	Q	R-NEMA Mounting 42CZ	R-NEMA Mounting 56C 140TC	S	T Tap Size	T Depth	Low Speed Shaft U +.0015 -.000	Low Speed Shaft V	Low Speed Shaft W-Key Sq.	Low Speed Shaft W-Key Length	Approx. Weight (LBS.) SFWA
718	7.19	2.94	#10-32	2.16	3.31	1.38	5/16-18	.50	1.000	.78	See Page		26
721	7.94	3.38	1/4-28	—	3.31	1.50	3/8-16	.56	1.125	.88	128 For		35
726	9.34	3.78	1/4-28	—	3.31	2.16	3/8-16	.56	1.4375	.84	Key Information		57
732	11.00	4.38	5/16-24	—	3.31	2.56	7/16-14	.66	1.9375	1.00			99

** Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounted surfaces. Input may be rotated clockwise or counterclockwise.

Note: For base dimensions see Single Reduction Flanged Reducer Dimension pages.

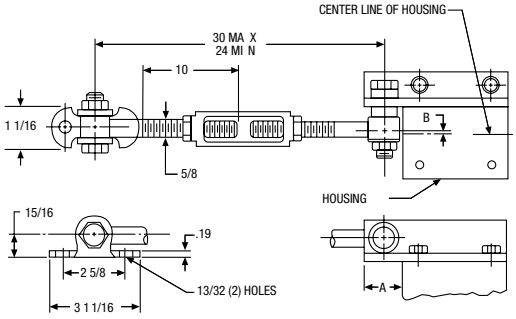
See Assemblies and Mounting Positions, Page 72.

Reaction Rod Kits

ALL DIMENSIONS IN INCHES

Size	A	B	Catalog Number	Kit No.
718	1.09	.09	X718-76K	69692
721	1.25	.03	X721-76K	69693
726	1.25	.22	X726-76K	69694
732	1.50	.53	X732-76K	69695

All hardware shown is included in the kits.



700 Series Double Reduction Flanged Reducer Dimensions

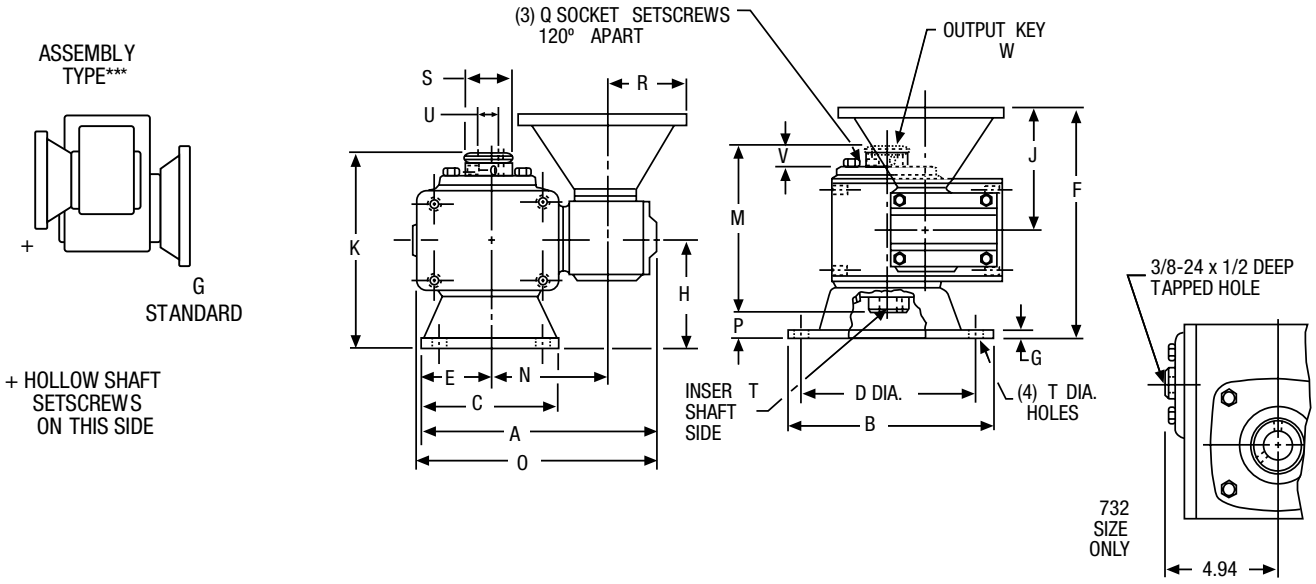
SFWA700 Series Flanged Quill Type

V Position Mounting Flange; Parallel Shafts; Hollow Output

FOR ORDERING INFORMATION, see Page 56.

FOR ADDITIONAL SIZES, See the H Series Pages 88-89.
FOR RATING INFORMATION, See Pages 71, 77-81.

B



ALL DIMENSIONS IN INCHES

Size	A	B	C	D DIA.	E	G	H	J-NEMA Mounting SFWA 42CZ	J-NEMA Mounting SFWA 56C 140TC	K	M	N
718	8.41	6.75	4.88	5.88	2.44	.38	3.50	3.16	3.94	6.59	5.69	4.44
721	9.56	7.38	5.75	6.50	2.88	.38	3.75	—	3.94	6.97	5.88	4.94
726	11.28	8.88	7.75	8.00	3.88	.38	4.06	—	3.94	7.56	6.47	5.66
732	13.25	11.00	9.00	10.00	4.50	.50	5.25	—	4.69	9.63	8.06	6.48

Size	O	P	Q	R-NEMA Mounting 42CZ	R-NEMA Mounting 56C 140TC	S	T Holes	Low Speed Shaft U +.0015 -.000	Low Speed Shaft V	Low Speed Shaft W-Key Size	Low Speed Shaft W-Key Length	Approx. Weight (LBS.) SFWA
718	8.72	.91	#10-32	2.16	3.31	1.38	11/32	1.000	.78	See Page		29
721	9.69	1.09	1/4-28	—	3.31	1.50	13/32	1.125	.88	128 For		40
726	11.09	1.09	1/4-28	—	3.31	2.16	13/32	1.4375	.84	Key Information		53
732	13.25	1.56	5/16-24	—	3.31	2.56	9/16	1.9375	1.00			128

*Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft. See Assemblies and Mounting Positions, Page 72.

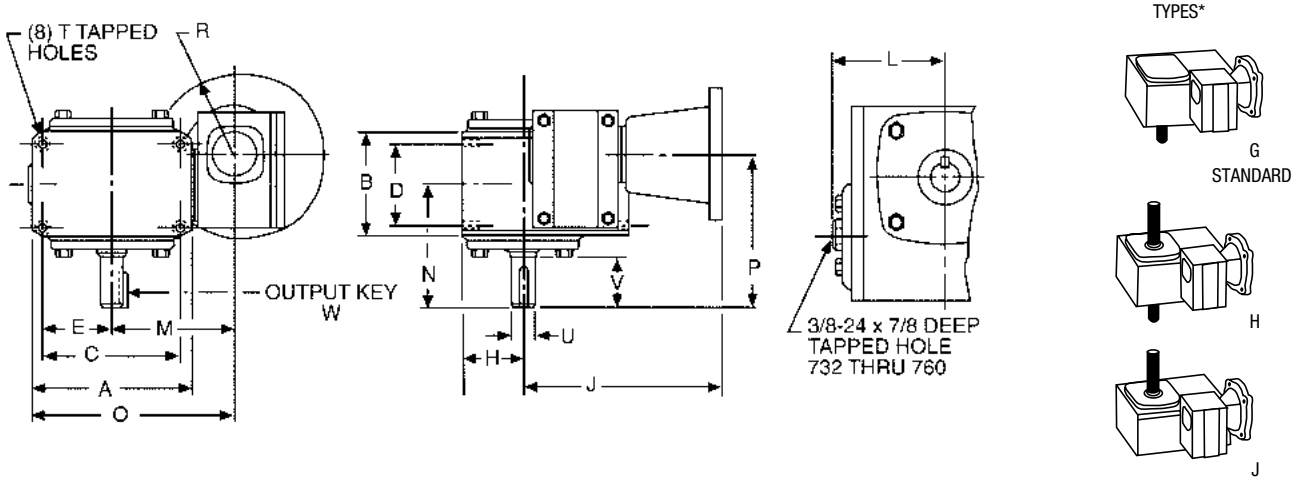
700 Series Double Reduction Flanged Reducer Dimensions

FWC700/QCWC700 Series Flanged Quill/Flanged Coupling Types

Basic Models (No Base); Right Angle Shafts

FOR ORDERING INFORMATION, see Page 56.

FOR RATING INFORMATION, See Pages 71, 77-81.



B

ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	H	J-NEMA Mounting						L	M	N	O
							FWC700			QCWC700						
							42CZ	56C 140TC	180TC 210C	42CZ	56C 140TC	180TC 210C				
713	4.25	2.88	3.25	2.00	1.63	1.72	4.49	5.30	—	5.48	6.35	—	—	3.75	4.00	5.88
718	5.50	3.69	4.19	2.75	2.09	2.06	4.91	5.72	—	5.90	6.76	—	—	4.44	4.31	7.19
721	6.00	3.81	5.00	2.88	2.50	2.28	—	6.00	—	—	7.52	—	—	4.94	4.69	7.94
726	7.38	4.44	6.38	3.38	3.19	2.94	—	6.56	—	—	9.22	—	—	5.66	5.63	9.35
730	8.12	5.25	7.00	4.00	3.50	3.25	—	7.69	—	—	9.29	—	—	6.12	6.75	10.18
732	9.00	5.88	7.50	4.00	3.75	3.50	—	7.94	—	—	9.54	—	4.94	6.48	7.06	10.98
738	10.00	6.38	8.50	4.75	4.25	3.88	—	8.81	—	—	10.51	—	5.50	7.27	7.75	12.27
752	13.13	7.38	11.00	5.81	5.50	5.31	—	11.00	11.34	—	12.64	13.55	7.19	9.28	9.06	15.84
760	14.50	8.12	12.75	6.38	6.38	6.50	—	—	—	—	14.70	15.12	7.94	9.56	10.00	16.81

Size	P	R-NEMA Mounting			T		Low Speed Shaft				Approx. Weight (LBS.)		Vertical Base Kit No. †	
							U +.000 -.001	V	W-Key					
		42CZ	56C 140TC	180TC 210C	Tap Size	Depth			Sq.	Length	FWA	QCWC	High	Low
713	5.00	2.16	3.31	—	5/16-18	.50	.625	2.00	3/16	1	16	18	56578	56579
718	5.31	2.16	3.31	—	5-16-18	.50	.875	1.78	3/16	1	27	30	56582	56583
721	6.03	—	3.31	—	3/8-16	.56	1.000	2.09	1/4	1-1/4	37	39	56588	56589
726	6.97	—	3.31	—	3/8-16	.56	1.125	2.62	1/4	1-15/16	62	62	56596	56597
730	8.50	—	3.31	—	7/16-14	.88	1.250	3.25	1/4	2-1/4	83	91	65545	65546
732	8.81	—	3.31	—	7/16-14	.66	1.375	3.25	5/16	2-7/16	103	119	56600	56601
738	9.81	—	3.31	—	1/2-13	.75	1.625	3.50	3/8	2-1/4	142	158	56604	56605
752	11.69	—	3.31	4.63	5/8-11	1.00	2.000	4.16	1/2	2-15/16	247	267	56608	56609
760	13.25	—	3.31	4.63	5/8-11	1.00	2.250	4.56	1/2	3-3/8	—	340	56611	56612

* See Assemblies and Mounting Positions, Page 73.

† For Base Kits, see Page 129 .

700 Series Double Reduction Flanged Reducer Dimensions

HFWC700/HQCWC700 Series Flanged Quill/Flanged Coupling Types

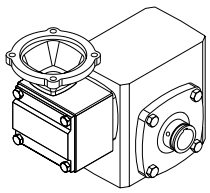
Basic Models (No Base); Right Angle Shafts; Bored to Size Hollow Output

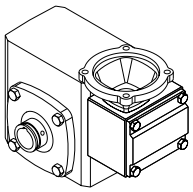
FOR ORDERING INFORMATION, see Page 56.

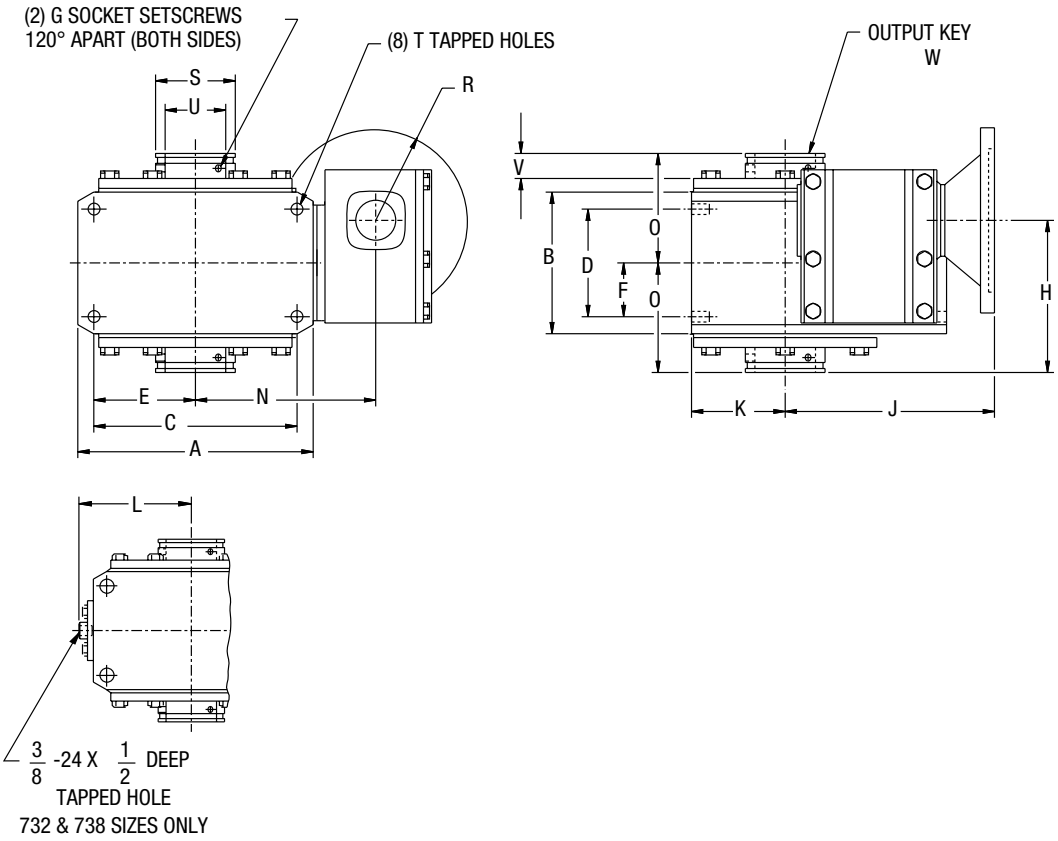
FOR RATING INFORMATION, See Pages 71, 77-81.

B

ASSEMBLY TYPES*







ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H	J-NEMA Mounting HFWC 42CZ	J-NEMA Mounting HFWC 56C 140TC	J-NEMA Mounting HQCWC 42CZ	J-NEMA Mounting HQCWC 56C 140TC	K	L
713	4.25	2.88	3.25	2.00	1.63	1.00	#10-32	3.50	4.49	5.30	5.48	6.35	1.72	—
718	5.50	3.69	4.19	2.75	2.09	1.38	#10-32	4.03	4.91	5.72	5.90	6.76	2.06	—
721	6.00	3.81	5.00	2.88	2.50	1.44	1/4-28	4.55	—	6.00	—	7.52	2.28	—
726	7.38	4.44	6.38	3.38	3.19	1.69	5/16-24	4.77	—	6.56	—	9.22	2.94	—
730	8.12	5.25	7.00	4.00	3.50	2.00	5/16-24	5.94	—	7.69	—	9.29	3.25	—
732	9.00	5.88	7.50	4.00	3.75	2.00	5/16-24	6.06	—	7.94	—	9.54	3.50	4.94
738	10.00	6.38	8.50	4.75	4.25	2.38	5/16-24	6.87	—	8.81	—	10.51	3.88	5.50

Size	N	O	R-NEMA Mounting 42CZ	R-NEMA Mounting 56C 140TC	S	T Tap Size	T Depth	Low Speed Shaft Max U +.0015 -.0000	Low Speed Shaft V	Low Speed Shaft W-Key Size	Low Speed Shaft W-Key Length	Approx. Weight (LBS.) HFWC	Approx. Weight (LBS.) HQCWC
713	3.75	2.50	2.16	3.31	.88	5/16-18	.50	.625	.68			17	19
718	4.44	3.03	2.16	3.31	1.38	5/16-18	.50	1.000	.74			27	31
721	4.94	3.22	—	3.31	1.94	3/8-16	.56	1.4375	.87	See Page		37	39
726	5.66	3.44	—	3.31	2.50	3/8-16	.56	1.9375	.78	128 For		60	67
730	6.12	4.19	—	3.31	2.88	7/16-14	.88	2.1875	1.10	Key Information		82	95
732	6.48	4.31	—	3.31	2.88	7/16-14	.66	2.1875	.93			104	121
738	7.27	4.81	—	3.31	3.25	1/2-13	.75	2.4375	1.11			149	166

* See Assemblies and Mounting Positions, Page 73.

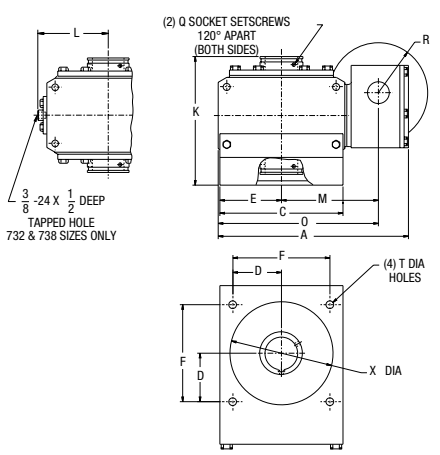
Note: For base dimensions see Single Reduction Flanged Reducer Dimension pages. See Page 128 for available bore sizes.

HFWC700/HQCWC700 Series Flanged Quill/Flanged Coupling Types

R/L Position Mounting Bracket; Right Angle Shafts; Bored to Size Hollow Output

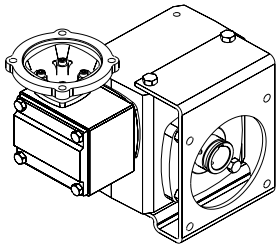
FOR ORDERING INFORMATION, see Page 56.

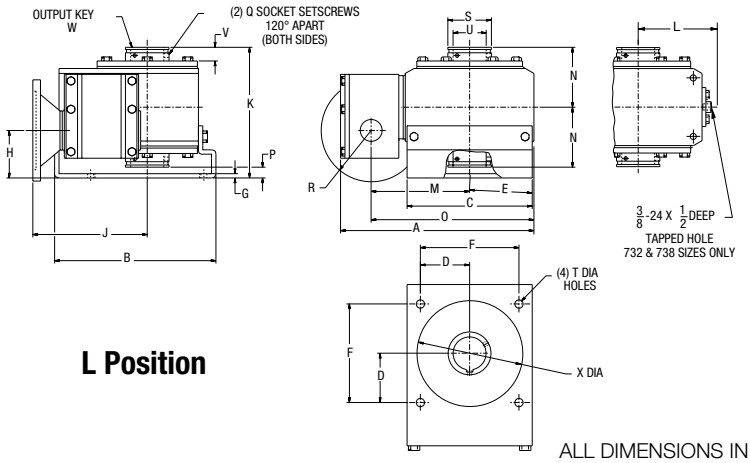
FOR RATING INFORMATION, See Pages 71, 77-81.



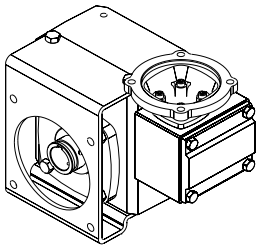
R Position

ASSEMBLY TYPES*





L Position



ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H R Model	H L Model	J-NEMA Mounting HFWC 42CZ	J-NEMA Mounting HFWC 56C 140TC	J-NEMA Mounting HQCWC 42CZ	J-NEMA Mounting HQCWC 56C 140TC	K	L	M
713	7.41	5.55	4.24	1.77	2.12	3.54	.19	4.00	2.00	4.49	5.30	5.48	6.35	5.50	—	3.75
718	8.72	6.66	5.00	2.08	2.41	4.16	.19	4.50	2.50	4.91	5.72	5.90	6.76	6.53	—	4.44
721	9.69	7.47	5.76	2.30	2.88	4.60	.19	5.08	2.42	—	6.00	—	7.52	6.97	—	4.94
726	11.09	9.25	7.18	2.83	3.59	5.66	.25	5.39	2.73	—	6.56	—	9.22	7.50	—	5.66
730	12.45	10.38	8.00	3.18	4.00	6.36	.25	6.25	2.75	—	7.69	—	9.29	8.69	—	6.12
732	13.69	10.91	8.50	3.54	4.25	7.08	.25	7.00	3.50	—	7.94	—	9.54	9.56	4.94	6.48
738	15.16	11.84	9.50	4.06	4.75	8.12	.25	7.53	3.41	—	8.81	—	10.51	10.28	5.50	7.27

Size	N	O	P	Q	R-NEMA Mounting 42CZ	R-NEMA Mounting 56C 140TC	S	T Holes	Low Speed Shaft Max U +.0015 -.0000	Low Speed Shaft V	Low Speed Shaft W-Key Size	Low Speed Shaft W-Key Length	X	Approx. Weight (LBS.) HFWC	Approx. Weight (LBS.) HQCWC
713	2.50	5.87	.50	#10-32	2.16	3.31	.88	11/32	.625	.68			3.62	18	20
718	3.03	7.19	.47	#10-32	2.16	3.31	1.38	11/32	1.000	.74			4.06	30	36
721	3.22	7.94	.53	1/4-28	—	3.31	1.94	13/32	1.4375	.87	See Page		4.50	42	47
726	3.44	9.35	.62	5/16-24	—	3.31	2.50	13/32	1.9375	.78	128 For		6.00	56	80
730	4.19	10.18	.31	5/16-24	—	3.31	2.88	13/32	2.1875	1.10	Key Information		7.00	95	116
732	4.31	10.98	.94	5/16-24	—	3.31	2.88	9/16	2.1875	.93			7.00	134	151
738	4.81	12.27	.66	5/16-24	—	3.31	3.25	9/16	2.4375	1.11			8.00	178	200

* See Assemblies and Mounting Positions, Page 73.

See Page 128 for available bore sizes.

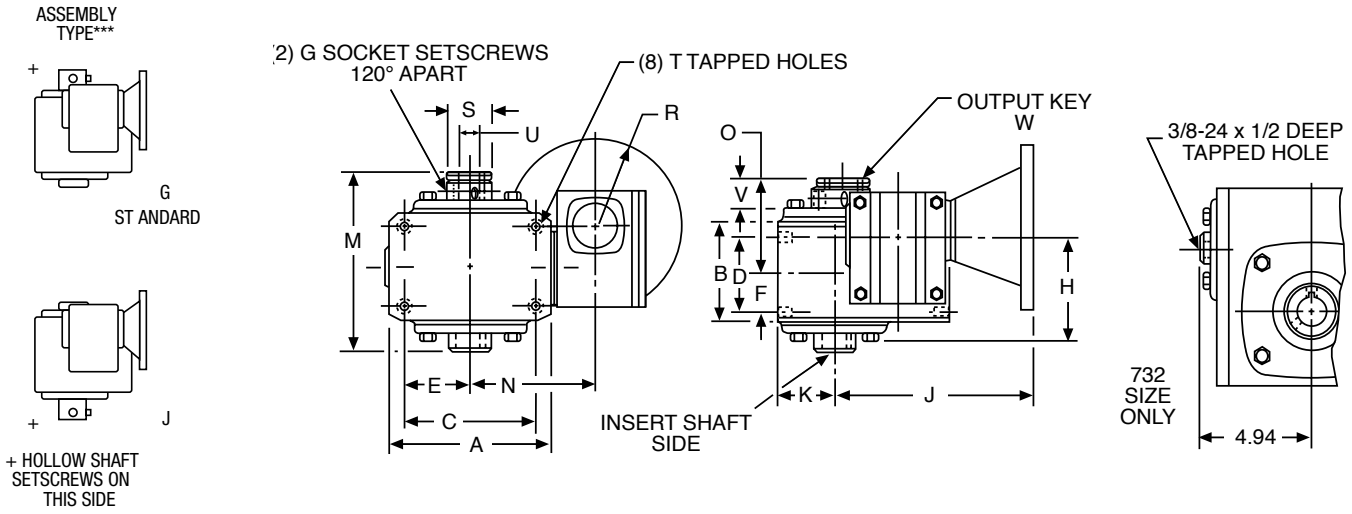
700 Series Double Reduction Flanged Reducer Dimensions

SFWC700 Series Flanged Quill Type

Basic Models (No Base); Right Angle Shafts; Hollow Output

FOR ORDERING INFORMATION, see Page 56.

FOR ADDITIONAL SIZES, See the H Series Pages 88-89.
FOR RATING INFORMATION, See Pages 71, 77-81.



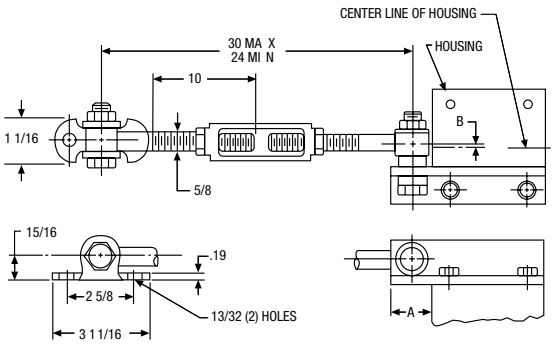
ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H	J-NEMA Mounting SFWC 42CZ	J-NEMA Mounting SFWC 56C 140TC	K	M
718	5.50	3.69	4.19	2.75	2.09	1.38	#10-32	3.50	4.91	5.69	2.06	5.69
721	6.00	3.81	5.00	2.88	2.50	1.44	1/4-28	3.94	—	6.00	2.28	5.88
726	7.38	4.44	6.38	3.38	3.19	1.69	1/4-28	4.25	—	6.56	2.94	6.47
732	9.00	5.88	7.50	4.00	3.75	2.00	5/16-24	5.34	—	7.94	3.50	8.06

Size	N	O	R-NEMA Mounting 42CZ	R-NEMA Mounting 56C 140TC	S	T Tap Size	T Depth	Low Speed Shaft U +.0015 -.000	Low Speed Shaft V	Low Speed Shaft W-Key Size	Low Speed Shaft W-Key Length	Approx. Weight (LBS.) SFWC
718	4.44	3.09	2.16	3.31	1.38	5/16-18	.50	1.000	.78	See Page		24
721	4.94	3.22	—	3.31	1.50	3/8-16	.56	1.125	.88	128 For		32
726	5.66	3.50	—	3.31	2.16	3/8-16	.56	1.4375	.84	Key Information		51
732	6.48	4.38	—	3.31	2.56	7/16-14	.66	1.9375	1.00			99

*See Assemblies and Mounting Positions, Page 73. Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft.

Reaction Rod Kits



ALL DIMENSIONS IN INCHES

Size	A	B	Catalog Number	Kit No.
718	1.09	.09	X718-76K	69692
721	1.25	.03	X721-76K	69693
726	1.25	.22	X726-76K	69694
732	1.50	.53	X732-76K	69695

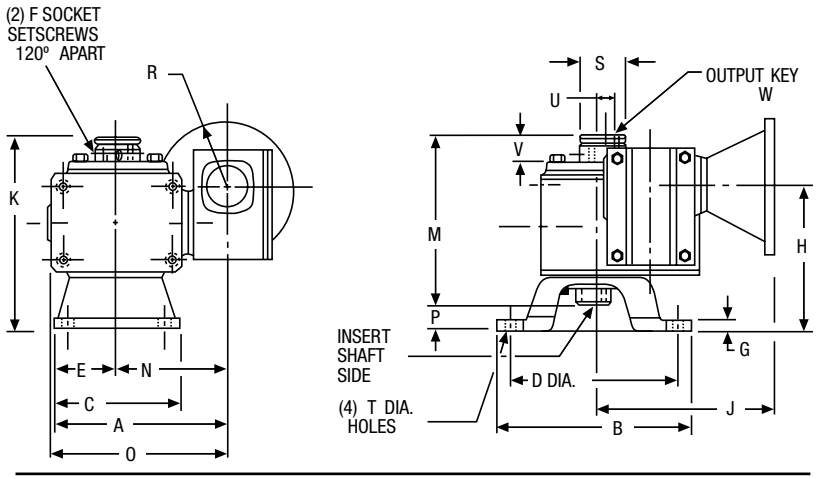
All hardware shown is included in the kits.

SFWC700 Series Flanged Quill Type

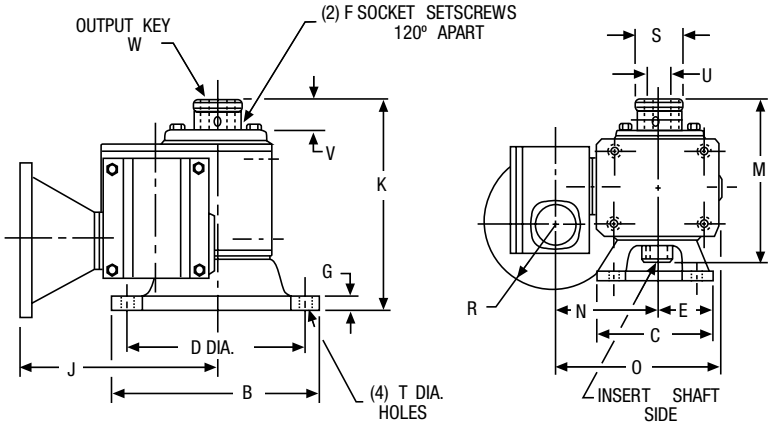
V/W Position Mounting Flange; Right Angle Shafts; Hollow Output

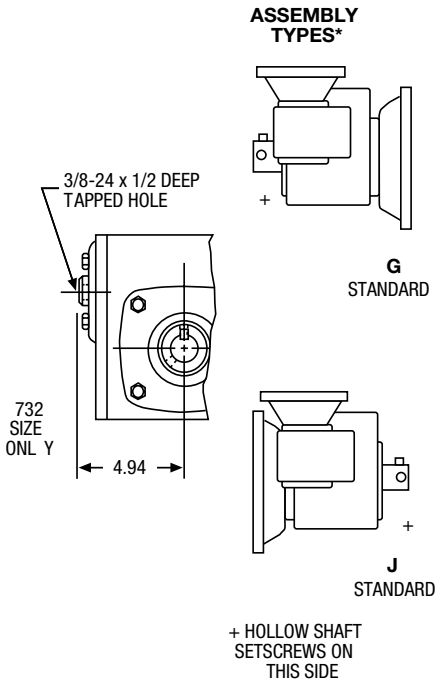
FOR ORDERING INFORMATION, see Page 56.
FOR ADDITIONAL SIZES, See the H Series Page 88-89.
FOR RATING INFORMATION, See Pages 71, 77-81.

V Position



W Position





ALL DIMENSIONS IN INCHES

SIZE	A	B	C	D DIA	E	F	G	H	J-NEMA Mounting SFWC 42CZ	J-NEMA Mounting SFWC 56C 140TC	K	M
718	6.88	6.75	4.88	5.88	2.44	#10-32	.38	4.50	4.91	5.69	6.59	5.69
721	7.81	7.38	5.75	6.50	2.88	1/4-28	.38	5.09	—	6.00	6.97	5.88
726	9.54	8.88	7.75	8.00	3.88	5/16-24	.38	5.41	—	6.56	7.56	6.47
732	11.00	11.00	9.00	10.00	4.50	5/16-24	.50	7.00	—	7.94	9.63	8.06

SIZE	N	O	P	R-NEMA Mounting 42CZ	R-NEMA Mounting 56C 140TC	S	T Hole	Low Speed Shaft U +.0015 -.000	Low Speed Shaft V	Low Speed Shaft W-KEY Size	Low Speed Shaft W-KEY Length	Approx. Weight (LBS.) SFWC
718	4.44	7.19	0.91	2.16	3.31	1.38	11/32	1.000	0.78			29
721	4.94	7.94	1.09	—	3.31	1.50	13/32	1.125	0.88	See Page		40
726	5.66	9.34	1.09	—	3.31	2.16	13/32	1.4375	0.84	128 For		53
732	6.48	11.00	1.56	—	3.31	2.56	9/16	1.9375	1.00	Key Information		128

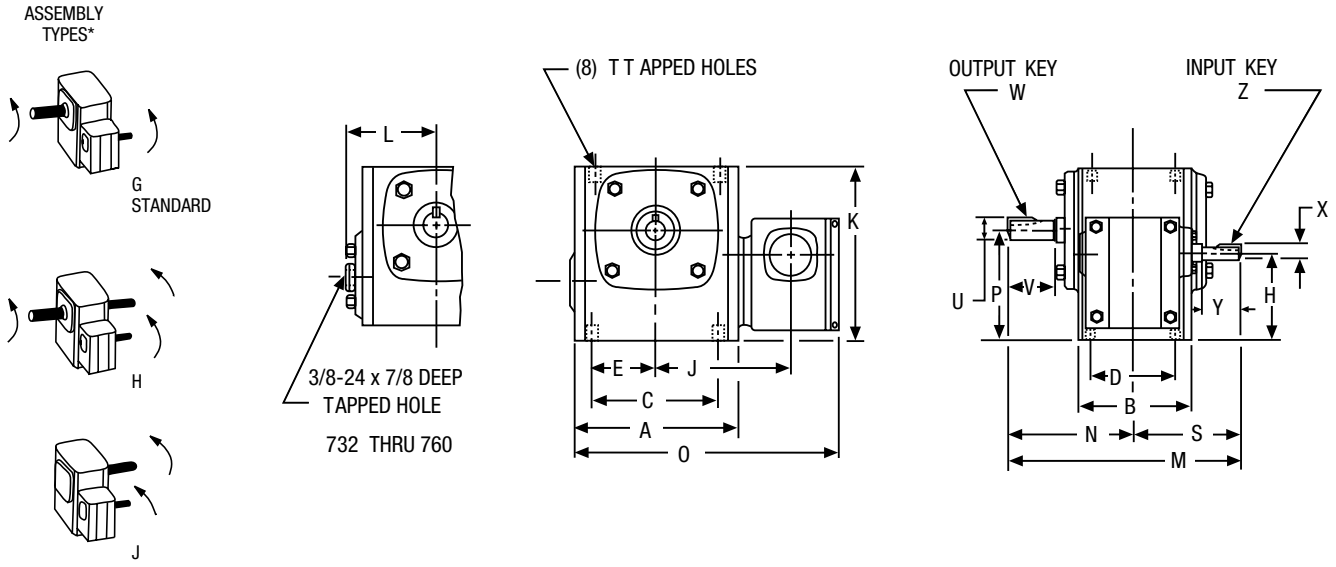
* See Assemblies and Mounting Positions, Page 73. Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft.

700 Series Double Reduction Non-Flanged Reducer Dimensions

WA700 Series

Basic Models (No Base); Parallel Shafts

FOR ORDERING INFORMATION, see Page 56.
FOR RATING INFORMATION, See Pages 71, 77-81.



ALL DIMENSIONS IN INCHES

SIZE	A	B	C	D	E	H	J	K	L	M	N	O	P
713	4.25	2.88	3.25	2.00	1.63	2.63	3.75	4.66	—	6.88	4.00	7.41	2.94
718	5.50	3.69	4.19	2.75	2.09	2.94	4.44	5.75	—	7.19	4.31	8.72	3.69
721	6.00	3.81	5.00	2.88	2.50	3.38	4.94	6.38	—	8.59	4.69	9.69	4.09
726	7.38	4.44	6.38	3.38	3.19	3.78	5.66	8.00	—	9.53	5.63	11.09	5.06
730	8.12	5.25	7.00	4.00	3.50	4.38	6.12	8.88	—	11.59	6.75	12.45	5.63
732	9.00	5.88	7.50	4.00	3.75	4.38	6.48	9.38	4.94	11.90	7.06	13.69	5.88
738	10.00	6.38	8.50	4.75	4.25	4.88	7.27	10.44	5.50	12.88	7.75	15.16	6.56
752	13.13	7.38	11.00	5.81	5.50	5.88	9.28	13.75	7.19	15.38	9.06	19.34	8.41
760	14.50	8.13	12.75	6.38	6.38	7.25	9.56	16.50	7.94	17.44	10.00	21.13	10.00

Size	S	T		Low Speed Shaft				High Speed Shaft				Approx. Weight (Lbs.)	Horizontal Base Kit No.
				U		W-KEY		X		Z-KEY			
		Tap Size	Depth	+.000 -.001	V	Sq	Length	+.000 -.001	Y	Sq	Length		
713	2.88	5/16-18	.50	.625	2.00	3/16	1	.3745	.81	3/32	3/8	15	56577
718	2.88	5/16-18	.50	.875	1.78	3/16	1	.3745	.81	3/32	3/8	28	56585
721	3.91	3/8-16	.56	1.000	2.09	1/4	1-1/4	.4995	1.31	1/8	5/8	37	56587
726	3.91	3/8-16	.56	1.125	2.63	1/4	1-5/16	.4995	1.31	1/8	5/8	55	56595
730	4.84	7/16-14	.88	1.250	3.25	1/4	2-1/4	.6245	1.56	3/16	13/16	73	65544
732	4.84	7/16-14	.66	1.375	3.25	5/16	2-7/16	.6245	1.56	3/16	13/16	93	56599
738	5.13	1/2-13	.75	1.625	3.50	3/8	2-1/4	.6245	1.56	3/16	13/16	132	56603
752	6.31	5/8-11	1.00	2.000	4.16	1/2	2-15/16	.7495	2.38	3/16	1	235	56607
760	7.44	5/8-11	1.00	2.250	4.56	1/2	3-3/8	.8745	2.31	3/16	1	298	56610

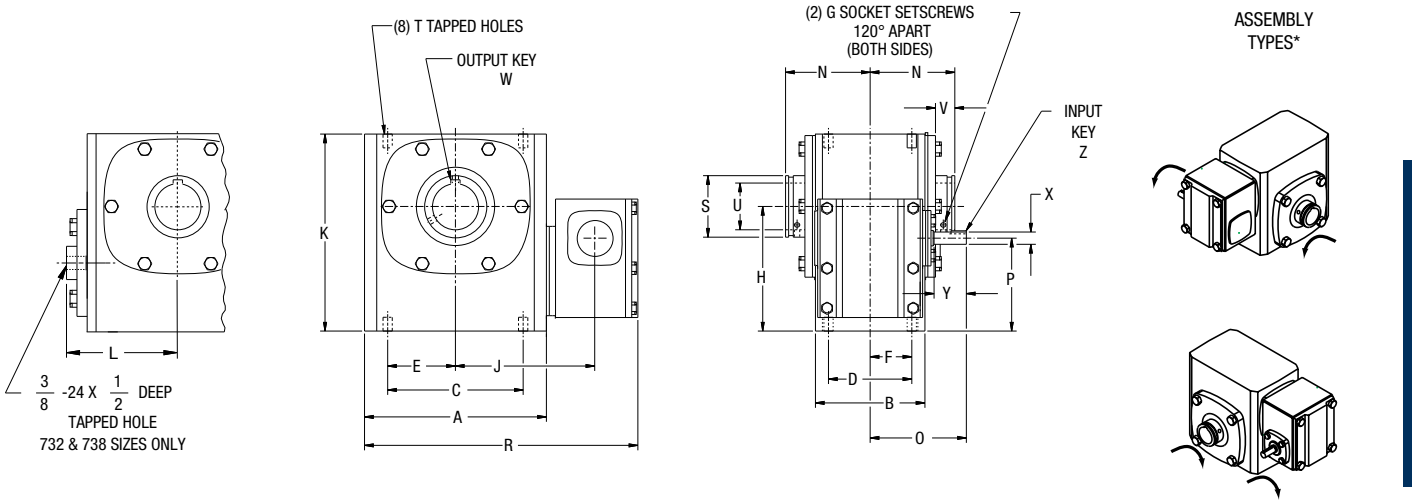
* See Assemblies and Mounting Positions, Page 74.
† For Base Kits, see Page 129.
Note: For base dimensions see Single Reduction Flanged Reducer Dimension pages.

700 Series Double Reduction Non-Flanged Reducer Dimensions

HWA700 Series

Basic Models (No Base); Parallel Shafts; Bored to Size Hollow Output

FOR ORDERING INFORMATION, see Page 56.
FOR RATING INFORMATION, See Pages 71, 77-81.



ALL DIMENSIONS IN INCHES

SIZE	A	B	C	D	E	F	G	H	J	K	L	N	O	P
713	4.25	2.88	3.25	2.00	1.63	1.00	#10-32	2.94	3.75	4.66	—	2.50	2.88	2.63
718	5.50	3.69	4.19	2.75	2.09	1.38	#10-32	3.69	4.44	5.75	—	3.03	2.88	2.94
721	6.00	3.81	5.00	2.88	2.50	1.44	1/4-28	4.09	4.94	6.38	—	3.22	3.91	3.38
726	7.38	4.44	6.38	3.38	3.19	1.69	5/16-24	5.06	5.66	8.00	—	3.44	3.91	3.78
730	8.12	5.25	7.00	4.00	3.50	2.00	5/16-24	5.63	6.12	8.88	—	4.19	4.84	4.38
732	9.00	5.88	7.50	4.00	3.75	2.00	5/16-24	5.88	6.48	9.38	4.94	4.31	4.88	4.38
738	10.00	6.38	8.50	4.75	4.25	2.38	5/16-24	6.56	7.27	10.44	5.50	4.81	5.13	4.88

Size	R	S	T		Low Speed Shaft				High Speed Shaft				Approx. Weight (Lbs.)
					Max U +.0015 -.0000	V	W-KEY		X +.000 -.001	Y	Z-KEY		
			Tap Size	Depth			Sq	Length			Sq	Length	
713	7.41	.88	5/16-18	.50	.625	.68			.3745	.81	3/32	3/8	17
718	8.72	1.38	5/16-18	.50	1.000	.84			.3745	.81	3/32	3/8	28
721	9.69	1.94	3/8-16	.56	1.4375	.87	See Page		.4995	1.31	1/8	5/8	37
726	11.09	2.50	3/8-16	.56	1.9375	.78	128 For		.4995	1.31	1/8	5/8	55
730	12.45	2.88	7/16-14	.88	2.1875	1.10	Key Information		.6245	1.56	3/16	13/16	76
732	13.69	2.88	7/16-14	.66	2.1875	.93			.6245	1.56	3/16	13/16	96
738	15.16	3.25	1/2-13	.75	2.4375	1.11			.6245	1.56	3/16	13/16	166

* See Assemblies and Mounting Positions, Page 74.
Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation.
See Page 128 for available bore sizes.

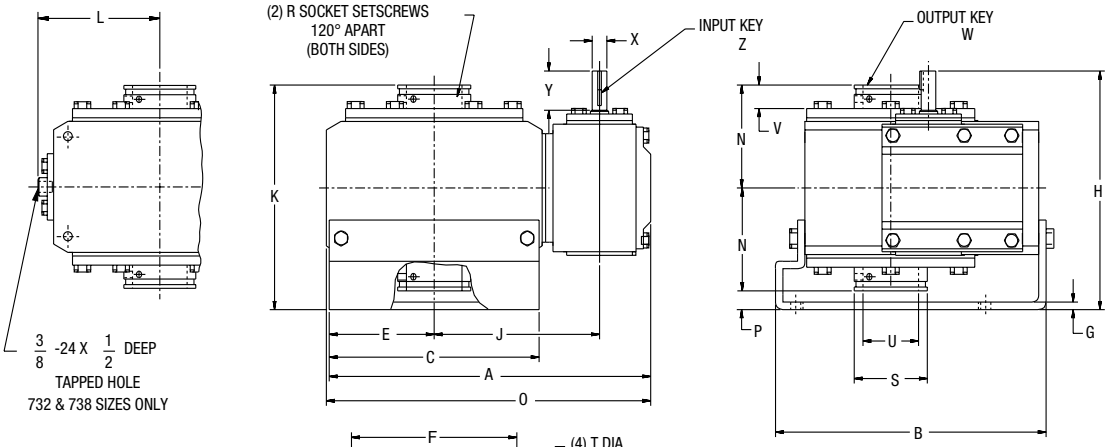
700 Series Double Reduction Non-Flanged Reducer Dimensions

HWA700 Series

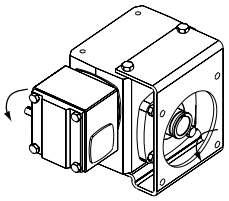
R Position Mounting Bracket; Parallel Shafts; Bored to Size Hollow Output

FOR ORDERING INFORMATION, see Page 56.
FOR RATING INFORMATION, See Pages 71, 77-81.

B



ASSEMBLY TYPES*



ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
713	7.40	5.55	4.25	1.77	2.12	3.54	.19	5.88	3.75	5.50	—	3.62	2.50	7.41	.50
718	8.38	6.66	4.81	2.08	2.41	4.16	.19	6.38	4.44	6.53	—	4.06	3.03	8.72	.47
721	9.57	7.47	5.75	2.30	2.88	4.60	.19	7.66	4.94	6.97	—	4.50	3.22	9.69	.53
726	11.00	9.25	7.18	2.83	3.59	5.66	.25	7.97	5.66	7.50	—	6.00	3.44	11.09	.62
730	12.39	10.38	8.00	3.18	4.00	6.36	.25	4.46	6.12	8.69	—	7.00	4.19	12.45	.31
732	13.44	10.91	8.50	3.54	4.25	7.08	.25	10.13	6.48	9.56	4.94	7.00	4.31	13.69	.94
738	14.91	11.84	9.50	4.06	4.75	8.12	.25	10.60	7.27	10.28	5.50	8.00	4.81	15.16	.66

				Low Speed Shaft				High Speed Shaft				
						W-KEY				Z-KEY		
Size	R	S	T DIA	Max U +.0015 -.0000	V	Sq	Length	X +.000 -.001	Y	Sq	Length	Approx. Weight (Lbs.)
713	#10-32	.88	11/32	.625	.68			.3745	.81	3/32	3/8	17
718	#10-32	1.38	11/32	1.000	.74			.3745	.81	3/32	3/8	34
721	1/4-28	1.94	13/32	1.4375	.87	See Page		.4995	1.31	1/8	5/8	42
726	5/16-24	2.50	13/32	1.9375	.78	128 For		.4995	1.31	1/8	5/8	66
730	5/16-24	2.88	13/33	2.1875	1.10	Key Information		.6245	1.56	3/16	13/16	86
732	5/16-24	2.88	9/16	2.1875	.93			.6245	1.56	3/16	13/16	126
738	5/16-24	3.25	9/16	2.4375	1.11			.6245	1.56	3/16	13/16	148

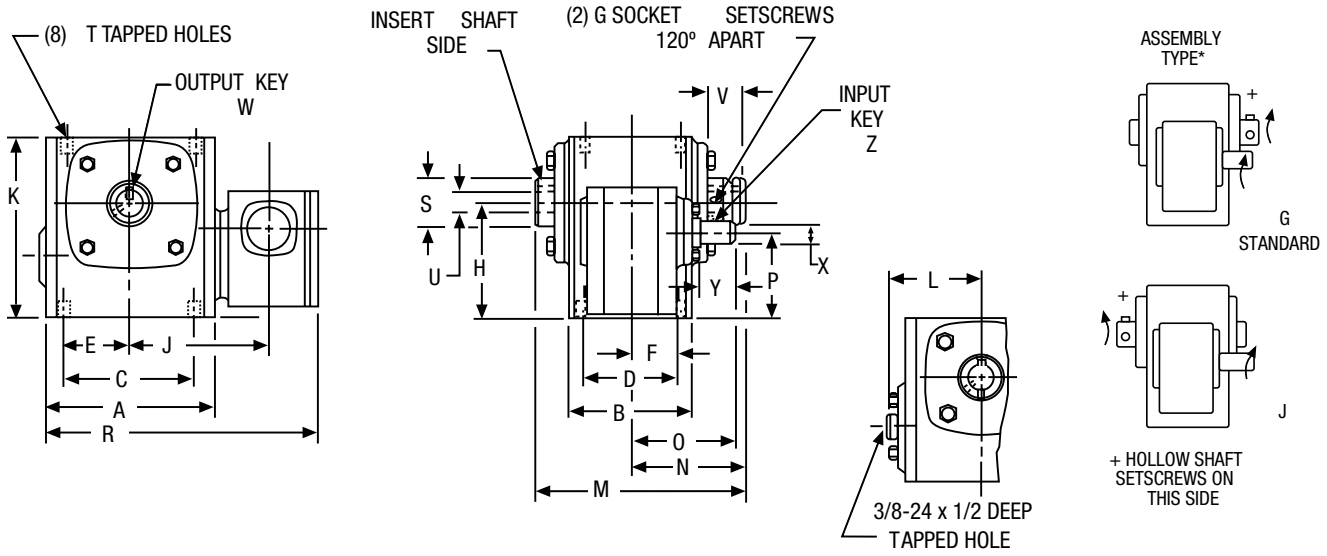
* See Assemblies and Mounting Position, Page 74
Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation.
See Page 128 for available bore sizes.

700 Series Double Reduction Non-Flanged Reducer Dimensions

SWA700 Series

Basic Models (No Base); Parallel Shafts; Hollow Output

FOR ORDERING INFORMATION, see Page 56.
FOR ADDITIONAL SIZES, See the H Series Page 88-89.
FOR RATING INFORMATION, See Pages 71, 77-81.



ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H	J	K	M	N	O	P
718	5.50	3.69	4.19	2.75	2.09	1.38	#10-32	3.69	4.44	5.75	5.69	3.09	2.88	2.94
721	6.00	3.81	5.00	2.88	2.50	1.44	1/4-28	4.09	4.94	6.38	5.88	3.22	3.91	3.38
726	7.38	4.44	6.38	3.38	3.19	1.69	1/4-28	5.06	5.66	8.00	6.47	3.50	3.91	3.78
732	9.00	5.88	7.50	4.00	3.75	2.00	5/16-24	5.88	6.48	9.38	8.06	4.38	4.88	4.38

Size	R	S	T		Low Speed Shaft				High Speed Shaft				Approx. Weight (Lbs.)
					U		W-KEY		X		Z-KEY		
			Tap Size	Depth	+.0015 -.000	V	Sq	Length	+.000 -.001	Y	Sq	Length	
718	8.72	1.38	5/16-18	.50	1.000	.78	See Page		.3745	.81	3/32	3/8	27
721	9.69	1.50	3/8-16	.56	1.125	.88	128 For		.4995	1.31	1/8	5/8	35
726	11.09	2.16	3/8-16	.56	1.4375	.84	Key Information		.4995	1.31	1/8	5/8	52
732	13.69	2.56	7/16-14	.66	1.9375	1.00			.6245	1.56	3/16	13/16	91

* See Assemblies and Mounting Positions, Page 74. Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounted surfaces, viewed from end of input shaft.
Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation.

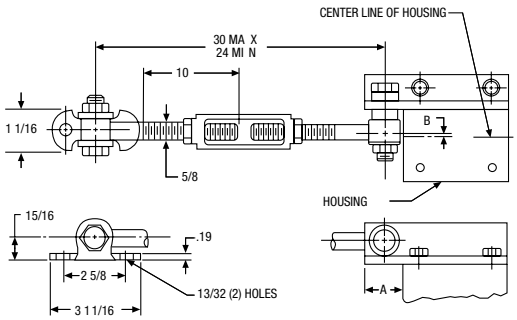
Note: For base dimensions see Single Reduction Flanged Reducer Dimension pages.

Reaction Rod Kits

ALL DIMENSIONS IN INCHES

SIZE	A	B	Catalog Number	Kit No.
718	1.09	.09	X718-76K	69692
721	1.25	.03	X721-76K	69693
726	1.25	.22	X726-76K	69694
732	1.50	.53	X732-76K	69695

All hardware shown is included in the kits.

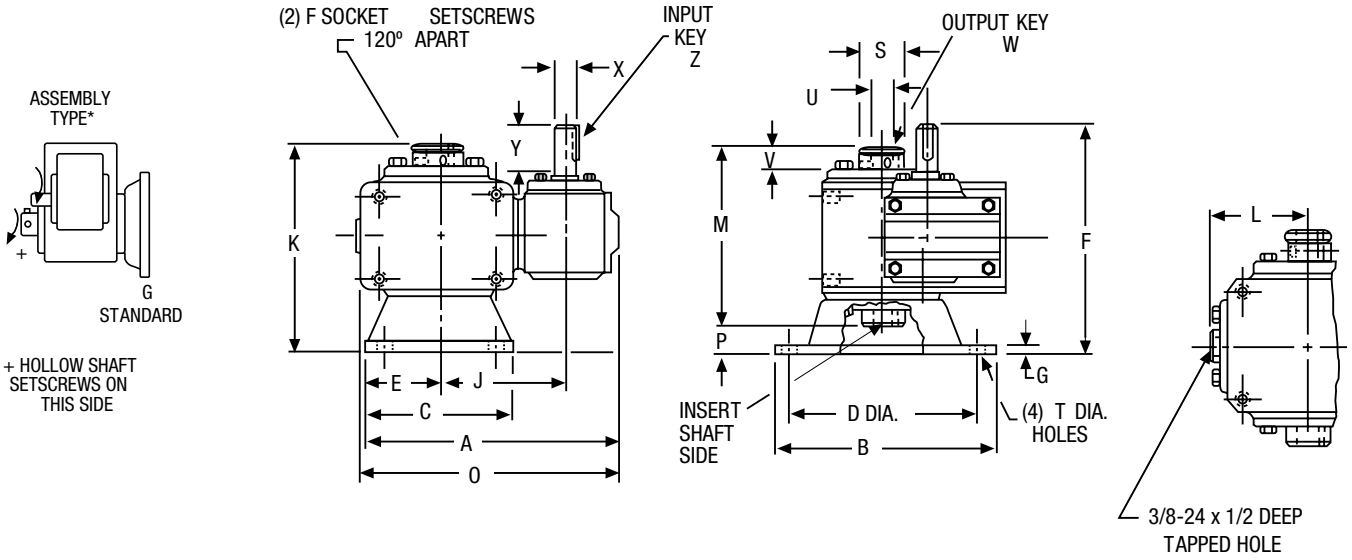


700 Series Double Reduction Non-Flanged Reducer Dimensions

SWA700 Series

V Position Mounting Flange; Parallel Shafts; Hollow Output

FOR ORDERING INFORMATION, see Page 56.
FOR ADDITIONAL SIZES, See the H Series Page 88-89.
FOR RATING INFORMATION, See Pages 71, 77-81.



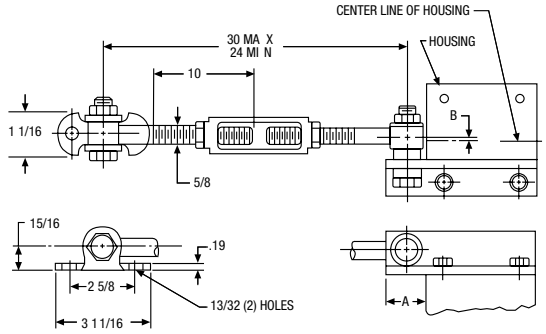
ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	J	K	M	O	P
718	8.41	6.75	4.88	5.88	2.44	#10-32	.38	4.44	6.59	5.69	8.72	.91
721	9.56	7.38	5.75	6.50	2.88	1/4-28	.38	4.94	6.97	5.88	9.69	1.09
726	11.28	8.88	7.75	8.00	3.88	1/4-28	.38	5.66	7.56	6.47	11.28	1.09
732	13.25	11.00	9.00	10.00	4.50	5/16-24	.50	6.48	9.63	8.06	13.69	1.56

Size	S	T Dia	Low Speed Shaft				High Speed Shaft				Approx. Weight (Lbs.)
			U +.0015 -.000	V	W-KEY		X +.000 -.001	Y	Z-KEY		
					Sq	Length			Sq	Length	
718	1.38	11/32	1.000	.78	See Page		.3745	.81	3/32	3/8	32
721	1.50	13/32	1.125	.88	128 For		.4995	1.31	1/8	5/8	40
726	2.16	13/32	1.4375	.84	Key Information		.4995	1.31	1/8	5/8	63
732	2.56	9/16	1.9375	1.00			.6245	1.56	3/16	13/16	120

* See Assemblies and Mounting Position, Page 74. Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounted surfaces, viewed from end of input shaft.
Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation.

Reaction Rod Kits



ALL DIMENSIONS IN INCHES

Size	A	B	Catalog Number	Kit No.
718	1.09	.09	X718-76K	69692
721	1.25	.03	X721-76K	69693
726	1.25	.22	X726-76K	69694
732	1.50	.53	X732-76K	69695

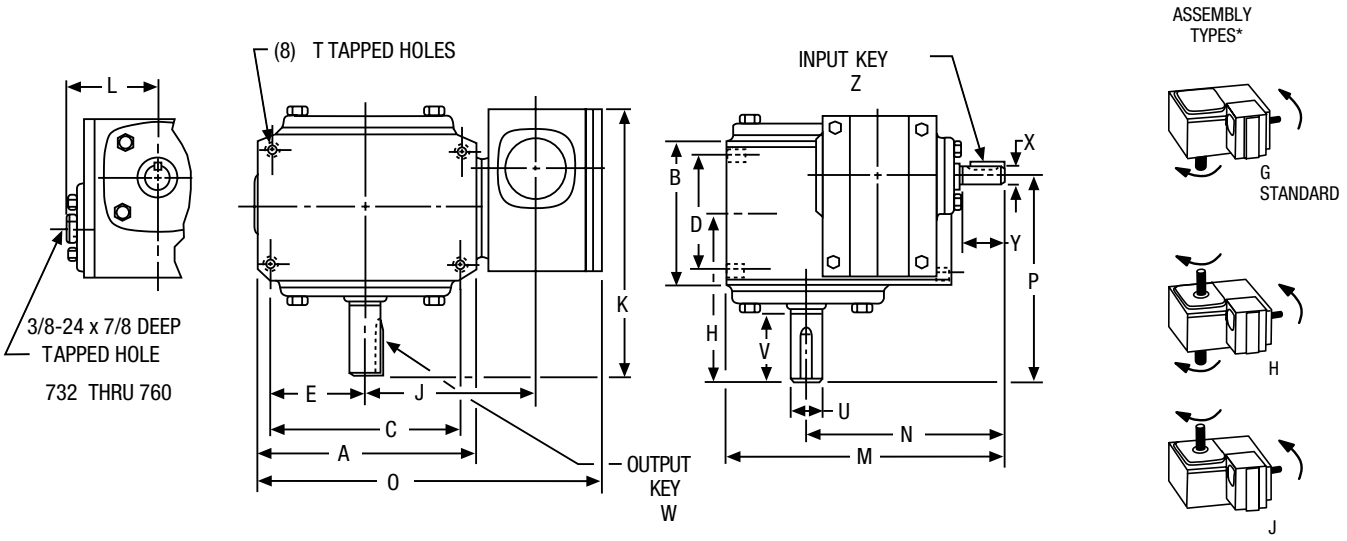
All hardware shown is included in the kits.

700 Series Double Reduction Non-Flanged Reducer Dimensions

WC700 Series

Basic Models (No Base); Right Angle Shafts

FOR ORDERING INFORMATION, see Page 56.
FOR RATING INFORMATION, See Pages 71, 77-81.



B

ALL DIMENSIONS IN INCHES

SIZE	A	B	C	D	E	H	J	K	L	M	N	O	P
713	4.25	2.88	3.25	2.00	1.63	4.00	3.75	6.19	—	5.94	4.22	7.41	5.00
718	5.50	3.69	4.19	2.75	2.09	4.31	4.44	6.50	—	6.69	4.63	8.72	5.31
721	6.00	3.81	5.00	2.88	2.50	4.69	4.94	7.63	—	8.25	5.97	9.69	6.03
726	7.38	4.44	6.38	3.38	3.19	5.63	5.66	8.56	—	9.47	6.53	11.09	6.97
730	8.12	5.25	7.00	4.00	3.50	6.75	6.12	10.44	—	11.09	7.84	12.45	8.50
732	9.00	5.88	7.50	4.00	3.75	7.06	6.48	10.75	4.94	11.63	8.13	13.69	8.81
738	10.00	6.38	8.50	4.75	4.25	7.75	7.27	11.84	5.50	12.75	8.88	15.16	9.81
752	13.13	7.38	11.00	5.81	5.50	9.06	9.28	14.00	7.19	16.81	11.50	19.34	11.69
760	14.50	8.13	12.75	6.38	6.38	10.00	9.56	15.88	7.94	19.94	13.44	21.13	13.25

Size	T		Low Speed Shaft				High Speed Shaft				Approx. Weight (LBS.)	Vertical Base Kit No. †	
	Tap Size	Depth	U +.000 -.001	V	W-KEY Sq	W-KEY Length	X +.000 -.001	Y	Z-KEY Sq	Z-KEY Length		High	Low
713	5/16-18	.50	.625	2.00	3/16	1	.3745	.81	3/32	3/8	15	56578	56579
718	5/16-18	.50	.875	1.78	3/16	1	.3745	.81	3/32	3/8	28	56582	56583
721	3/8-16	.56	1.000	2.09	1/4	1-1/4	.4995	1.31	1/8	5/8	37	56588	56589
726	3/8-16	.56	1.125	2.63	1/4	1-15/16	.4995	1.31	1/8	5/8	55	56596	56597
730	7/16-14	.88	1.250	3.25	1/4	2-1/4	.6245	1.56	3/16	13/16	73	65545	65546
732	7/16-14	.66	1.375	3.25	5/16	2-7/16	.6245	1.56	3/16	13/16	93	56600	56601
738	1/2-13	.75	1.625	3.50	3/8	2-1/4	.6245	1.56	3/16	13/16	132	56604	56605
752	5/8-11	1.00	2.000	4.16	1/2	2-15/16	.7495	2.38	3/16	1	235	56608	56609
760	5/8-11	1.00	2.250	4.56	1/2	3-3/8	.8745	2.31	3/16	1	298	56611	56612

* See Assemblies and Mounting Positions, Page 75.
† For Base Kits, see Page 129.

700 Series Double Reduction Non-Flanged Reducer Dimensions

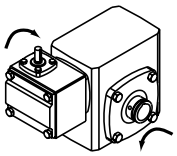
HWC700 Series

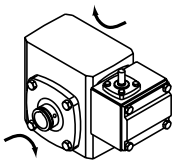
Basic Models (No Base); Right Angle Shafts; Bored to Size Hollow Output

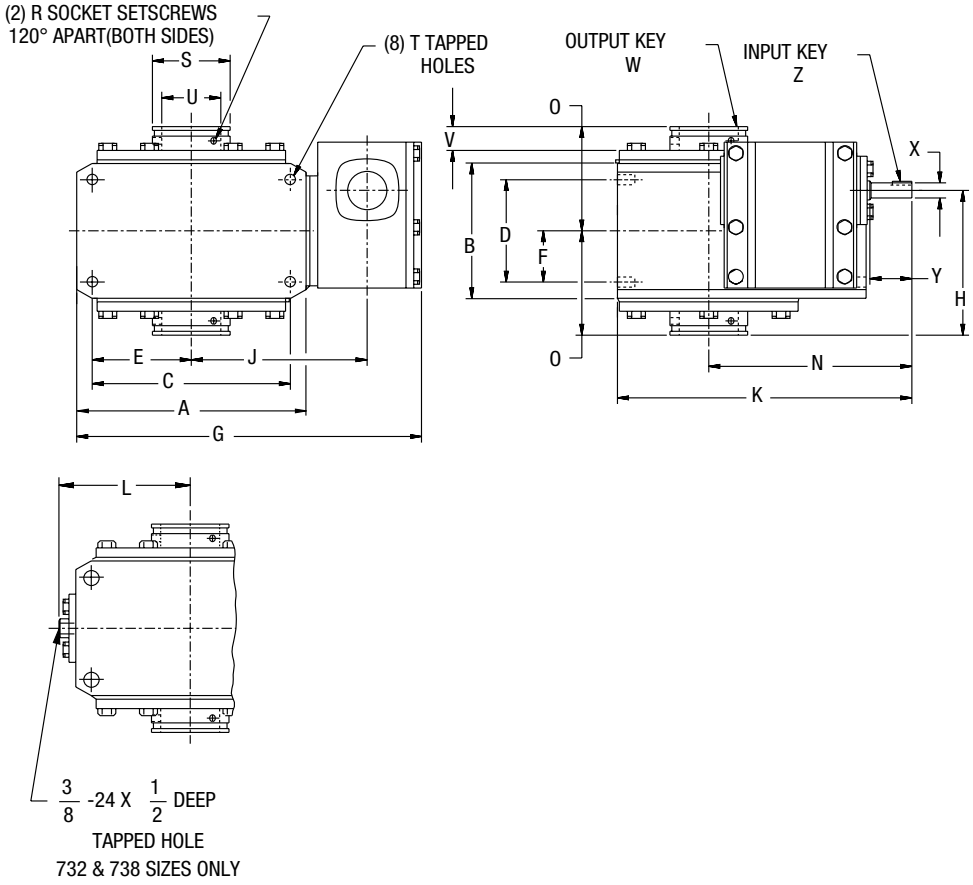
FOR ORDERING INFORMATION, see Page 56.
FOR RATING INFORMATION, See Pages 71, 77-81.

B

ASSEMBLY TYPES*







ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H	J	K	L	N	O	R
713	4.25	2.88	3.25	2.00	1.63	1.00	7.41	3.50	3.75	5.94	—	4.22	2.50	#10-32
718	5.50	3.69	4.19	2.75	2.09	1.38	8.72	4.03	4.44	6.69	—	4.63	3.03	#10-32
721	6.00	3.81	5.00	2.88	2.50	1.44	9.69	4.55	4.94	8.25	—	5.97	3.22	1/4-28
726	7.38	4.44	6.38	3.38	3.19	1.69	11.09	4.77	5.66	9.47	—	6.53	3.44	5/16-24
730	8.12	5.25	7.00	4.00	3.50	2.00	12.45	5.94	6.12	11.09	—	7.84	4.19	5/16-24
732	9.00	5.88	7.50	4.00	3.75	2.00	13.69	6.06	6.48	11.63	4.94	8.13	4.31	5/16-24
738	10.00	6.38	8.50	4.75	4.25	2.38	15.16	6.87	7.27	12.75	5.50	8.88	4.81	5/16-24

Size	S	T		Low Speed Shaft				High Speed Shaft				Approx. Weight (Lbs.)
		Tap Size	Depth	Max U +.0015 -.000	V	W-KEY Sq	W-KEY Length	X +.000 -.001	Y	Z-KEY Sq	Z-KEY Length	
718	.88	5/16-18	.50	.625	.68			.3745	.81	3/32	3/8	17
721	1.38	5/16-18	.50	1.000	.74			.3745	.81	3/32	3/8	28
726	1.94	3/8-16	.56	1.4375	.87	See Page		.4995	1.31	1/8	5/8	37
732	2.50	3/8-16	.56	1.9375	.78	128 For		.4995	1.31	1/8	5/8	55
730	2.88	7/16-14	.88	2.1875	1.10	Key Information		.6245	1.56	3/16	13/16	76
732	2.88	7/16-14	.66	2.1875	.93			.6245	1.56	3/16	13/16	96
738	3.25	1/2-13	.75	2.4375	1.11			.6245	1.56	3/16	13/16	166

* See Assemblies and Mounting Positions, Page 75.
Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation.
See Page 128 for available bore sizes.

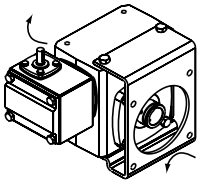
700 Series Double Reduction Non-Flanged Reducer Dimensions

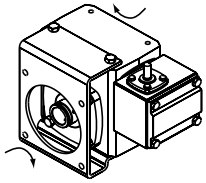
HWC700 Series

R/L Position Mounting Bracket; Right Angle Shafts; Bored to Size Hollow Output

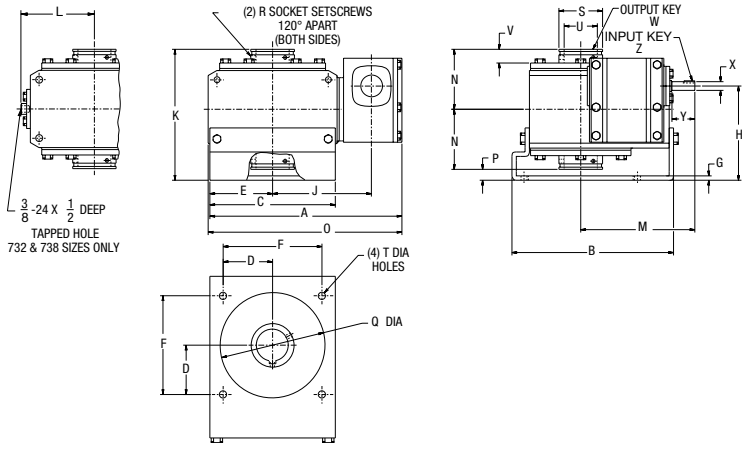
FOR ORDERING INFORMATION, see Page 56.
FOR RATING INFORMATION, See Pages 71, 77-81.

ASSEMBLY TYPES*

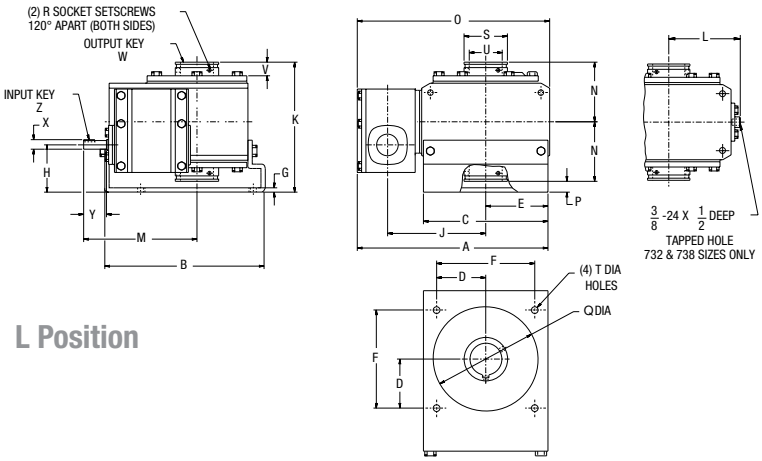




R Position



L Position



ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H		J	K	L	M	N	O	P
								R Model	L Model							
713	7.40	5.55	4.24	1.77	2.12	3.54	.19	4.00	2.00	3.75	5.50	—	4.22	2.50	7.41	.50
718	8.38	6.66	4.82	2.08	2.41	4.16	.19	4.50	2.50	4.44	6.53	—	4.63	3.03	8.72	.47
721	9.57	7.47	5.76	2.30	2.88	4.60	.19	5.08	2.42	4.94	6.97	—	5.97	3.22	9.69	.53
726	11.00	9.25	7.18	2.83	3.59	5.66	.25	5.39	2.73	5.66	7.50	—	6.53	3.44	11.09	.62
730	12.39	10.38	8.00	3.18	4.00	6.38	.25	6.25	2.75	6.12	8.69	—	7.84	4.19	12.45	.31
732	13.44	10.91	8.50	3.54	4.25	7.08	.25	7.00	3.50	6.48	9.56	4.94	8.13	4.31	13.69	.94
738	14.91	11.84	9.50	4.06	4.75	8.12	.25	7.53	3.41	7.27	10.28	5.50	8.88	4.81	15.16	.66

Size	Q	R	S	T Dia.	Low Speed Shaft				High Speed Shaft				Approx. Weight (Lbs.)
					Max U +.0015 -.0000	V	W-KEY		X +.000 -.001	Y	Z-KEY		
							Sq	Length			Sq	Length	
713	3.62	#10-32	.88	11/32	.625	.68			.3745	.81	3/32	3/8	17
718	4.06	#10-32	1.38	11/32	1.000	.74			.3745	.81	3/32	3/8	34
721	4.50	1/4-28	1.94	13/32	1.4375	.87	See Page		.4995	1.31	1/8	5/8	42
726	6.00	5/16-24	2.50	13/32	1.9375	.78	128 For		.4995	1.31	1/8	5/8	66
730	7.00	5/16-24	2.88	13/32	2.1875	1.10	Key Information		.6245	1.56	3/16	13/16	86
732	7.00	5/16-24	2.88	9/16	2.1875	.93			.6245	1.56	3/16	13/16	126
738	8.00	5/16-24	3.25	9/16	2.4375	1.11			.6245	1.56	3/16	13/16	148

* See Assemblies and Mounting Positions, Page 75.
Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation. See Page 128 for available bore sizes.

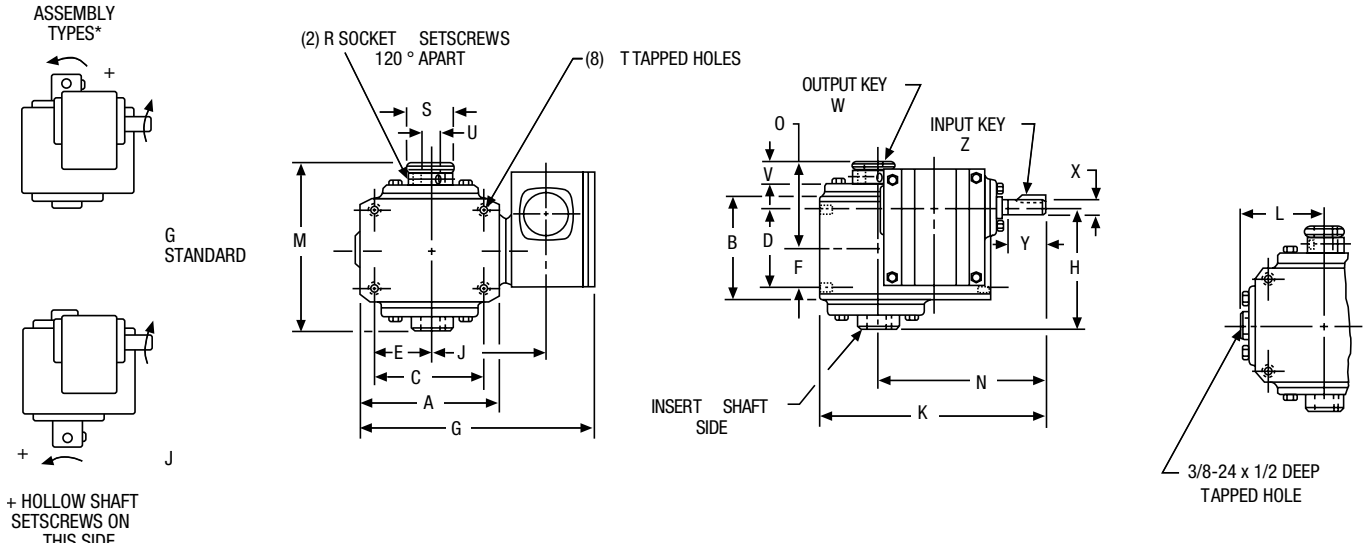
700 Series Double Reduction Non-Flanged Reducer Dimensions

SWC700 Series

Basic Models (No Base); Right Angle Shafts; Hollow Output

FOR ORDERING INFORMATION, see Page 56.
FOR ADDITIONAL SIZES, See the H Series Page 88-89.
FOR RATING INFORMATION, See Pages 71, 77-81.

B



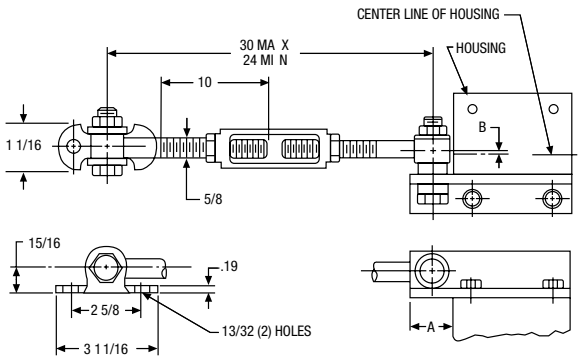
ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H	J	K	M	N	O	R
718	5.50	3.69	4.19	2.75	2.09	1.38	8.72	3.59	4.44	6.69	5.69	4.63	3.09	#10-32
721	6.00	3.81	5.00	2.88	2.50	1.44	9.69	4.00	4.94	8.25	5.88	5.97	3.22	1/4-28
726	7.38	4.44	6.38	3.38	3.19	1.69	11.09	4.31	5.66	9.47	6.47	6.53	3.50	1/4-28
732	9.00	5.88	7.50	4.00	3.75	2.00	13.69	5.44	6.48	11.63	8.06	8.13	4.38	5/16-24

Size	S	T		Low Speed Shaft				High Speed Shaft				Approx. Weight (Lbs.)
				U		W-KEY		X		Z-KEY		
		Tap Size	Depth	+.0015 -.000	V	Sq	Length	+.000 -.001	Y	Sq	Length	
718	1.38	5/16-18	.50	1.000	.78	See Page		.3745	.81	3/32	3/8	27
721	1.50	3/8-16	.56	1.125	.88	128 For		.4995	1.31	1/8	5/8	35
726	2.16	3/8-16	.56	1.4375	.84	Key Information		.4995	1.31	1/8	5/8	52
732	2.56	7/16-14	.66	1.9375	1.00			.6245	1.56	3/16	13/16	91

* See Assemblies and Mounting Positions, Page 75. Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounted surfaces, viewed from end of input shaft. Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation.

Reaction Rod Kits



ALL DIMENSIONS IN INCHES

SIZE	A	B	Catalog Number	Kit No.
718	1.09	.09	X718-76K	69692
721	1.25	.03	X721-76K	69693
726	1.25	.22	X726-76K	69694
732	1.50	.53	X732-76K	69695

All hardware shown is included in the kits.

700 Series Double Reduction Non-Flanged Reducer Dimensions

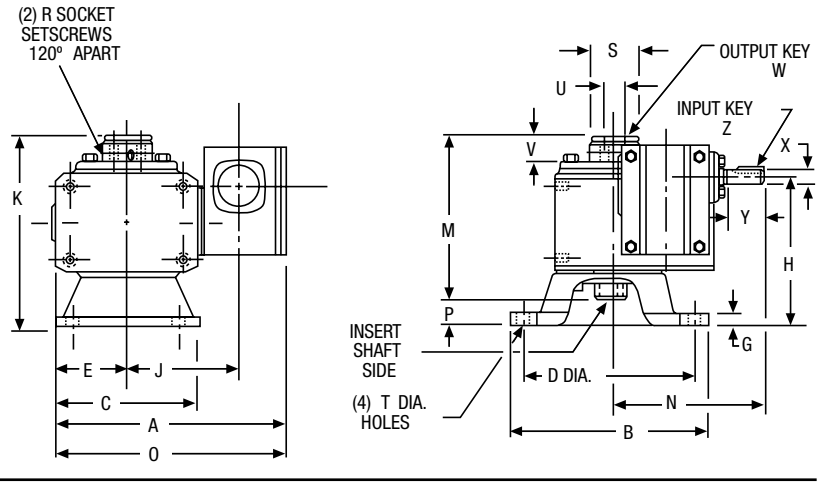
SWC700 Series

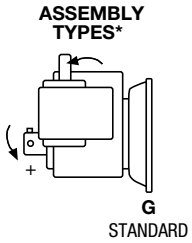
V/W Position Mounting Flange; Right Angle Shafts; Hollow Output

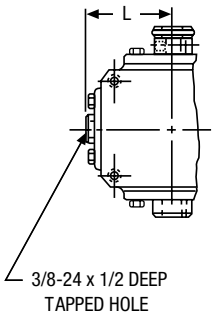
FOR ORDERING INFORMATION, see Page 56.
FOR ADDITIONAL SIZES, See the H Series Page 88-89.
FOR RATING INFORMATION, See Pages 71, 77-81.

B

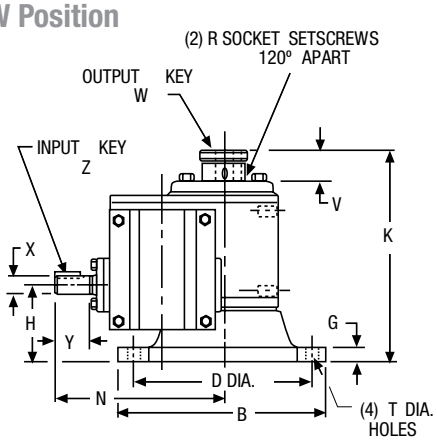
V Position

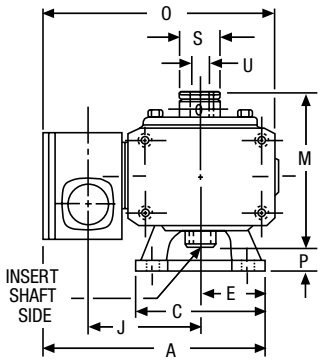


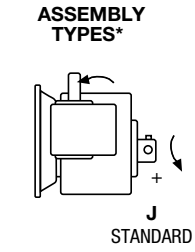




W Position







+ HOLLOW SHAFT SETSCREWS ON THIS SIDE.

ALL DIMENSIONS IN INCHES

SIZE	A	B	C	D	E	G	H V Model	H W Model	K	L	M	N	O	P
718	8.41	6.75	4.88	5.88	2.44	.38	4.50	3.50	4.44	6.59	5.69	4.63	8.72	.91
721	9.56	7.38	5.75	6.50	2.88	.38	5.09	3.75	4.94	6.97	5.88	5.97	9.69	1.09
726	11.28	8.88	7.75	8.00	3.88	.38	5.41	4.08	5.66	7.56	6.47	6.53	11.28	1.09
732	13.25	11.00	9.00	10.00	4.50	.50	7.00	5.25	6.48	9.63	8.06	8.13	13.69	1.56

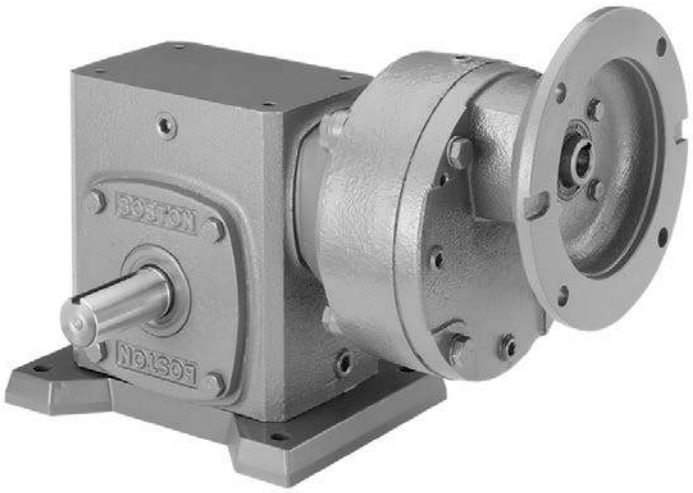
Size	R	S	T Dia.	Low Speed Shaft U +.0015 -.000	V	W-KEY Sq	W-KEY Length	High Speed Shaft X +.000 -.001	Y	Z-KEY Sq	Z-KEY Length	Approx. Weight (Lbs.)
718	#10-32	1.38	11/32	1.000	.78	See Page		.3745	.81	3/32	3/8	32
721	1/4-28	1.50	13/32	1.125	.88	128 For		.4995	1.31	1/8	5/8	40
726	1/4-28	2.16	13/32	1.4375	.84	Key Information		.4995	1.31	1/8	5/8	63
732	5/16-24	2.56	9/16	1.9375	1.00			.6245	1.56	3/16	13/16	120

* See Assemblies and Mounting Positions, Page 75. Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounted surfaces, viewed from end of input shaft. Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation.

Notes

B





C

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Features 105

Numbering System / How to Order 106

Assemblies and Mounting Positions 107-108

Quick Selection Chart 109

Output RPM Selection Tables 110-118

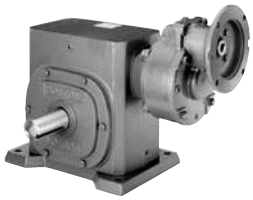
Dimensions 119-126

700 Series Single Reduction
Flanged Reducers with HMF Series

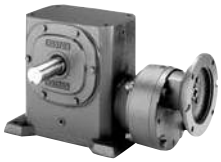
Ordering Information – Page 106
Selection/Rating Information – Pages 109-118
Mountings – Pages 107-108



F700/QC700 BASIC W/HMF
Dimension Page 119



F700/QC700 B W/HMF
Dimension Page 120



F700/QC700 A W/HMF
Dimension Page 121



F700/QC700 C/D W/HMF
Dimension Page 122

C



F700 /QC700 E/F W/HMF
Dimension Page 122



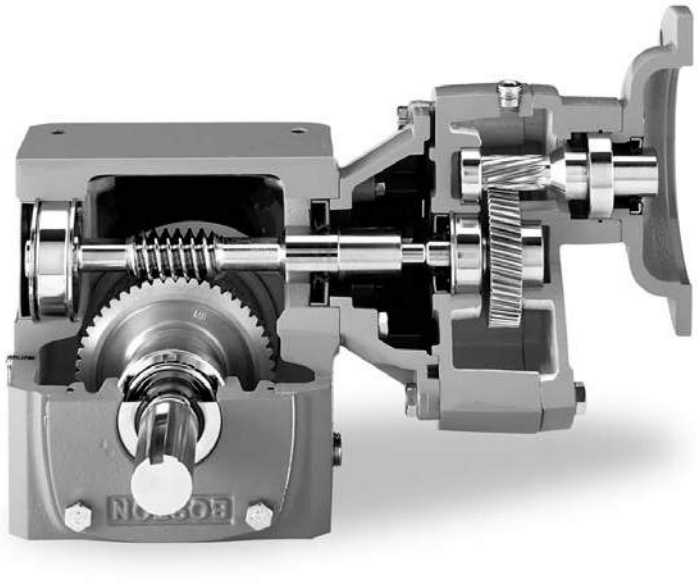
F700/QC700 X W/HMF
Dimension Page 123



HF700/HQC700 W/HMF
Dimension Page 124



HF700/HQC700 R/L W/HMF
Dimension Page 125



Combination 700 and HM Series Features

- Rugged housing of fine-grained, gear-quality cast iron provides maximum strength and durability. Greater rigidity and one-piece construction ensure precise alignment of the worm and gear. This housing construction also provides superior resistance to caustic washdown solutions, plus high heat dissipation and reduced noise level. Pipe plugs allow easy fill, level and drain in any mounting position.
- Housings are straddle-milled top and bottom for precise alignment of horizontal and vertical bases.
- Multi-position mounting flexibility - threaded bolt holes let you install the HM Series speed reducers in almost any position.
- Internal baffle assures positive leak-free venting.
- Large oil reservoir provides highly efficient heat dissipation and lubrication for longer operating life.
- High pressure angle on worm provides greater operating efficiency.
- Integral input worm and shaft design made from high-strength case-hardened alloy steel. Reducer sizes 710 through 730 have pre-lubricant ball bearings: 732 through 760 have tapered roller bearings. Double lip oil seals are standard.
- Super-finshed oil seal diameters on both input and output shafts provide extended seal life.
- High strength steel output shaft assures capacity for high torque and overhung loads
- High-strength bronze worm gear is straddle mounted between heavy-duty tapered roller bearings to increase thrust and overhung load capacities, sizes 713-760.

C

Numbering System / How to Order

When ordering reducers please include code letters for Style, Size, Base (if required), Ratio, Lubrication (if required), NEMA Mounting (if flanged reducer), Shaft Assembly and Motor (if required).

Example:

Application requirements: 125:1 reduction, 1 HP NEMA 140TC 1750 RPM, Service Class I, horizontal base, Klubersynth UH1 6-460 lubrication, with standard assembly.

HMF	2	5	K	B7	B7	A

Assembled to an:

F	732	B	25	K	B7	G

Each gearbox can be shipped separately or assembled.

HMF - 2 - 1.5 - K - B5 - B7 – B

Type
HMF-Quill Flange Input

Size
1
2
3

Ratio
1.5:1
2:1
3:1
4:1
5:1

Lubrication
K – Klubersynth UH1 6-460

Input Flange Size
B5 – 56C
B7 – 140TC
B9 – 180TC
B11 – 210TC

Output Flange Size
B5 – 56C
B7 – 140TC
B9 – 180TC
B11 – 210TC

Mounting Position
A
B
C
D

C

700 Series Right Angle Helical-Worm Gearbox - Double Reduction

SBKC H QC HMA 7 38 B – 300 K E Z T – B5 – HS 1 – P24

Input Shaft Style
Blank–Solid Projecting Input Shaft
F- Quill Style Motor Flange
RF – Coupling Style Motor Flange
QC – *Quick Connect* Motor Flange (close coupled)

7 – 700 Series

Center Distance (inches)
13 – 1.33
18 – 1.75
21 – 2.06
26 – 2.62
30 – 3.00
32 – 3.25
38 – 3.75
52 – 5.13
60 – 6.00

Exact Gear Ratio
Ratio to 1

10	60
15	75
20	80
22.5	100
25	125
30	150
37.5	200
40	250
45	300
50	

Check Catalog – Or consult factory for availability

Vent
Blank–Standard Vent
P – Pressure Vent (5 psi)
Z – Posivent (sealed)

Endcap
(732-760 only)
E – Endcap (standard)

***BostMount* Output Bore Code**
Refer to page 128 for complete offering
See catalog for availability by center distance.

Output Shaft Style
Blank–Solid Output Shaft
H – *BostMount* Hollow Output (setscrews both sides, bore size selectable)
S – Hollow Output (setscrews one side, bore size fixed)

Reduction Type
HMA – Helical Multiplier 12 O'clock
HMB – Helical Multiplier 6 O' clock
HMC – Helical Multiplier 3 O'clock
HMD – Helical Multiplier 9 O'clock
WP – Planetary Torque Mulitplier

Lubrication
Blank–No lubrication
K – Klubersynth UH1 6-460
S – Mobil SHC 634
X – Mobil 600W

Oil Seal
Blank– Standard Seal
T– Two Standard Input Seals
C– High pressure washdown output seals and double input seals (stainless products only)
IP69K

Mounting Positions
Blank -No Lubrication Supplied
For Factory Prelubrication Indicate Mounting Position
1 – Standard Mounting (Worm over)
2-6–Refer to Mounting Positions in Catalog

Reducer Material/Paint
Blank–Cast Iron, Std. Gray paint
BKC – Cast Iron, White *BostKleen* paint
SBKC–Cast Iron, Stainless *BostKleen* paint
SS – Stainless Steel material-no paint

Base/Mounting Attachment*
Blank – No base kit required
A & B – Horizontal bases
C & E – Vertical High bases
D & F – Vertical Low bases
R/L – *BostMount* Output Bracket
X – Input Vertical Up
Y – Input Vertical Down
V/W – Hollow O/P with base
M/N – Hollow O/P with CFA
*See catalog for mounting configurations

NEMA Motor Mounting

BORE CODE	NEMA MOUNTING	INPUT BORE	KEYWAY
B4	42CZ	.500"	1/8 x 1/16
B5	56C	.625	3/16 x 3/32
B7	140TC/180C	.875	3/16 x 3/32
B9	180TC/210C	1.125	1/4 x 1/8
B11	210TC/250UC	1.375	5/16 x 5/32
B13	250TC	1.625	3/8 x 3/16

Blank Solid Input Shaft (No Flange)

Output Shaft Assembly
G Output Projection Opposite Input
H Double Output Projection
J Output Projection Same Side as Input
GS Stainless Output Projection Opposite Input
HS Stainless Double Output Projection
JS Stainless Output Projection Same Side as Input

Assemblies

Standard assemblies define output shaft (slow speed) projection with respect to input shaft (high speed) and mounting surfaces.

Type “A” and “B” are horizontal bases.

Types “C” and “E” are vertical high bases and types “D” and “F” are vertical low bases.

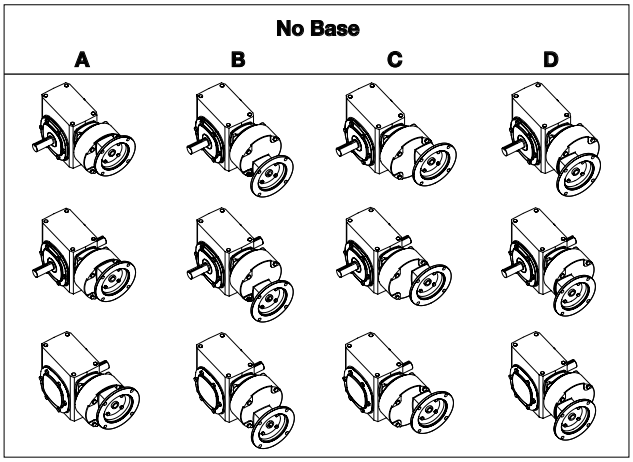
Type “X” is input vertical up.

Basic models and separate base kits are supplied unless otherwise specified. Assembly “H” available at a slight additional charge.

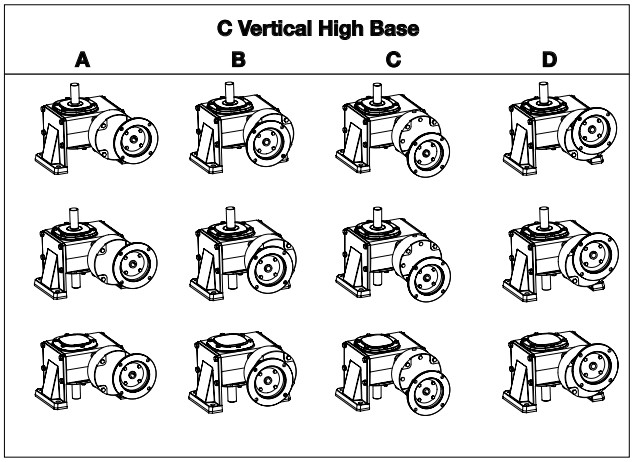
Input may rotate clockwise or counter clockwise.

FOR OTHER CONFIGURATIONS NOT SHOWN, CONTACT FACTORY.

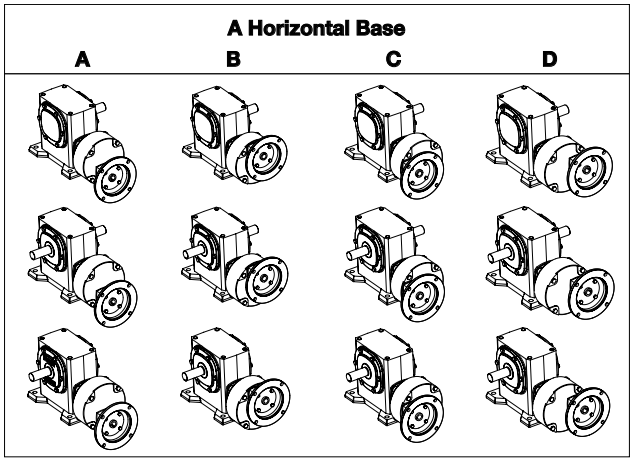
No Base



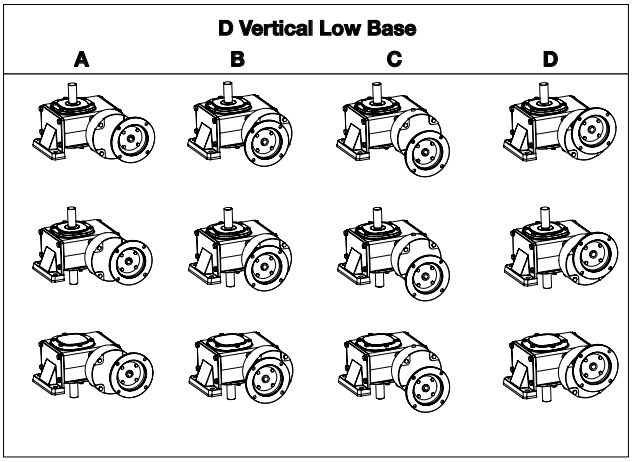
C Vertical High Base



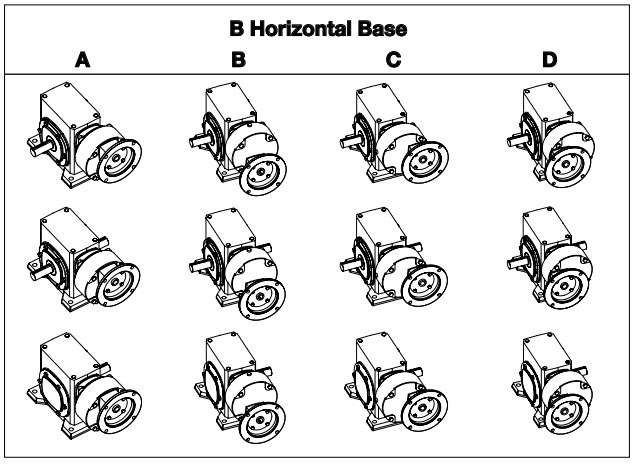
A Horizontal Base



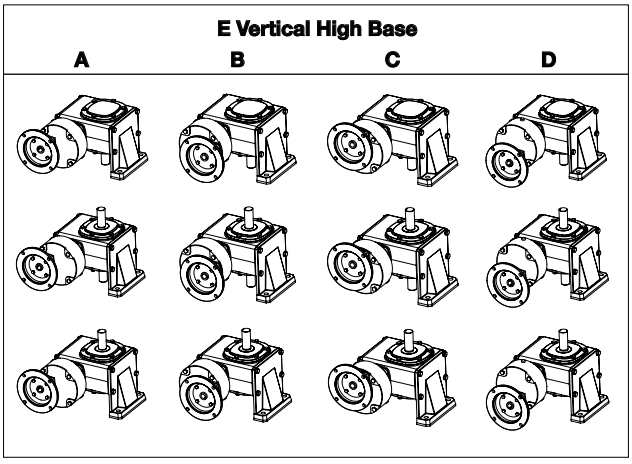
D Vertical Low Base



B Horizontal Base



E Vertical High Base



C

Mounting Data

Assemblies

Standard assemblies define output shaft (slow speed) projection with respect to input shaft (high speed) and mounting surfaces.

Type “A” and “B” are horizontal bases.

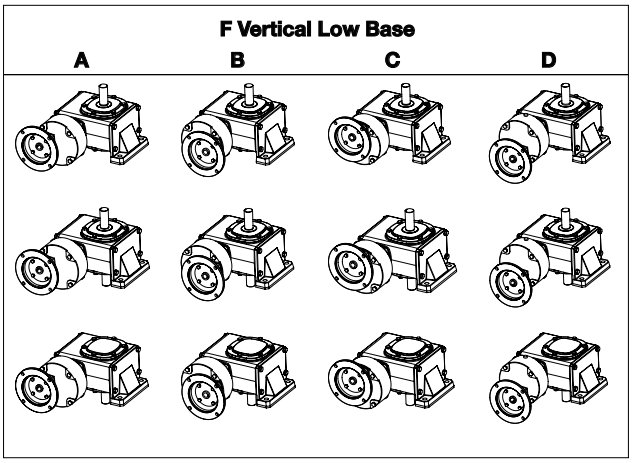
Types “C” and “E” are vertical high bases and types “D” and “F” are vertical low bases.

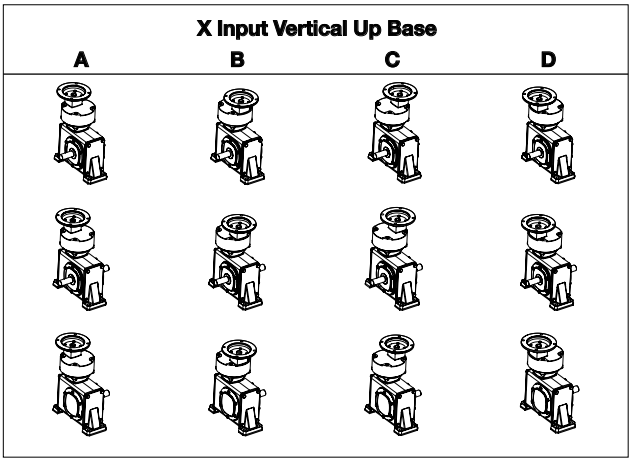
Type “X” is input vertical up.

Basic models and separate base kits are supplied unless otherwise specified. Assembly “H” available at a slight additional charge.

Input may rotate clockwise or counter clockwise.

FOR OTHER CONFIGURATIONS NOT SHOWN, CONTACT FACTORY.





C

Quick Reference Model Selection Chart

CLASS I SERVICE
Single Reduction (1.0 Service Factor)

Reducer Ratio	Output RPM	Input Horsepower @ 1750 rpm													
		1/6	1/4	1/3	1/2	3/4	1	1-1/2	2	3	5	7-1/2	10	15	20
10	175		713	713	713	715	715	721	721	726	730	—	—	—	—
15	116.7		713	713	715	715	721	721	724	730	—	—	—	—	—
20	87.5	713	713	713	715	718	721	724	726	730	738	752	752	—	—
22.5	77.8	713	713	713	715	721	721	724	726	730	738	752	752	—	—
25	70	713	713	715	715	721	721	726	730	—	—	—	—	—	—
30	58.3	713	713	715	718	721	721	726	730	732	752	752	760	—	—
37.5	46.7	713	713	715	718	721	724	730	732	—	—	—	—	—	—
40	43.8	713	713	715	721	721	724	730	730	738	752	752	760	—	—
45	38.9	713	713	715	721	724	726	730	730	738	752	760	760	—	—
50	35	713	715	718	721	724	726	730	730	738	752	760	760	—	—
60	29.2	713	715	718	721	724	726	730	738	752	752	760	—	—	—
75	23.3	715	718	721	724	726	730	730	738	752	752	—	—	—	—
80	21.9	715	718	721	724	726	730	732	738	752	760	—	—	—	—
100	17.5	715	718	721	724	730	730	738	738	752	760	—	—	—	—
125	14	718	721	724	726	730	732	—	—	—	—	—	—	—	—
150	11.7	718	721	724	726	730	732	738	—	—	—	—	—	—	—
200	8.8	718	721	724	730	732	738	—	—	760	—	—	—	—	—
250	7	721	724	726	730	738	—	—	—	—	—	—	—	—	—
300	5.8	721	726	730	732	738	—	—	—	—	—	—	—	—	—

CLASS II SERVICE
Single Reduction (1.25 Service Factor)

Reducer Ratio	Output RPM	Input Horsepower @ 1750 rpm													
		1/6	1/4	1/3	1/2	3/4	1	1-1/2	2	3	5	7-1/2	10	15	20
10	175		713	713	713	715	721	724	726	730	—	—	—	—	—
15	116.7		713	713	715	721	721	724	726	730	—	—	—	—	—
20	87.5	713	713	715	718	721	724	726	732	732	752	752	752	—	—
22.5	77.8	713	713	715	718	721	724	726	730	732	752	752	—	—	—
25	70	713	715	715	721	721	724	726	730	—	—	—	—	—	—
30	58.3	713	715	715	721	721	724	730	730	738	752	752	760	—	—
37.5	46.7	713	715	718	721	724	726	730	732	—	—	—	—	—	—
40	43.8	713	715	718	721	724	726	730	732	752	752	760	760	—	—
45	38.9	713	715	718	721	724	726	730	738	752	752	760	—	—	—
50	35	713	718	721	724	726	730	730	738	752	752	760	—	—	—
60	29.2	715	718	721	724	726	730	732	738	752	—	760	—	—	—
75	23.3	715	721	721	724	730	730	738	752	752	—	760	—	—	—
80	21.9	715	721	721	724	730	730	738	752	752	—	—	—	—	—
100	17.5	718	721	724	726	730	732	738	—	752	—	—	—	—	—
125	14	721	724	726	730	732	—	—	—	—	—	—	—	—	—
150	11.7	721	724	726	730	732	738	738	—	752	—	—	—	—	—
200	8.8	721	724	726	730	738	—	—	—	—	—	—	—	—	—
250	7	724	726	730	732	—	—	—	—	—	—	—	—	—	—
300	5.8	724	726	732	738	—	—	—	—	—	—	—	—	—	—

Note: This chart is meant only as a guide. For actual ratings, see Pages 110-118.

C

Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

Output RPM	Ratio	Flanged Reducers (Gearmotor)								Motors*
		Gear Capacity			Available Models	Ratings				Catalog Nos.
		Output Torque (lb.in.)	HP		F, QC, HF, SF, HQC, RF	MTR HP	Output Torque (lb.in.)	Service Class	MTR Bore Code	230/460 VAC 3 Phase 60 Hz
			Input	Output	Gearbox Size K					
175	10 2x5	203	0.67	0.56	HMF1-2K-B5-B5 with F713-5-(B5)	1/2 1/3 1/4	152 101 76	II III III	B5 B5 B5	FUTF EUTF DUTF
		315	1	0.87	HMF1-2K-B5-B5 with F715-5-(B5)	1 3/4 1/2	315 236 158	I II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		380	1.21	1.06	HMF1-2K-B5-B5 with F718-5-(B5)	1 3/4 1/2	315 236 158	I II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		622	1.94	1.73	HMF2-2K-B7-B7 with F721-5-(B7)	2 1 1/2	621 466	I II	B7 B7	KUTF JUTF
					HMF2-2K-B5-B5 with F721-5-(B5)	1	311	III	B5	HUTF-5/8
		850	2.72	2.36	HMF2-2K-B7-B7 with F724-5-(B7)	2 1 1/2	624 468	II II	B7 B7	KUTF JUTF
					HMF2-2K-B5-B5 with F724-5-(B5)	1	312	III	B5	HUTF-5/8
		1140	3.91	3.17	HMF3-2K-B9-B9 with F726-5-(B9)	3	943	I	B9	LUTF
					HMF2-2K-B7-B7 with F726-5-(B7)	2 1 1/2	629 471	II III	B7 B7	KUTF JUTF
		1944	5.98	5.4	HMF3-2K-B9-B9 with F730-5-(B9)	5	1624	I	B9	MUTF
					HMF2-2K-B7-B7 with F730-5-(B7)	3 2	974 650	II III	B7 B7	LUTF KUTF
116.7	15 3x5	211	0.462	0.391	HMF1-3K-B5-B5 with F713-5-(B5)	1/3 1/4	152 114	II III	B5 B5	EUTF DUTF
		337	0.752	0.624	HMF1-3K-B5-B5 with F715-5-(B5)	3/4 1/2 1/3	334 223 148	I II III	B5 B5 B5	GUTF FUTF EUTF
		411	0.902	0.761	HMF1-3K-B5-B5 with F718-5-(B5)	3/4 1/2 1/3	342 228 152	I II III	B5 B5 B5	GUTF FUTF EUTF
		697	1.510	1.291	HMF2-3K-B7-B7 with F721-5-(B7)	1 1/2	691	I	B7	JUTF
					HMF2-3K-B5-B5 with F721-5-(B5)	1 3/4	461 346	II III	B5 B5	HUTF-5/8 GUTF
		962	2.06	1.798	HMF2-3K-B7-B7 with F724-5-(B7)	2 1 1/2	934 700	I II	B7 B7	KUTF JUTF
					HMF2-3K-B5-B5 with F724-5-(B5)	1	467	III	B5	HUTF-5/8
		1313	2.815	2.431	HMF2-3K-B7-B7 with F726-5-(B7)	2 1 1/2	932 700	II III	B7 B7	KUTF JUTF
		2326	4.93	4.31	HMF3-3K-B9-B9 with F730-5-(B9)	3	1414	II	B9	LUTF
					HMF2-3K-B7-B7 with F730-5-(B7)	2	943	III	B7	KUTF
87.5	20 2x10	257	0.426	0.357	HMF1-2K-B5-B5 with F713-10-(B5)	1/3 1/4 1/6	200 151 100	I II III	B5 B5 B5	EUTF DUTF CUTF
		370	0.604	0.514	HMF1-2K-B5-B5 with F715-10-(B5)	1/2 1/3 1/4	306 204 153	I II III	B5 B5 B5	FUTF EUTF DUTF
		510	0.829	0.708	HMF1-2K-B5-B5 with F718-10-(B5)	3/4 1/2 1/3	461 307 205	I II III	B5 B5 B5	GUTF FUTF EUTF
		777	1.26	1.08	HMF2-2K-B5-B5 with F721-10-(B7)	1 3/4 1/2	615 461 307	I II III	B5 B5 B5	HUTF-5/8 GUTF FUTF

* Totally Enclosed, Fan Cooled. For complete motor Catalog Numbers and additional motors, see our Electrical Products Catalog.

Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

Output RPM	Ratio	Flanged Reducers (Gearmotor)								Motors*
		Gear Capacity			Available Models	Ratings				Catalog Nos.
		Output Torque (lb.in.)	HP		F, QC, HF, SF, HQC, RF					
			Input	Output	Gearbox Size K	MTR HP	Output Torque (lb.in.)	Service Class	MTR Bore Code	230/460 VAC 3 Phase 60 Hz
87.5	20 2X10	1130	1.81	1.57	HMF2-2K-B7-B7 with F724-10-(B7)	1 1/2	938	I	B7	JUTF
					HMF2-2K-B5-B5 withF724-10-(B5)	1 3/4	625 469	II III	B5 B5	HUTF-5/8 GUTF
		1515	2.44	2.103	HMF2-2K-B7-B7 with F726-10-(B7)	2 1 1/2	1242 931	I II	B7 B7	KUTF JUTF
					HMF2-2K-B5-B5 with F726-10-(B5)	1	621	III	B5	HUTF-5/8 K
		2370	3.75	3.29	HMF3-2K-B9-B9 with F730-10-(B9)	3	1881	II	B9	LUTF
					HMF2-2K-B7-B7 with F730-10-(B7)	2	1254	III	B7	KUTF
		2660	4.23	3.69	HMF3-2K-B9-B9 with F732-10-(B9)	3	1886	II	B9	LUTF
		3700	5.92	5.14	HMF3-2K-B9-B9 with F738-10-(B9)	5 3	3125 1875	I II	B9 B9	MUTF LUTF
		8037	12.78	11.16	HMF3-2K-B11-B11 with RF752-10-(B11)	10 7 1/2	6286 4714	II III	B11 B11	PUTF NUTF
77.8	22.5 1.5X15	262	0.381	0.32	HMF1-1.5K-B5-B5 with F713-15-(B5)	1/3 1/4 1/6	226 170 113	I II III	B5 B5 B5	EUTF DUTF CUTF
		376	0.546	0.46	HMF1-1.5K-B5-B5 with F715-15-(B5)	1/2 1/3 1/4	337 225 169	I II III	B5 B5 B5	FUTF EUTF DUTF
		472	0.69	0.57	HMF1-1.5K-B5-B5 with F718-15-(B5)	1/2 1/3	334 223	II III	B5 B5	FUTF EUTF
		752	1.09	0.91	HMF1-1.5K-B5-B5 with F721-15-(B5)	1 3/4 1/2	674 506 337	I II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		1060	1.56	1.29	HMF2-1.5K-B7-B7 with F724-15-(B7)	1 1/2	1006	I	B7	JUTF
					HMF2-1.5K-B5-B5 with F724-15-(B5)	1 3/4	671 503	II III	B5 B5	HUTF-5/8 GUTF
		1425	2.07	1.73	HMF2-1.5K-B7-B7 with F726-15-(B7)	2 1 1/2	1353 1014	I II	B7 B7	KUTF JUTF
					HMF2-1.5K-B5-B5 with F726-15-(B5)	1	677	III	B5	HUTF-5/8
		2425	3.51	2.95	HMF3-1.5K-B9-B9 with F730-15-(B9)	3	2039	I	B9	LUTF
					HMF2-1.5K-B7-B7 with F730-15-(B7)	2 1 1/2	1359 1019	II III	B7 B7	KUTF JUTF
		2600	3.74	3.16	HMF3-1.5K-B9-B9 with F732-15-(B9)	3	2053	II	B9	LUTF
		3600	5.14	4.38	HMF3-1.5K-B9-B9 with F738-15-(B9)	5 3	3449 2070	I II	B9 B9	MUTF LUTF
		7700	10.82	9.37	HMF3-1.5K-B11-B11 with RF752-15-(B11)	10 7 1/2	7008 5256	I II	B11 B11	PUTF NUTF
					HMF3-1.5K-B9-B9 with RF752-15-(B9)	5	3504	III	B9	MUTF
		10800	15.18	13.14	HMF3-1.5K-B11-B11 with RF760-15-(B11)	10 7 1/2	7008 5256	II III	B11 B11	PUTF NUTF

* Totally Enclosed, Fan Cooled. For complete motor Catalog Numbers and additional motors, see our Electrical Products Catalog.

C

Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

Output RPM	Ratio	Flanged Reducers (Gearmotor)								Motors*
		Gear Capacity			Available Models	Ratings				Catalog Nos.
		Output Torque (lb.in.)	HP		F, QC, HF, SF, HQC, RF	MTR HP	Output Torque (lb.in.)	Service Class	MTR Bore Code	230/460 VAC 3 Phase 60 Hz
			Input	Output	Gearbox Size K					
70	25 5x5	225	0.307	0.25	HMF1-5K-B5-B5 with F713-5-(B5)	1/4 1/6	183 122	I II	B5 B5	DUTF CUTF
		353	0.486	0.392	HMF1-5K-B5-B5 with F715-5-(B5)	1/2 1/3 1/4	353 242 181	I II III	B5 B5 B5	FUTF EUTF DUTF
		435	0.6	0.483	HMF1-5K-B5-B5 with F718-5-(B5)	1/2 1/3 1/4	362 242 181	I II III	B5 B5 B5	FUTF EUTF DUTF
		756	1.00	0.84	HMF1-5K-B5-B5 with F721-5-(B5)	1 3/4 1/2	758 568 379	I II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		1081	1.394	1.201	HMF1-5K-B5-B5 with F724-5-(B5)	1 3/4 1/2	775 581 388	II II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		1451	1.89	1.612	HMF2-5K-B7-B7 with F726-5-(B7)	1-1/2	1163	II	B7	JUTF
					HMF2-5K-B5-B5 with F726-5-(B5)	1 3/4	775 581	II III	B5 B5	HUTF-5/8 GUTF
		2590	3.41	2.877	HMF2-5K-B7-B7 with F730-5-(B7)	1-1/2 2	1519 1139	II III	B7 B7	JUTF KUTF
58.3	30 2x15	277	0.31	0.256	HMF1-2K-B5-B5 with F713-15-(B5)	1/4 1/6	223 148	I II	B5 B5	DUTF CUTF
		400	0.45	0.37	HMF1-2K-B5-B5 with F715-15-(B5)	1/3 1/4 1/6	297 223 148	II II III	B5 B5 B5	EUTF DUTF CUTF
		510	0.572	0.472	HMF1-2K-B5-B5 with F718-15-(B5)	1/2 1/3 1/4	445 297 223	I II III	B5 B5 B5	FUTF EUTF DUTF
	30 3x10	842	0.96	0.78	HMF1-3K-B5-B5 with F721-10-(B5)	1 3/4 1/2 1/3	842 660 440 293	I II III III	B5 B5 B5 B5	HUTF-5/8 GUTF FUTF EUTF
		1241	1.345	1.148	HMF2-3K-B5-B5 with F724-10-(B5)	1 3/4 1/2	930 698 465	II II III	B5 B5 B5	HUTF GUTF FUTF
		1665	1.82	1.54	HMF2-3K-B7-B7 with F726-10-(B7)	1-1/2	1367	I	B7	JUTF
					HMF2-3K-B5-B5 with F726-10-(B5)	1 3/4	911 684	II III	B5 B5	HUTF GUTF
		2672	2.93	2.472	HMF2-3K-B7-B7 with F730-10-(B7)	2 1-1/2	1823 1367	II III	B7 B7	KUTF JUTF
					HMF2-3K-B5-B5 with F730-10-(B5)	1	911	III	B5	HUTF-5/8
		2890	3.132	2.673	HMF3-3K-B9-B9 with F732-10-(B9)	3	2766	I	B9	LUTF
					HMF2-3K-B7-B7 with F732-10-(B7)	2 1-1/2	1844 1382	II III	B7 B7	KUTF JUTF
		4044	4.432	3.741	HMF3-3K-B9-B9 with F738-10-(B9)	3 2	2734 1823	II III	B9 B9	LUTF KUTF
	30 2x15	8760	9.35	8.103	HMF3-2K-B11-B11 with RF752-15-(B11)	7-1/2	7016	II	B11	NUTF
					HMF3-2K-B9-B9 with RF752-15-(B9)	5 3	4677 1871	II III	B9 B9	MUTF LUTF
		12220	13.06	11.304	HMF3-2K-B11-B11 with RF760-15-(B11)	10 7-1/2	9345 7008	II II	B11 B11	PUTF NUTF
					HMF3-2K-B9-B9 with RF760-15-(B9)	5	4672	III	B9	MUTF

* Totally Enclosed, Fan Cooled. For complete motor Catalog Numbers and additional motors, see our Electrical Products Catalog.

C

@ 1750 RPM Input

Output RPM	Ratio	Flanged Reducers (Gearmotor)								Motors*
		Gear Capacity			Available Models	Ratings				Catalog Nos.
		Output Torque (lb.in.)	HP		F, QC, HF, SF, HQC, RF					
			Input	Output	Gearbox Size K	MTR HP	Output Torque (lb.in.)	Service Class	MTR Bore Code	230/460 VAC 3 Phase 60 Hz
46.7	37.5 1.5 x 25	491	0.49	0.36	HMF1-1.5K-B5-B5 with F718-25-(B5)	1/2 1/3 1/6	491 327 245	I II III	B5 B5 B5	FUTF EUTF CUTF
		792	0.75	0.58	HMF1-1.5K-B5-B5 with F721-25-(B5)	3/4 1/2 1/3	792 528 352	I II III	B5 B5 B5	GUTF FUTF EUTF
		1150	1.06	0.84	HMF1-1.5K-B5-B5 with F724-25-(B5)	1 3/4 1/2	1068 800 534	I II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		1525	1.35	1.11	HMF1-1.5K-B5-B5 with F726-25-(B5)	1 3/4	1109 832	II III	B5 B5	HUTF-5/8 GUTF
		2560	2.37	1.86	HMF2-1.5K-B7-B7 with F730-25-(B7)	2 1-1/2	2118 1589	I II	B7 B7	KUTF JUTF
					HMF2-1.5K-B5-B5 with F730-25-(B5)	1	1059	III	B5	HUTF-5/8
		3000	2.73	2.19	HMF2-1.5K-B7-B7 with F732-25-(B7)	2 1-1/2	2118 1589	II III	B7 B7	KUTF JUTF
43.8	40 4x10	279	0.25	0.194	HMF1-4K-B5-B5 with F713-10-(B5)	1/4 1/6	279 186	I II	B5 B5	DUTF CUTF
		404	0.36	0.28	HMF1-4K-B5-B5 with F715-10-(B5)	1/3 1/4 1/6	372 279 186	I II III	B5 B5 B5	EUTF DUTF CUTF
		566	0.468	0.393	HMF1-4K-B5-B5 with F718-10-(B5)	1/3 1/4	391 293	II III	B5 B5	EUTF DUTF
		880	0.79	0.61	HMF1-4K-B5-B5 with F721-10-(B5)	3/4 1/2 1/3	878 587 391	I II III	B5 B5 B5	GUTF FUTF EUTF
		1298	1.08	0.901	HMF1-4K-B5-B5 with F724-10-(B5)	1 3/4 1/2	1201 900 600	I II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		1754	1.46	1.218	HMF2-4K-B5-B5 with F726-10-(B5)	1 3/4	1201 900	II III	B5 B5	HUTF-5/8 GUTF
		2842	2.36	1.973	HMF2-4K-B7-B7 with F730-10-(B7)	2 1-1/2	2402 1802	I II	B7 B7	KUTF JUTF
					HMF2-4K-B5-B5 with F730-10-(B5)	1	1201	III	B5	HUTF-5/8
		3014	2.51	2.092	HMF2-4K-B7-B7 with F732-10-(B7)	2 1-1/2	2402 1802	II II	B7 B7	KUTF JUTF
		4242	3.52	2.94	HMF3-4K-B9-B9 with F738-10-(B9)	3	3604	I	B9	LUTF
		9413	7.74	6.53	HMF3-4K-B11-B11 with RF752-10-(B11)	7-1/2	9009	I	B11	NUTF
					HMF3-4K-B9-B9 with RF752-10-(B9)	5 3	6006 3604	II III	B9 B9	MUTF LUTF
		15112	12.28	10.49	HMF3-4K-B11-B11 with RF760-10-(B11)	10 7-1/2	12012 9009	II II	B11 B11	PUTF NUTF
					HMF3-4K-B9-B9 with RF760-10-(B9)	5	6006	III	B9	MUTF
38.9	45 3x15	296	0.25	0.183	HMF1-3K-B5-B5 with F713-15-(B5)	1/4 1/6	296 202	II II	B5 B5	DUTF CUTF
		425	0.346	0.262	HMF1-3K-B5-B5 with F715-15-(B5)	1/3 1/4 1/6	408 306 204	I II III	B5 B5 B5	EUTF DUTF CUTF
		545	0.428	0.336	HMF1-3K-B5-B5 with F718-15-(B5)	1/3 1/4 1/6	424 318 212	II II III	B5 B5 B5	EUTF DUTF CUTF
		856	0.66	0.53	HMF1-3K-B5-B5 with F721-15-(B5)	1/2 1/3	652 435	II III	B5 B5	FUTF EUTF

* Totally Enclosed, Fan Cooled. For complete motor Catalog Numbers and additional motors, see our Electrical Products Catalog.

C

Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

Output RPM	Ratio	Flanged Reducers (Gearmotor)								Motors*
		Gear Capacity			Available Models	Ratings				Catalog Nos.
		Output Torque (lb.in.)	HP		F, QC, HF, SF, HQC, RF	MTR HP	Output Torque (lb.in.)	Service Class	MTR Bore Code	230/460 VAC 3 Phase 60 Hz
			Input	Output	Gearbox Size K					
38.9	45 3x15	1279	0.951	0.789	HMF2-3K-B5-B5 with F724-15-(B5)	3/4 1/2	978 652	II III	B5 B5	GUTF FUTF
		1744	1.337	1.076	HMF2-3K-B5-B5 with F726-15-(B5)	1 3/4 1/2	1304 978 652	II III III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		3051	2.319	1.883	HMF2-3K-B7-B7 with F730-15-(B7)	2 1-1/2	2608 1956	I II	B7 B7	KUTF JUTF
					HMF2-3K-B5-B5 with F730-15-(B5)	1	1304	III	B5	HUTF-5/8
		3126	2.34	1.929	HMF2-3K-B7-B7 with F732-15-(B7)	2 1-1/2	2671 2003	I II	B7 B7	KUTF JUTF
					HMF2-3K-B5-B5 wth F732-15-(B5)	1	1304	III	B5	HUT-5/8
		4380	3.24	2.703	HMF3-3K-B9-B9 with F738-15-(B9)	3	4054	I	B9	LUTF
		9913	7.25	6.118	HMF3-3K-B9-B9 with RF752-15-(B9)	5 3	6757 4054	II III	B9 B9	MUTF LUTF
		13874	10.15	8.563	HMF3-3K-B11-B11 with RF752-15-(B11)	10 7-1/2	13514 10135	I II	B11 B11	PUTF NUTF
35	50 5x10	283	0.205	0.157	HMF1-5K-B5-B5 with F713-10-(B5)	1/6	232	I	B5	CUTF
		411	0.296	0.228	HMF1-5K-B5-B5 with F715-10-(B5)	1/4 1/6 1/3	347 232 477	I II I	B5 B5 B5	DUTF CUTF EUTF
		577	0.403	0.32	HMF1-5K-B5-B5 with F718-10-(B5)	1/4 1/6	356 239	II III	B5 B5	DUTF CUTF
		903	0.655	0.501	HMF1-5K-B5-B5 with F721-10-(B5)	1/2 1/3	690 460	II III	B5 B5	FUTF EUTF
		1332	0.89	0.74	HMF2-5K-B5-B5 with F724-10-(B5)	3/4 1/2 1/3	1123 749 499	I II III	B5 B5 B5	GUTF FUTF EUTF
		1807	1.217	1.003	HMF2-5K-B5-B5 with F726-10-(B5)	1 3/4 1/2	1484 1113 742	I II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		2944	2.03	1.635	HMF2-5K-B7-B7 with F730-10-(B7)	2 1-1/2	2898 2174	I II	B7 B7	KUTF JUTF
					HMF2-5K-B5-B5 with F730-10-(B5)	1	1449	III	B5	HUTF-5/8
		3088	2.016	1.715	HMF2-5K-B7-B7 with F732-10-(B7)	2 1-1/2	2968 2226	I II	B7 B7	KUTF JUTF
					HMF2-5K-B5-B5 with F732-10-(B5)	1	1484	III	B5	HUTF-5/8
		4361	2.91	2.422	HMF3-5K-B9-B9 with F738-10-(B9)	3	4361	I	B9	LUTF
					HMF2-5K-B7-B7 with F738-10-(B7)	2 1-1/2	2989 2242	II III	B7	KUTF JUTF
		9695	6.39	5.384	HMF3-5K-B9-B9 with RF752-10-(B9)	5 3	7578 4547	II III	B9	MUTF LUTF
		15757	10.39	8.75	HMF3-5K-B11-B11 with RF760-10-(B11)	10 7-1/2	15155 11366	I II	B11	PUTF NUTF
					HMF3-5K-B9-B9 with RF760-10-(B9)	5	7578	III	B9	MUTF
29.2	60 4x15	302	0.192	0.14	HMF1-4K-B5-B5 with F713-15-(B5)	1/6	262	I	B5	CUTF
		438	0.278	0.203	HMF1-4K-B5-B5 with F715-15-(B5)	1/4 1/6	393 262	I II	B5 B5	DUTF CUTF
		560	0.343	0.259	HMF1-4K-B5-B5 with F718-15-(B5)	1/3 1/4 1/6	524 393 262	I II II	B5 B5 B5	EUTF DUTF CUTF

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Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

Output RPM	Ratio	Flanged Reducers (Gearmotor)								Motors*
		Gear Capacity			Available Models	Ratings				Catalog Nos.
		Output Torque (lb.in.)	HP		F, QC, HF, SF, HQC, RF	MTR HP	Output Torque (lb.in.)	Service Class	MTR Bore Code	230/460 VAC 3 Phase 60 Hz
			Input	Output	Gearbox Size K					
29.2	60 4X15	890	0.525	0.412	HMF1-4K-B5-B5 with F721-15-(B5)	1/2 1/3 1/4	848 566 424	I II III	B5 B5 B5	FUTF EUTF DUTF
		1334	0.796	0.617	HMF2-4K-B5-B5 with F724-15-(B5)	3/4 1/2 1/3	1257 838 556	I II III	B5 B5 B5	GUTF FUTF EUTF
		1838	1.09	0.851	HMF2-4K-B5-B5 with F726-15-(B5)	1 3/4 1/2	1676 1257 838	I II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		3220	1.92	1.49	HMF2-4K-B7-B7 with F730-15-(B7)	1-1/2	2514	I	B7	JUTF
					HMF2-4K-B5-B5 with F730-15-(B5)	1 3/4	1676 1257	II III	B5 B5	HUTF-5/8 GUTF
		3299	1.87	1.53	HMF2-4K-B7-B7 with F732-15-(B7)	1-1/2	2640	II	B7	JUTF
					HMF2-4K-B5-B5 with F732-15-(B5)	1 3/4	1781 1336	II III	B5	HUTF-5/8 GUTF
		4628	2.56	2.14	HMF2-4K-B7-B7 with F738-15-(B7)	2 1-1/2	3562 2671	II II	B7 B7	KUTF JUTF
					HMF2-4K-B5-B5 with F738-15-(B5)	1	1781	III	B5	HUTF-5/8
		10512	5.9	4.86	HMF3-4K-B9-B9 with RF752-15-(B9)	5 3	8905 4343	I III	B9 B9	MUTF LUTF
		14817	8.32	6.86	HMF3-4K-B11-B11 with RF760-15-(B11)	7-1/2 5	13357 8905	I II	B11 B11	NUTF MUTF
					HMF3-4K-B9-B9 with RF760-15-(B9)	3	5343	III	B9	LUTF
23.3	75 5X15	446	0.24	0.165	HMF1-5K-B5-B5 with F715-15-(B5)	1/6	314	II	B5	CUTF
		570	0.289	0.211	HMF1-5K-B5-B5 with F718-15-(B5)	1/4 1/6	491 327	I II	B5 B5	DUTF CUTF
		910	0.434	0.336	HMF1-5K-B5-B5 with F721-15-(B5)	1/3 1/4 1/6	698 524 349	II II III	B5 B5 B5	EUTF DUTF CUTF
		1367	0.66	0.505	HMF2-5K-B5-B5 with F724-15-(B5)	1/2 1/3	1034 690	II III	B5 B5	FUTF EUTF
		1895	0.92	0.701	HMF2-5K-B5-B5 with F726-15-(B5)	3/4 1/2 1/3	1548 1031 688	I II III	B5 B5 B5	GUTF FUTF EUTF
		3221	1.59	1.191	HMF2-5K-B7-B7 with F730-15-(B7)	1-1/2 1	3025 2017	I II	B7	JUTF HUTF-5/8
					HMF2-5K-B5-B5 with F730-15-(B5)	3/4	1512	III	B5	GUTF
		3402	1.58	1.258	HMF2-5K-B7-B7 with F732-15-(B7)	1-1/2 1	3221 2148	I II	B7 B7	JUTF HUTF-5/8
					HMF2-5K-B5-B5 with F732-15-(B5)	3/4	1611	III	B5	GUTF
		4776	2.22	1.766	HMF2-5K-B7-B7 with F738-15-(B7)	2 1-1/2	4295 3221	I II	B7 B7	KUTF JUTF
					HMF2-5K-B5-B5 with F738-15-(B5)	1	2148	III	B5	HUTF-5/8
		10872	5.05	4.019	HMF3-5K-B9-B9 with RF752-15-(B9)	5 3	10738 6443	I II	B9 B9	MUTF LUTF
		15383	6.98	5.687	HMF3-5K-B9-B9 with RF760-15-(B9)	5 3	11000 6600	II III	B9 B9	MUTF LUTF
21.9	80 4X20	448	0.228	0.156	HMF1-4K-B5-B5 with F715-20-(B5)	1/6	326	II	B5	CUTF
		627	0.303	0.218	HMF1-4K-B5-B5 with F718-20-(B5)	1/4 1/6	517 344	I II	B5 B5	DUTF CUTF

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C

Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

Output RPM	Ratio	Flanged Reducers (Gearmotor)								Motors*
		Gear Capacity			Available Models	Ratings				Catalog Nos.
		Output Torque (lb.in.)	HP		F, QC, HF, SF, HQC, RF	MTR HP	Output Torque (lb.in.)	Service Class	MTR Bore Code	230/460 VAC 3 Phase 60 Hz
			Input	Output	Gearbox Size K					
21.9	80 4x20	936	0.45	0.33	HMF1-4K-B5-B5 with F721-20-(B5)	1/3 1/4 1/6	698 524 349	II II III	B5 B5 B5	EUTF DUTF CUTF
		1395	0.657	0.485	HMF2-4K-B5-B5 with F724-20-(B5)	1/2 1/3	1062 707	II III	B5 B5	FUTF EUTF
		1864	0.8	0.648	HMF2-4K-B5-B5 with F726-20-(B5)	3/4 1/2 1/3	1697 1131 754	I II III	B5 B5 B5	GUTF FUTF EUTF
		3100	1.22	1.077	HMF2-4K-B5-B5 with F730-20-(B5)	1 3/4 1/2	2514 1886 1256	II II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		3677	1.646	1.278	HMF2-4K-B7-B7 withF732-20-(B7)	1-1/2	3352	I	B7	JUTF
					HMF2-4K-B5-B5 with F732-20-(B5)	1 3/4	2234 1676	II III	B5	HUTF-5/8 GUTF
		5285	2.337	1.836	HMF2-4K-B7-B7 with F738-20-(B7)	2 1-1/2	4525 3394	I II	B7 B7	KUTF JUTF
					HMF2-4K-B5-B5 with F738-20-(B5)	1	2263	III	B5	HUTF-5/8
		10450	4.68	3.63	HMF3-4K-B9-B9 with RF752-20-(B9)	3	6705	II	B9	LUTF
		15140	6.56	5.261	HMF3-4K-B9-B9 with RF760-20-(B9)	5 3	11537 6922	II III	B9 B9	MUTF LUTF
17.5	100 5x20	457	0.19	0.127	HMF1-5K-B5-B5 with F715-20-(B5)	1/6	402	I	B5	CUTF
		643	0.259	0.179	HMF1-5K-B5-B5 with F718-20-(B5)	1/4 1/6	620 413	I II	B5 B5	DUTF CUTF
		957	0.37	0.27	HMF1-5K-B5-B5 with F721-20-(B5)	1/3 1/4 1/6	861 646 431	I II III	B5 B5 B5	EUTF DUTF CUTF
		1435	0.562	0.398	HMF2-5K-B5-B5 with F724-20-(B5)	1/2 1/3 1/4	1275 850 637	I II III	B5 B5 B5	FUTF EUTF DUTF
		1912	0.68	0.531	HMF2-5K-B5-B5 with F726-20-(B5)	1/2 1/3	1379 1000	II III	B5 B5	FUTF EUTF
		3225	1.15	0.895	HMF2-5K-B5-B5 with F730-20-(B5)	1 3/4 1/2	2759 2069 1379	I II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		3721	1.4	1.003	HMF2-5K-B5-B5 with F732-20-(B5)	1 3/4 1/2	2654 1990 1327	II II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		5418	2.01	1.504	HMF2-5K-B7-B7 with F738-20-(B7)	2 1-1/2	5378 4033	I II	B7 B7	KUTF JUTF
					HMF2-5K-B5-B5 with F738-20-(B5)	1	2689	III	B5	HUTF-5/8
		10744	3.89	2.98	HMF3-5K-B9-B9 with RF752-20-(B9)	3	8276	II	B9	LUTF K
		15622	5.43	4.338	HMF3-5K-B9-B9 with RF760-20-(B9)	5 3	13968 8381	I II	B9 B9	MUTF LUTF
14	125 5X25	609	0.205	0.135	HMF1-5K-B5-B5 with F718-25-(B5)	1/6	495	I	B5	CUTF
		933	0.31	0.21	HMF1-5K-B5-B5 with F721-25-(B5)	1/4 1/6	917 611	I II	B5 B5	DUTF CUTF
		1407	0.46	0.313	HMF2-5K-B5-B5 with F724-25-(B5)	1/3 1/4 1/6	1018 764 509	II II III	B5 B5 B5	EUTF DUTF CUTF
		1937	0.59	0.43	HMF2-5K-B5-B5 with F726-25-(B5)	1/2 1/3 1/4	1637 1091 818	I II III	B5 B5 B5	FUTF EUTF DUTF

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@ 1750 RPM Input

Output RPM	Ratio	Flanged Reducers (Gearmotor)								Motors*
		Gear Capacity			Available Models	Ratings				Catalog Nos.
		Output Torque (lb.in.)	HP		F, QC, HF, SF, HQC, RF	MTR HP	Output Torque (lb.in.)	Service Class	MTR Bore Code	230/460 VAC 3 Phase 60 Hz
			Input	Output	Gearbox Size K					
14	125 5x25	3158	0.95	0.701	HMF2-5K-B5-B5 with F730-25-(B5)	1 3/4 1/2	3158 2423 1615	I II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		3373	1.1	0.75	HMF2-5K-B5-B5 with F732-25-(B5)	1 3/4 1/2	3230 2423 1615	I II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
11.7	150 5x30	663	0.186	0.123	HMF1-5K-B5-B5 with F718-30-(B5)	1/6	594	I	B5	CUTF
		977	0.28	0.18	HMF1-5K-B5-B5 with F721-30-(B5)	1/4 1/6	877 585	I II	B5 B5	DUTF CUTF
		1415	0.404	0.263	HMF2-5K-B5-B5 with F724-30-(B5)	1/3 1/4 1/6	1170 877 585	I II III	B5 B5 B5	EUTF DUTF CUTF
		1969	0.562	0.366	HMF2-5K-B5-B5 with F726-30-(B5)	1/2 1/3 1/4	1756 1170 877	I II III	B5 B5 B5	FUTF EUTF DUTF
		3404	1.002	0.632	HMF2-5K-B5-B5 with F730-30-(B5)	1 3/4 1/2	3404 2553 1702	I II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		3788	1.1	0.73	HMF2-5K-B5-B5 with F732-30-(B5)	1 3/4 1/2	3404 2553 1702	I II III	B5 B5 B5	HUTF-5/8 GUTF FUTF
		5303	1.39	0.984	HMF2-5K-B5-B5 with F738-30-(B5)	1 3/4	3824 2868	II II	B5 B5	HUTF-5/8 GUTF
		11381	3.11	2.113	HMF3-5K-B9-B9 with RF752-30-(B9)	3	11000	II	B9	LUTF
		15932	4.08	2.958	HMF3-5K-B9-B9 with RF760-30-(B9)	3	11000	II	B9	LUTF
8.8	200 5x40	643	0.162	0.089	HMF1-5K-B5-B5 with F718-40-(B5)	1/6	640	I	B5	CUTF
		957	0.25	0.13	HMF1-5K-B5-B5 with F721-40-(B5)	1/4 1/6	950 640	I II	B5 B5	DUTF CUTF
		1435	0.35	0.199	HMF2-5K-B5-B5 with F724-40-(B5)	1/3 1/4 1/6	1327 995 663	I II III	B5 B5 B5	EUTF DUTF CUTF
		1912	0.464	0.265	HMF2-5K-B5-B5 with F726-40-(B5)	1/3 1/4	1374 1030	II III	B5 B5	EUTF DUTF
		3303	0.775	0.459	HMF2-5K-B5-B5 with F730-40-(B5)	3/4 1/2 1/3	3195 2130 1420	I II III	B5 B5 B5	GUTF FUTF EUTF
		3636	0.8	0.505	HMF2-5K-B5-B5 with F732-40-(B5)	3/4 1/2 1/3	3405 2270 1513	I II III	B5 B5 B5	GUTF FUTF EUTF
		5418	1.17	0.752	HMF2-5K-B5-B5 with F738-40-(B5)	1 3/4 1/2	4609 3457 2305	I II III	B5 B5 B5	HUTF-5/8 CUTF FUTF
		15623	3.19	2.169	HMF3-5K-B9-B9 with F760-40-(B9)	3	14457	I	B9	LUTF

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Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

Output RPM	Ratio	Flanged Reducers (Gearmotor)								Motors*
		Gear Capacity			Available Models	Ratings				Catalog Nos.
		Output Torque (lb.in.)	HP		F, QC, HF, SF, HQC, RF					
			Input	Output	Gearbox Size K	MTR HP	Output Torque (lb.in.)	Service Class	MTR Bore Code	230/460 VAC 3 Phase 60 Hz
7	250 5x50	915	0.18	0.10	HMF1-5K-B5-B5 with F721-50-(B5)	1/6	844	I	B5	CUTF
		1340	0.274	0.149	HMF2-5K-B5-B5 with F724-50-(B5)	1/4 1/6	1222 814	I II	B5 B5	DUTF CUTF
		1848	0.359	0.205	HMF2-5K-B5-B5 with F726-50-(B5)	1/3 1/4 1/6	1717 1288 858	I II III	B5 B5 B5	EUTF DUTF CUTF
		3008	0.604	0.334	HMF2-5K-B5-B5 with F730-50-(B5)	1/2 1/3 1/4	2488 1659 1244	I II III	B5 B5 B5	FUTF EUTF DUTF
		3210	0.634	0.356	HMF2-5K-B5-B5 with F732-50-(B5)	1/2 1/3	2488 1659	II III	B5 B5	FUTF EUTF
		4373	0.862	0.486	HMF2-5K-B5-B5 with F738-50-(B5)	3/4 1/2 1/3	3798 2532 1688	I II III	B5 B5 B5	GUTF FUTF EUTF
5.8	300 5x60	877	0.17	0.08	HMF1-5K-B5-B5 with F721-60-(B5)	1/6	873	I	B5	CUTF
		1255	0.239	0.116	HMF2-5K-B5-B5 with F724-60-(B5)	1/6	873	II	B5	CUTF
		1725	0.31	0.16	HMF2-5K-B5-B5 with F726-60-(B5)	1/4 1/6	1388 925	II II	B5 B5	DUTF
		2868	0.43	0.265	HMF2-5K-B5-B5 with F730-60-(B5)	1/3 1/4	2200 1650	II II	B5 B5	EUTF DUTF
					HMF2-5K-B5-B5 with F730-60-(B5)	1/6	1100	III	B5	CUTF
		3015	0.522	0.278	HMF2-5K-B5-B5 with F732-60-(B5)	1/2 1/3 1/6	2881 1921 1440	I II III	B5 B5 B5	FUTF EUTF CUTF
		4272	0.73	0.395	HMF2-5K-B5-B5 with F738-60-(B5)	3/4 1/2 1/3	4272 2933 1955	I II III	B5 B5 B5	GUTF FUTF EUTF

* Totally Enclosed, Fan Cooled. For complete motor Catalog Numbers and additional motors, see our Electrical Products Catalog.

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