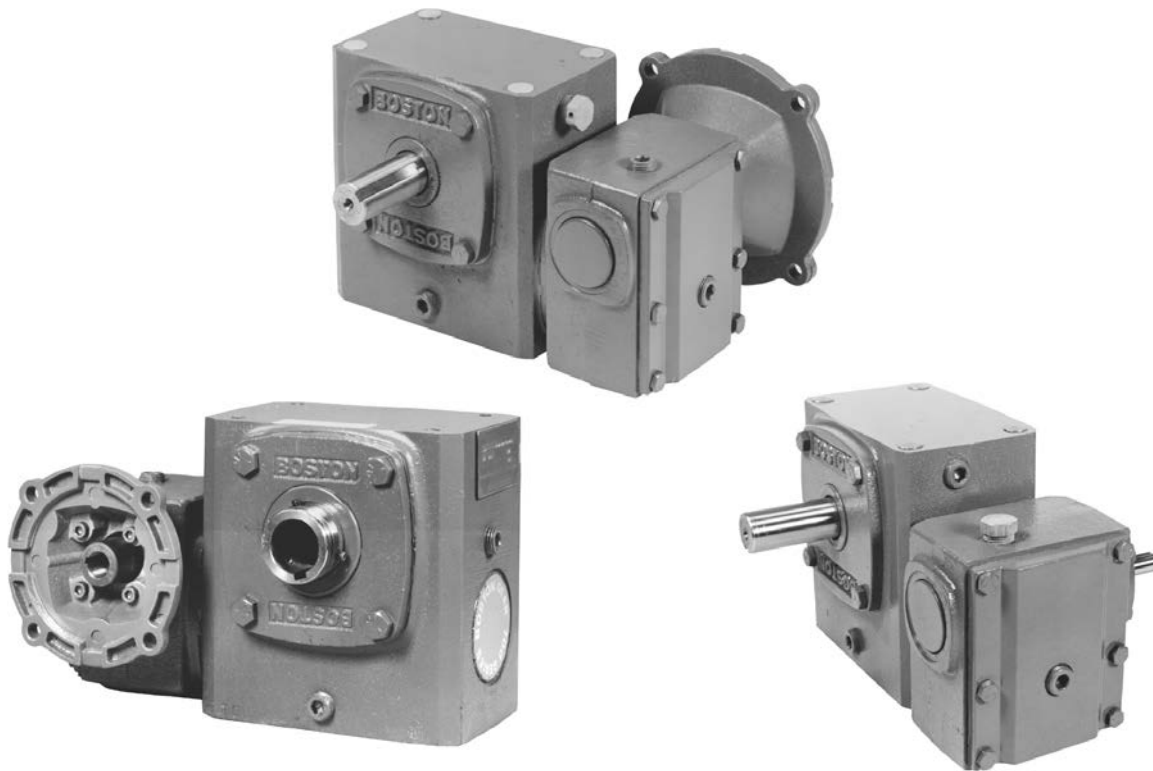


# 700 Series Double Reduction Worm Gear Reducers



B

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**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 Multiplier

**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

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

**Vent**

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

**Endcap (732-760 only)**

E – Endcap (standard)

**Oil Seal**

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

**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)

## 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

# 700 Series Worm Gear Speed Reducers

HS 1 - P24 -

### BestMount 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

<b>G</b>	Output Projection Opposite Input
<b>H</b>	Double Output Projection
<b>J</b>	Output Projection Same Side as Input
<b>GS</b>	Stainless Output Projection Opposite Input
<b>HS</b>	Stainless Double Output Projection
<b>JS</b>	Stainless Output Projection Same Side as Input

#### Double Reduction WA and WB Mirrored Design

<b>K</b>	Output Projection Opposite Input
<b>L</b>	Double Output Projection
<b>M</b>	Output Projection Same Side as Input
<b>KS</b>	Stainless Output Projection Opposite Input
<b>LS</b>	Stainless Double Output Projection
<b>MS</b>	Stainless Output Projection Same Side as Input

#### Double Reduction WC and WD (When facing Input)

<b>G</b>	Output Projection Down
<b>H</b>	Double Output Projection
<b>J</b>	Output Projection Upward
<b>GS</b>	Stainless Output Projection Down
<b>HS</b>	Stainless Double Output Projection
<b>JS</b>	Stainless Output Projection Upward

#### Double Reduction WC and WD (When facing Input) Mirrored Design

<b>K</b>	Output Projection Down
<b>L</b>	Double Output Projection
<b>M</b>	Output Projection Upward
<b>KS</b>	Stainless Output Projection Down
<b>LS</b>	Stainless Double Output Projection
<b>MS</b>	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
1.5 HP	B7		HUTF-IDB
	B7		JUTFB
	B7		JUTF-SS
2 HP	B7		JUTF-IDB
	B7		KUTF5/8B
	B7		KUTFB
	B7		KUTF-SS
3 HP	B9		KUTF-IDB
	B9		LUTFB
	B9		LUTF-SS
5 HP	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-** 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 Compensating 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.

# Double Reduction Speed Reducer Selection Procedure

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

## 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.

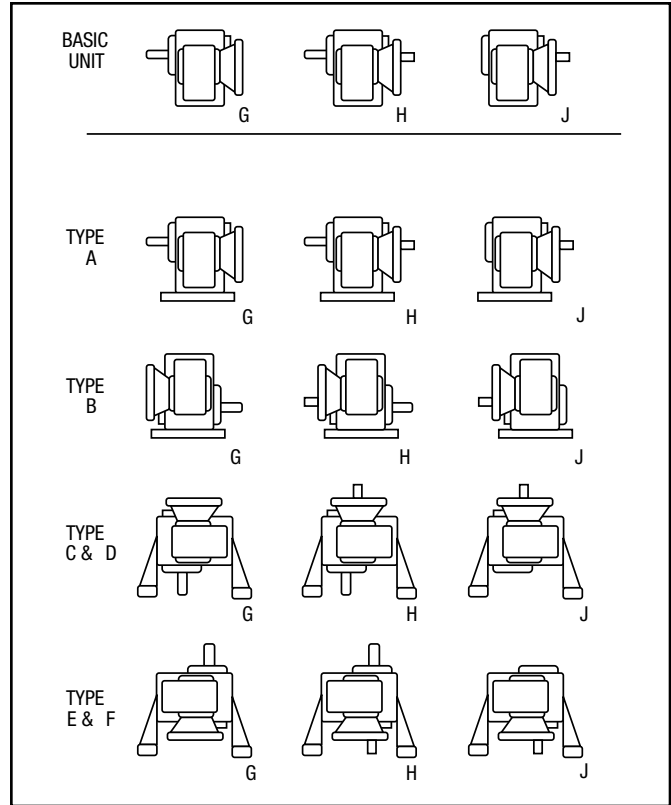
Types “C” and “E” are vertical high bases and Types “D” and “F” are vertical low bases.

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.

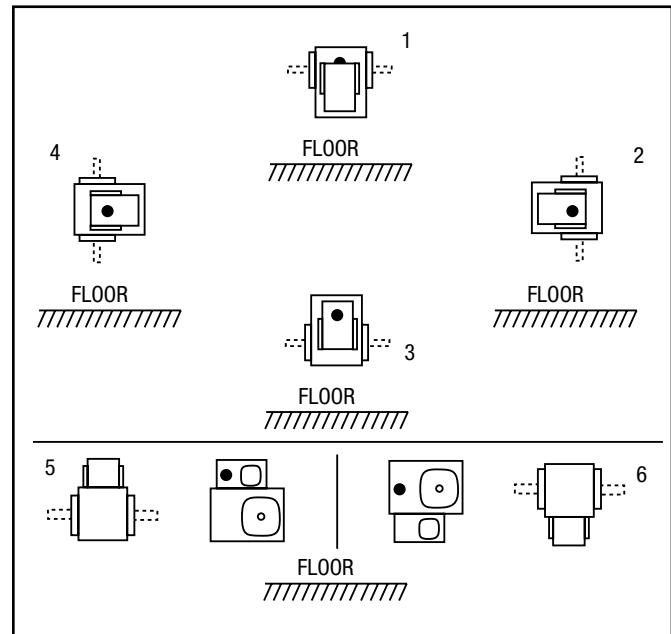
Vented oil filler plug must be located in the uppermost position.

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.

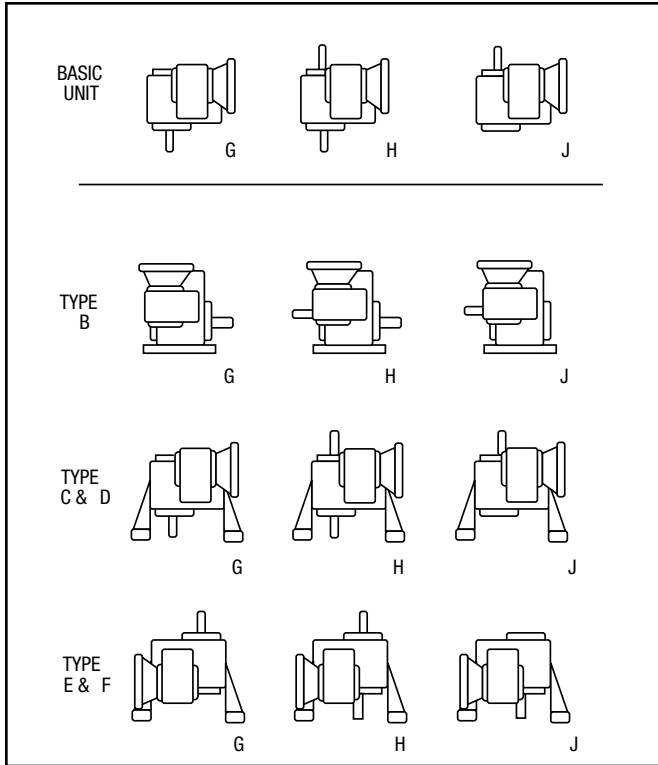
### CAUTION

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

B



# Flanged Reducer Assemblies and Mounting Positions



## 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.

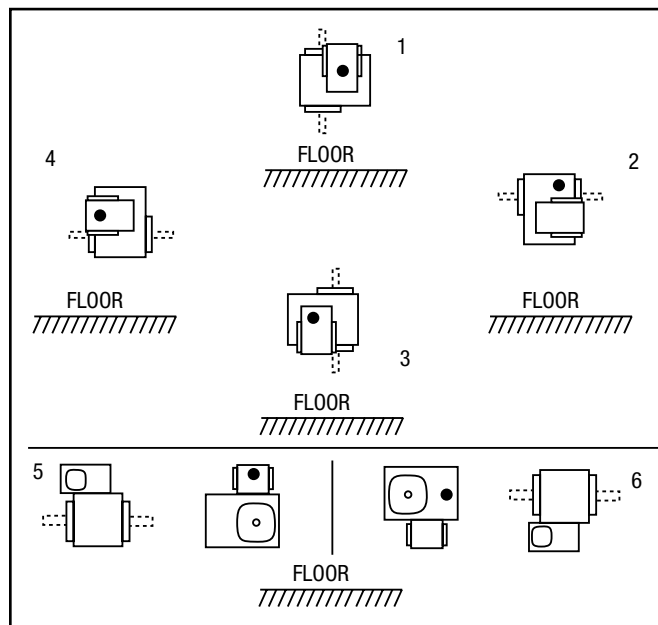
Basic models and separate base kits are supplied unless otherwise specified. Assembly “H” available at a slight additional charge.

**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 – HFHC/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.**

# Non-Flanged Reducer Assemblies and Mounting Positions

## 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.

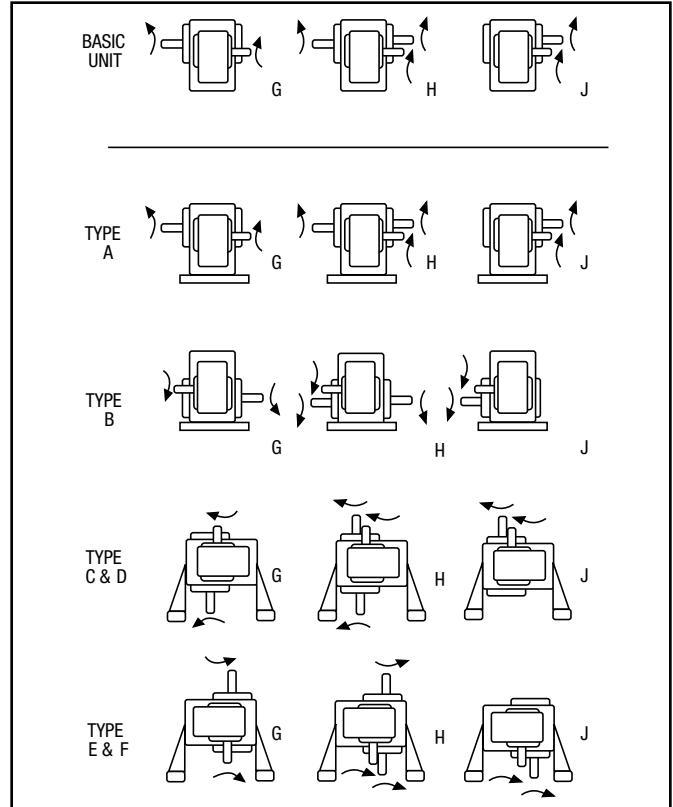
Types “C” and “E” are vertical high bases and types “D” and “F” are vertical low bases.

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.

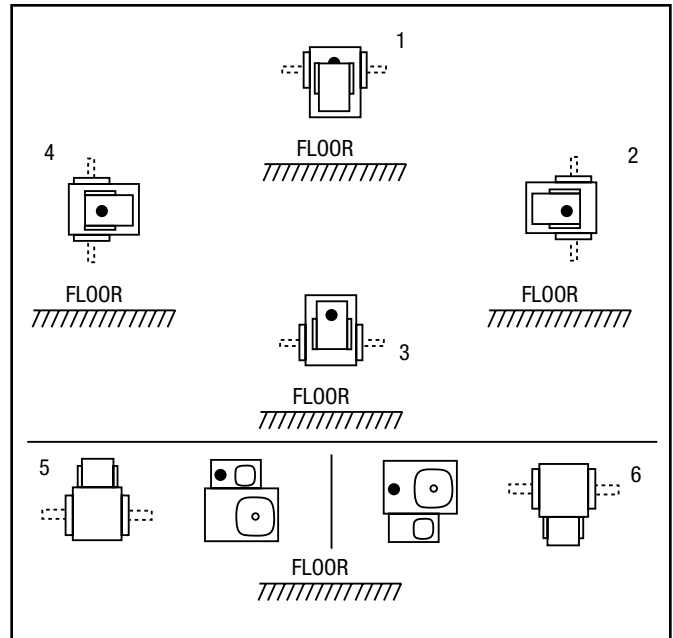
Vented oil filler plug must be located in the uppermost position.

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.

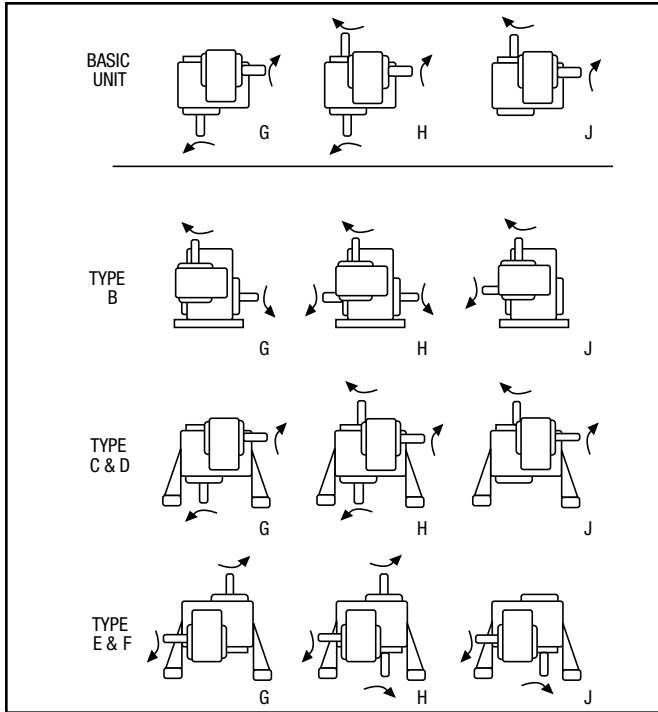
### CAUTION

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

B



# Non-Flanged Reducer Assemblies and Mounting Positions



## 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.

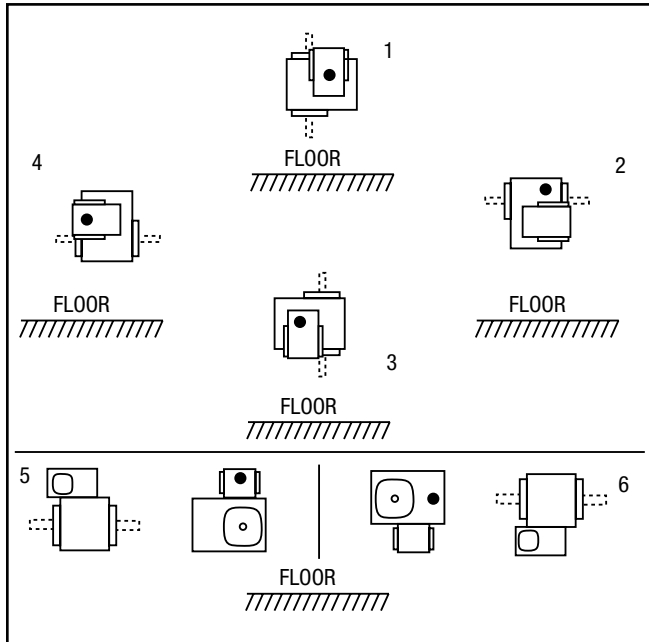
Basic models and separate base kits are supplied unless otherwise specified. Assembly “H” available at a slight additional charge.

**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.

## ENCLOSED WORM GEAR REDUCERS

Recommended Oil (or equivalent)	Viscosity Range SUS @ 100°F	Oil Type	ISO Viscosity Grade No.†
Klubersynth UH1 6-460* Synthetic	1950/2500	PAG	460
Mobil SHC634 Synthetic	1950/2500	PAO	320/460

Ambient temperature range of -20F to +125F is suitable for standard configured products and ratings. Contact technical support for operating conditions beyond this range.

**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.

## WORM GEAR LUBRICANT AVAILABLE FROM BOSTON GEAR

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

## 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.

B

# 700 Series Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

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



# 700 Series Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

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

# 700 Series Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

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



# 700 Series Double Reduction Output RPM & Capacity Selection Tables

## @ 1750 RPM Input

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

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\*\* Totally Enclosed, Fan Cooled. For complete motor Catalog Numbers and additional motors, see Pages 337 and 340.

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# Other ratios available. Contact factory for information.



# 700 Series Double Reduction Output RPM & Capacity Selection Tables

@ 1750 RPM Input

Output RPM	Ratio#	Non-Flanged Reducers				Gearmotor						Bore Code	Motors**		
		Gear Capacity			Size*	Ratings			Available Styles†				Cat. Nos.		
		Output Torque (lb.in.)	HP			Motor HP	Output Torque (lb.in.)	Service Class	F	QC	HF			SF	HQC
			Input	Output									230/460 VAC 3 Phase 60 Hz		
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	11760	I						B5	EUTF	
					1/4	8640	II					B5	DUTF		
1/6	5760	III					B5	CUTF							
17280	.41	.16	W760-3000	1/2	17280	I						B5	FUTF		
				1/3	12270	II				B5	EUTF				
				1/4	8640	III				B5	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

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# Other ratios available. Contact factory for information.



# 700 Series Double Reduction Flanged Reducer Dimensions

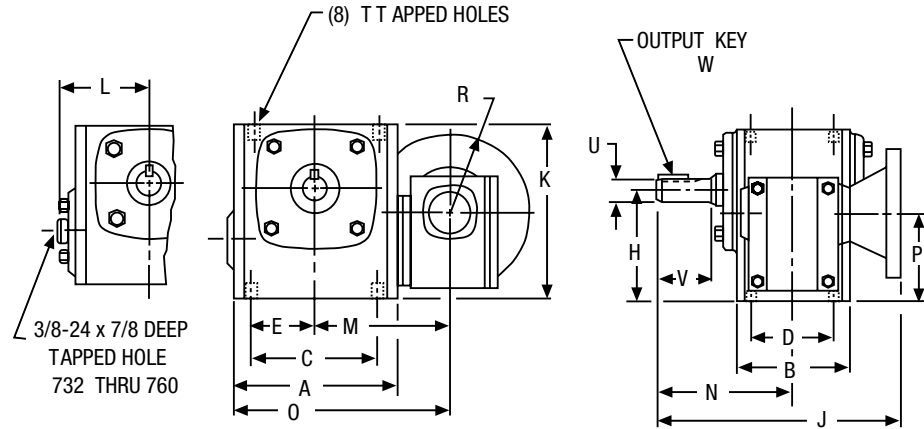
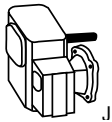
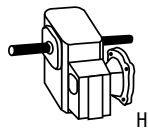
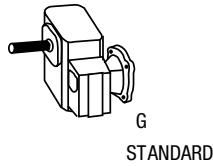
## FWA700/QCWA700 Series Flanged Quill/Flanged Coupling Types

### Basic Models (No Base); Parallel Shafts

FOR ORDERING INFORMATION, see Page 56.

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

ASSEMBLY  
TYPES\*



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		FWA	QCWA	
									Sq.	Length			
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.

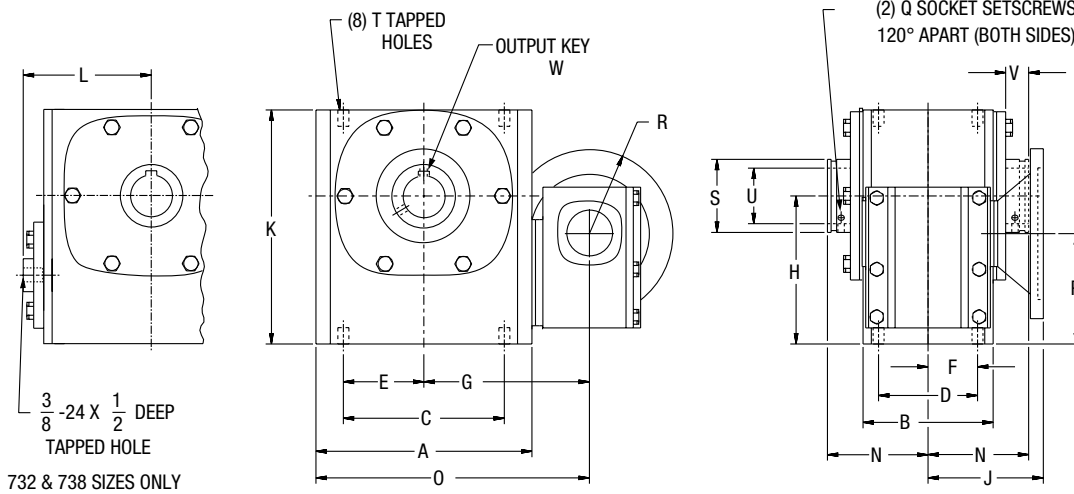
**Note:** For base dimensions see Single Reduction Flanged Reducer Dimension pages.

# 700 Series Double Reduction Flanged Reducer Dimensions

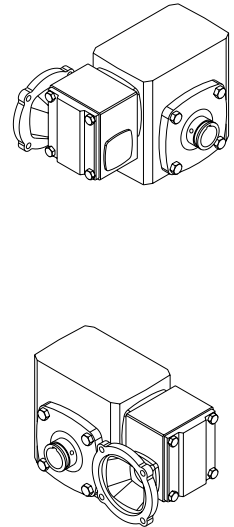
## HFWA700/HQCWA700 Series Flanged Quill/Flanged Coupling Types Basic Models (No Base); Parallel Shafts; Bored to Size Hollow Output

FOR ORDERING INFORMATION, see Page 56.

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



### ASSEMBLY TYPES\*



ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H	J-NEMA Mounting				K	L	N
									FWA700		QCWA700				
									42CZ	56C 140TC	42CZ	56C 140TC			
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			T		Low Speed Shaft			Approx. Weight (LBS.)		
				42CZ	56C 140TC	S	Tap Size	Depth	Max U +.0015 -0.000	V	W-Key		HFWA	HQCWA
											Sq.	Length		
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

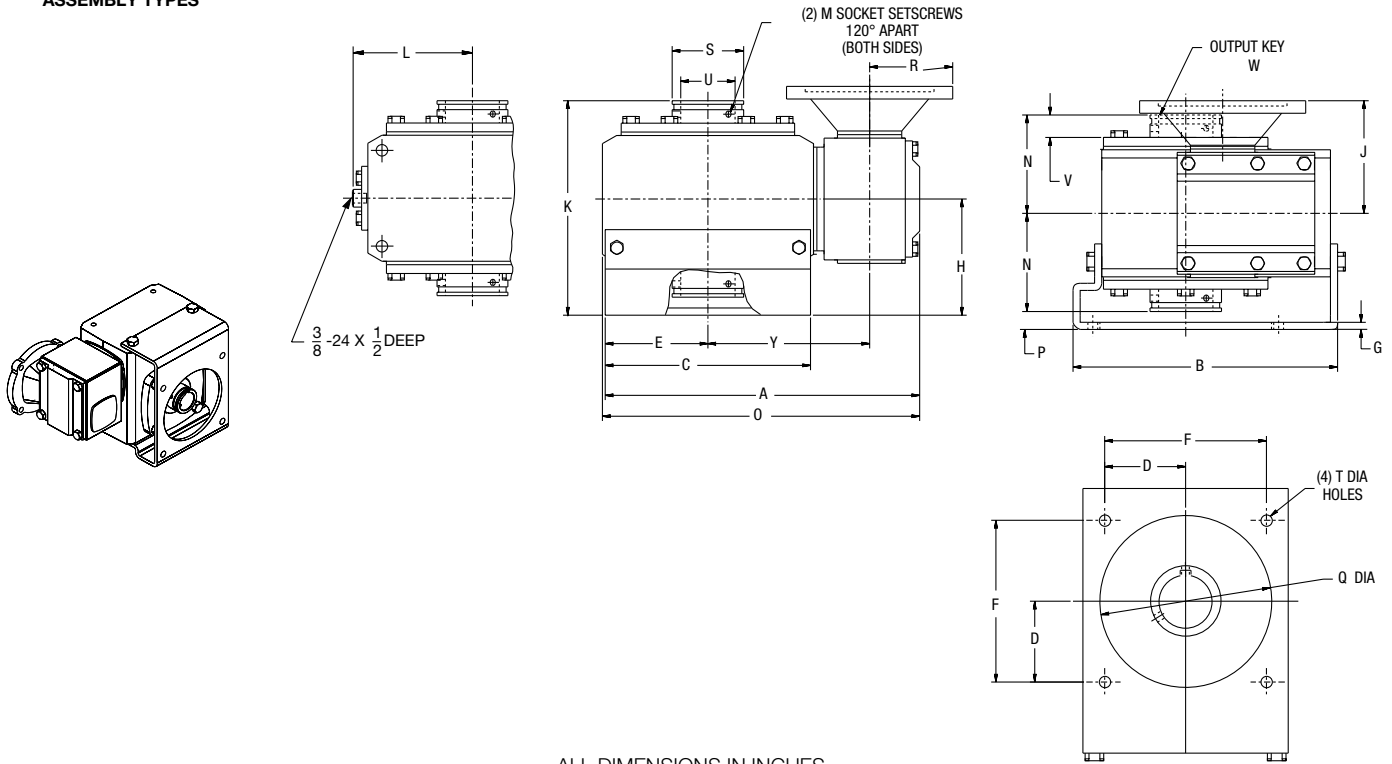
## HFWA700/HQCWA700 Series Flanged Quill/Flanged Coupling Types

### 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				K	L	M	N
									HFWA700		HQCWA700					
									42CZ	56C 140TC	42CZ	56C 140TC				
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		S	T Holes	Low Speed Shaft				Y	Approx. Weight (LBS.)	
				42CZ	56C 140TC			Max U +.0015 -0.0000	V	W-Key			HFWA	HQCWA
										Size	Length			
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.

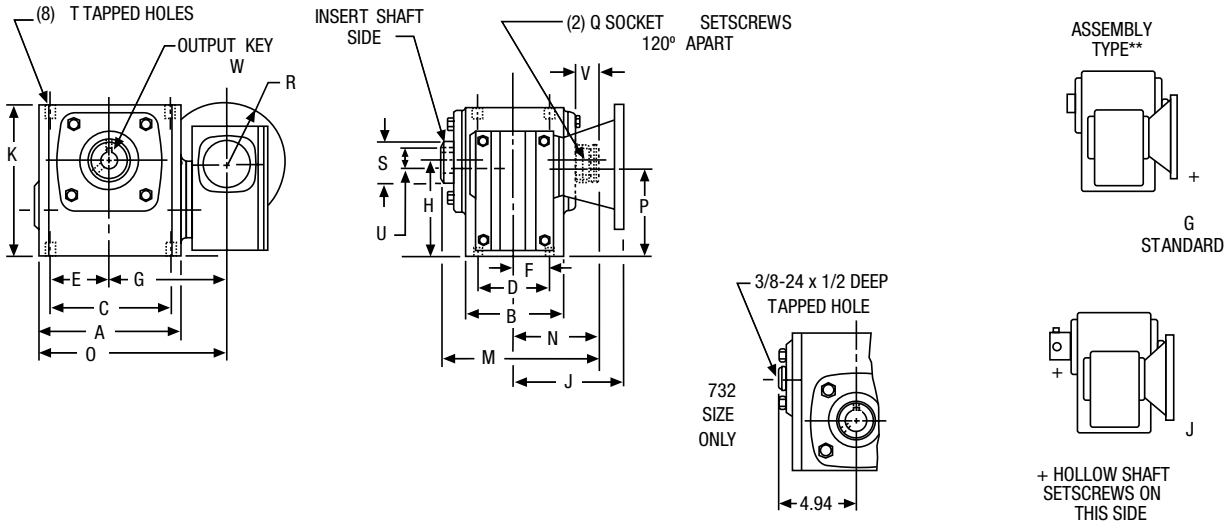
Input may be rotated clockwise or counterclockwise.

# 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		K	M	N
									SFWA				
									42CZ	56C 140TC			
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		S	T		Low Speed Shaft			Approx. Weight (LBS.)
				42CZ	56C 140TC		Tap Size	Depth	U +.0015 -.000	V	W-Key	
				Sq.	Length						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.

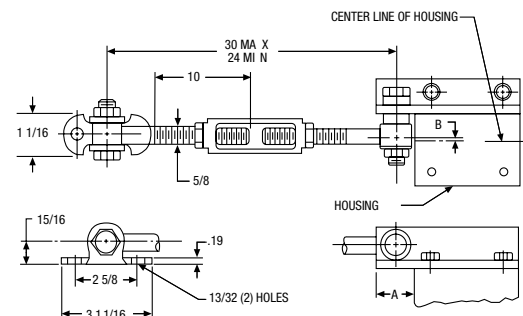
**Note:** For base dimensions see Single Reduction Flanged Reducer Dimension pages. See Assemblies and Mounting Positions, Page 72.

## 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.



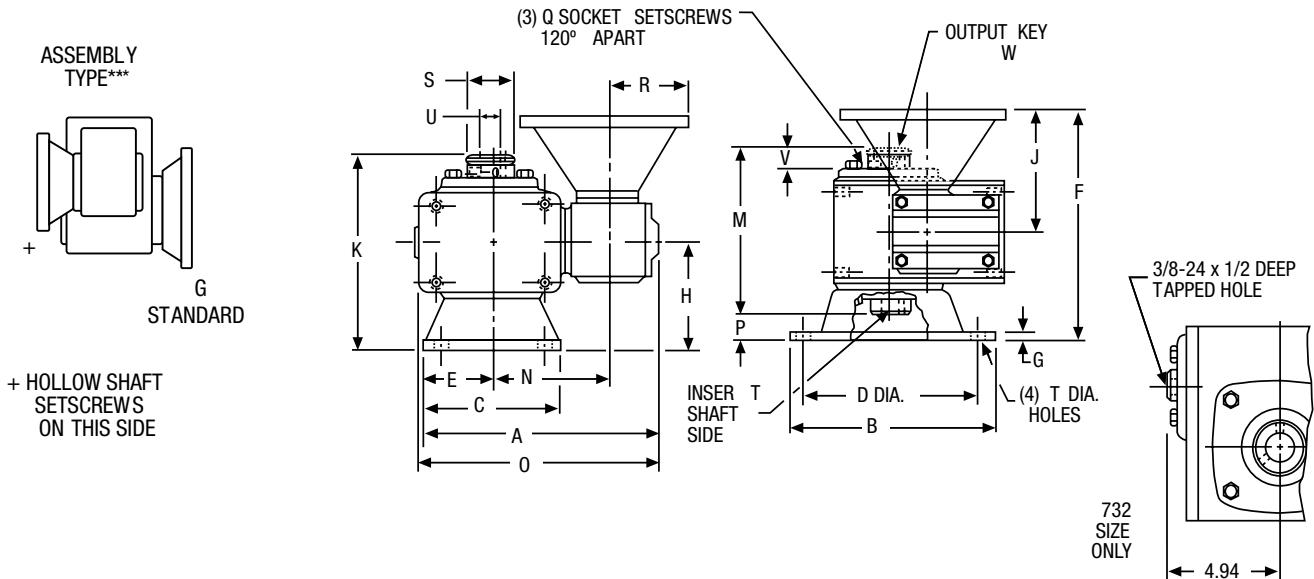
# 700 Series Double Reduction Flanged Reducer Dimensions

## 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.



ALL DIMENSIONS IN INCHES

Size	A	B	C	D DIA.	E	G	H	J-NEMA Mounting		K	M	N
								SFWA				
								42CZ	56C 140TC			
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		S	T Holes	Low Speed Shaft			Approx. Weight (LBS.)
				42CZ	56C 140TC			U +.0015 -.000	V	W-Key	
										Size	Length
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.

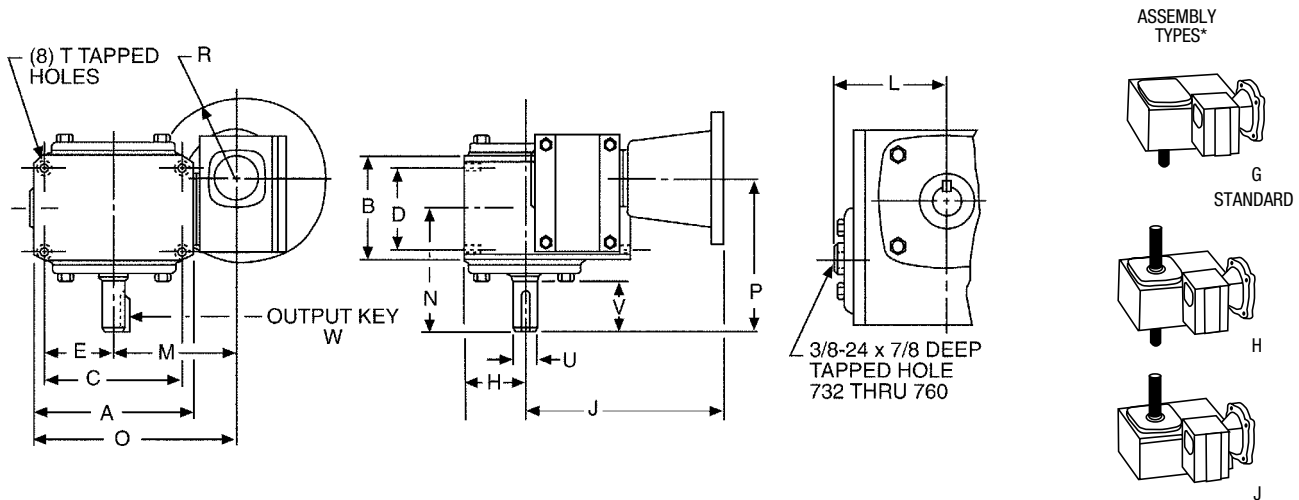


# 700 Series Double Reduction Flanged Reducer Dimensions

## 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.



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. †	
		42CZ	56C 140TC	180TC 210C	Tap Size	Depth	U +.000 -.001	V	W-Key		FWA	QCWC	High	Low
									Sq.	Length				
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

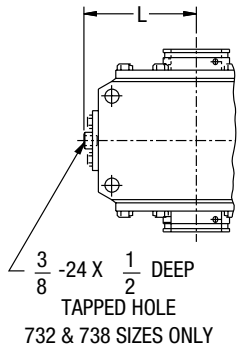
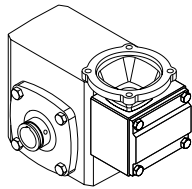
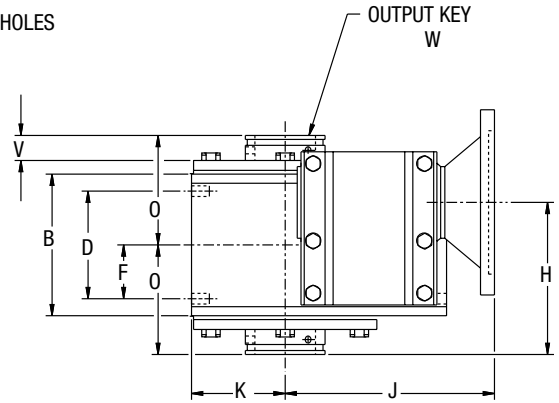
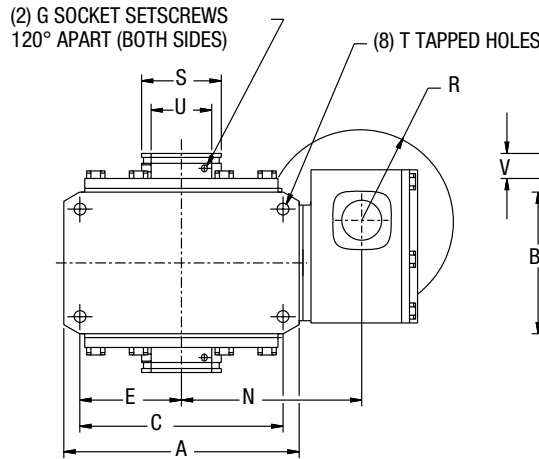
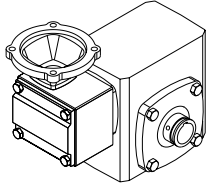
## HFWC700/HQCWC700 Series Flanged Quill/Flanged Coupling Types

### 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.

ASSEMBLY TYPES\*



ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H	J-NEMA Mounting				K	L
									HFWC		HQCWC			
									42CZ	56C 140TC	42CZ	56C 140TC		
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		S	T		Low Speed Shaft			Approx. Weight (LBS.)		
			42CZ	56C 140TC		Tap Size	Depth	Max U +.0015 -.0000	V	W-Key		HFWC	HQCWC
										Size	Length		
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 128 For Key Information	37	39	
726	5.66	3.44	—	3.31	2.50	3/8-16	.56	1.9375	.78		60	67	
730	6.12	4.19	—	3.31	2.88	7/16-14	.88	2.1875	1.10		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.

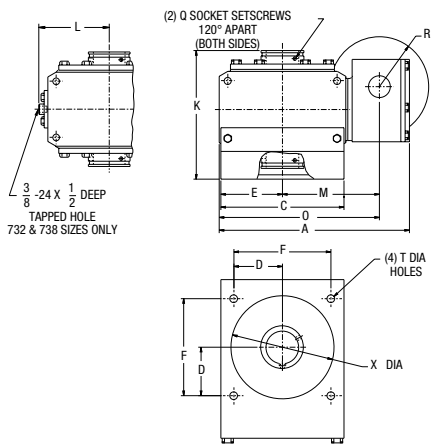
Note: For base dimensions see Single Reduction Flanged Reducer Dimension pages. See Page 128 for available bore sizes.

# 700 Series Double Reduction Flanged Reducer Dimensions

## HFWC700/HQCWC700 Series Flanged Quill/Flanged Coupling Types R/L Position Mounting Bracket; Right Angle Shafts; Bored to Size Hollow Output

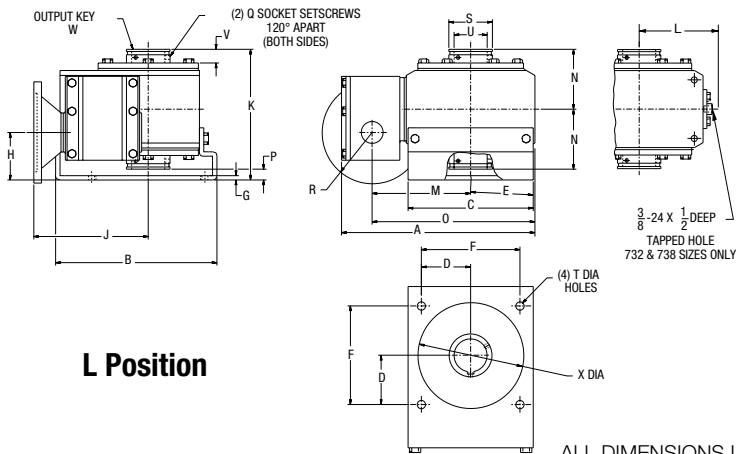
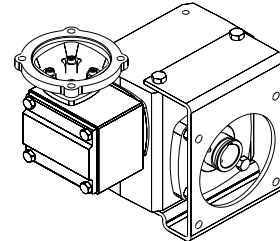
FOR ORDERING INFORMATION, see Page 56.

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

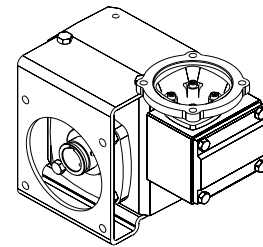


**R Position**

**ASSEMBLY TYPES\***



**L Position**



ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H		J-NEMA Mounting				K	L	M
								R Model	L Model	HFWC		HQCWC				
										42CZ	56C 140TC	42CZ	56C 140TC			
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		S	T Holes	Low Speed Shaft			X	Approx. Weight (LBS.)		
					42CZ	56C 140TC			Max U +.0015 -0.0000	V	W-Key		HFWC	HQCWC	
											Size				Length
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 128 For Key Information	4.50	42	47	
726	3.44	9.35	.62	5/16-24	—	3.31	2.50	13/32	1.9375	.78		6.00	56	80	
730	4.19	10.18	.31	5/16-24	—	3.31	2.88	13/32	2.1875	1.10		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.



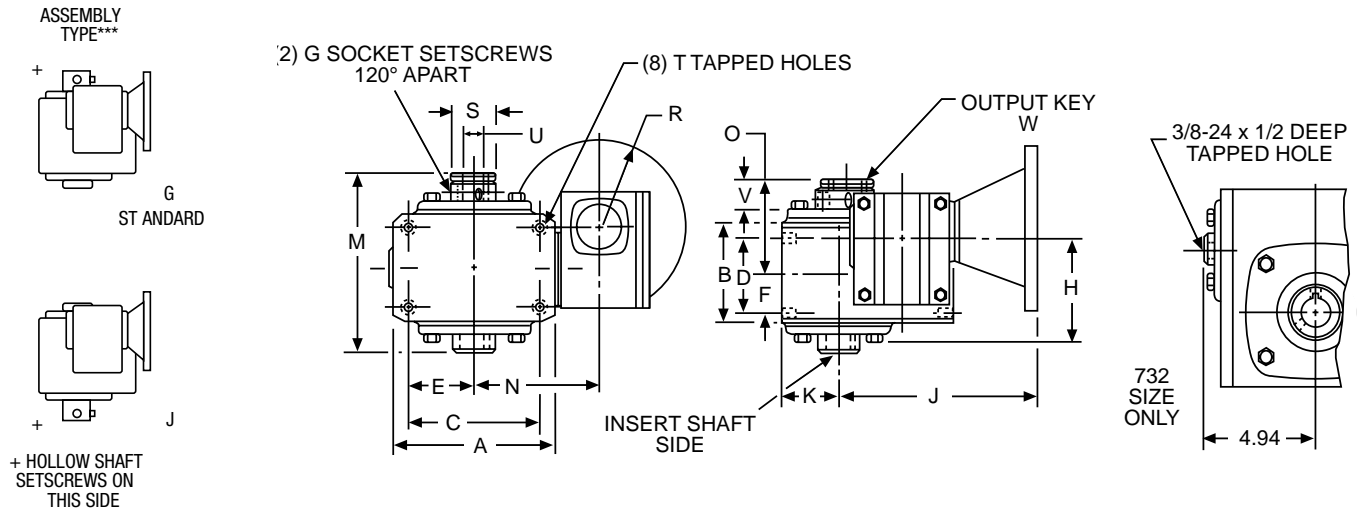
# 700 Series Double Reduction Flanged Reducer Dimensions

## 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.



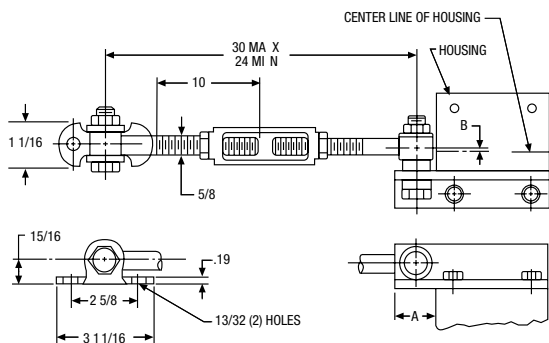
ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H	J-NEMA Mounting		K	M
									SFWC			
									42CZ	56C 140TC		
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		S	T		Low Speed Shaft			Approx. Weight (LBS.) SFWC	
			42CZ	56C 140TC		Tap Size	Depth	U +.0015 -.000	V	W-Key		
			Size	Length								
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

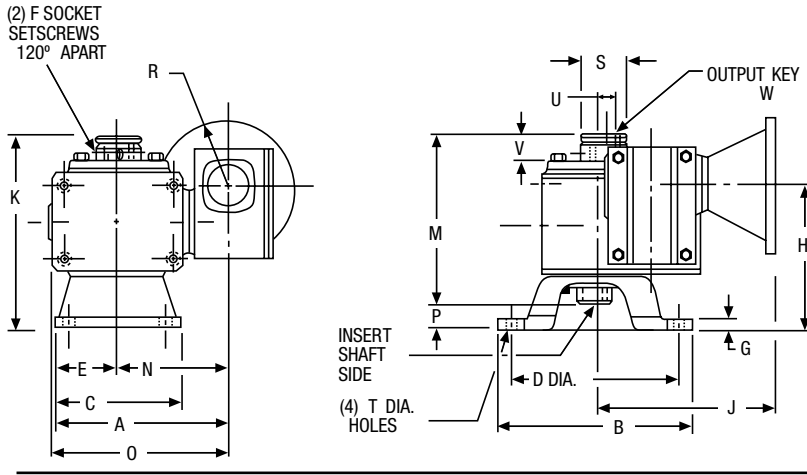
All hardware shown is included in the kits.

# 700 Series Double Reduction Flanged Reducer Dimensions

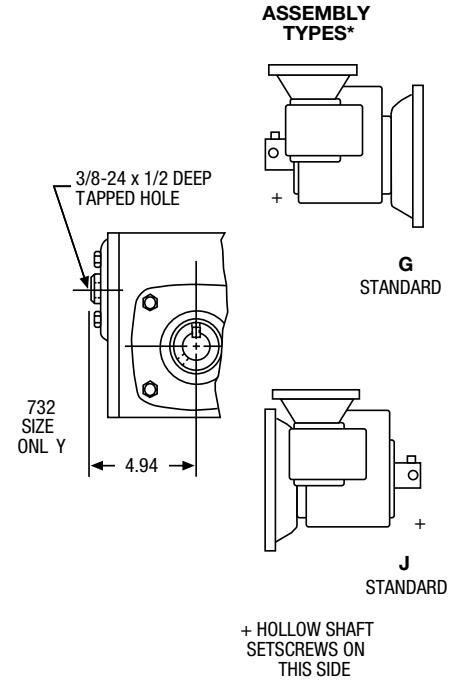
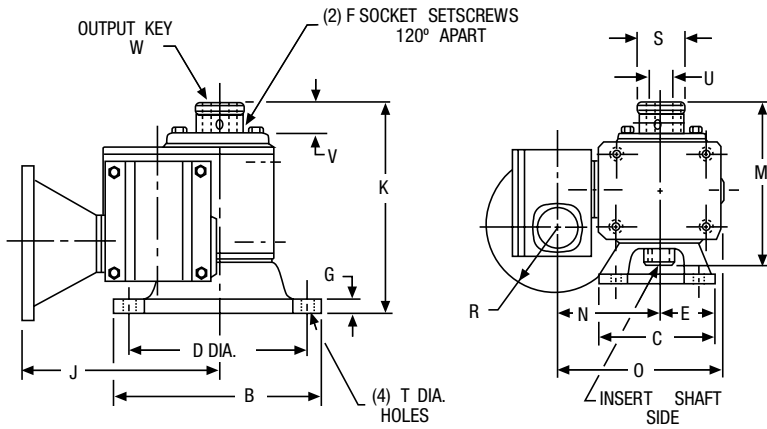
## SFWC700 Series Flanged Quill Type V/W Position Mounting Flange; Right Angle Shafts; Hollow Output

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		K	M
									SFWC			
									42CZ	56C 140TC		
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			T Hole	Low Speed Shaft			Approx. Weight (LBS.)
				42CZ	56C 140TC	S		U +.0015 -.000	V	W-KEY	
										Size	Length
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

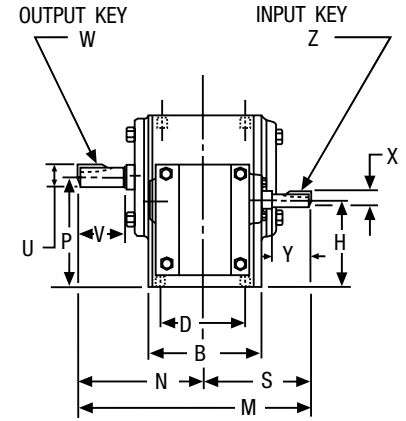
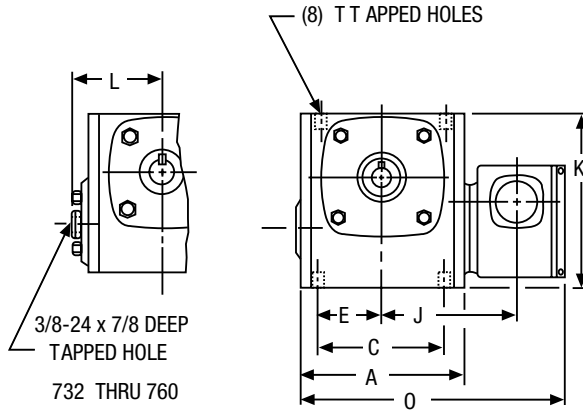
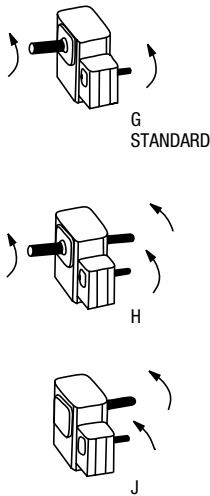
## WA700 Series

### Basic Models (No Base); Parallel Shafts

FOR ORDERING INFORMATION, see Page 56.

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

ASSEMBLY  
TYPES\*



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 +.000 -.001	V	W-KEY		X +.000 -.001	Y	Z-KEY			
		Tap Size	Depth			Sq	Length			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.

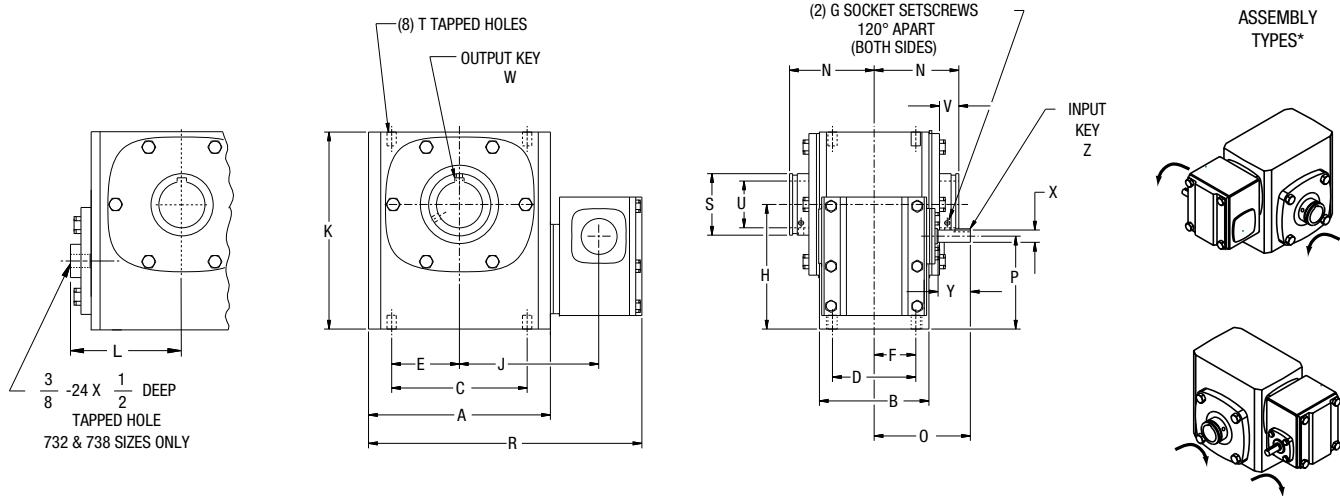


# 700 Series Double Reduction Non-Flanged Reducer Dimensions

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 128 For Key Information		.4995	1.31	1/8	5/8	37
726	11.09	2.50	3/8-16	.56	1.9375	.78			.4995	1.31	1/8	5/8	55
730	12.45	2.88	7/16-14	.88	2.1875	1.10			.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.

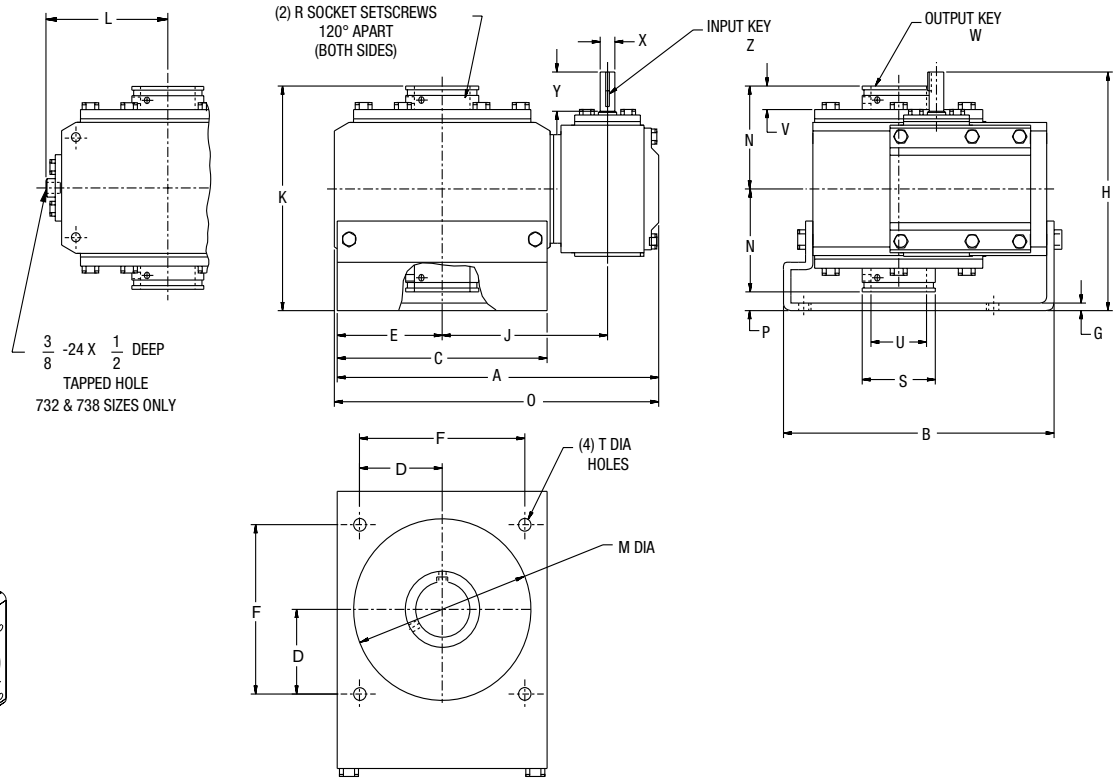


# 700 Series Double Reduction Non-Flanged Reducer Dimensions

## 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.



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

Size	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	#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 128 For		.4995	1.31	1/8	5/8	42
726	5/16-24	2.50	13/32	1.9375	.78	Key Information		.4995	1.31	1/8	5/8	66
730	5/16-24	2.88	13/33	2.1875	1.10			.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

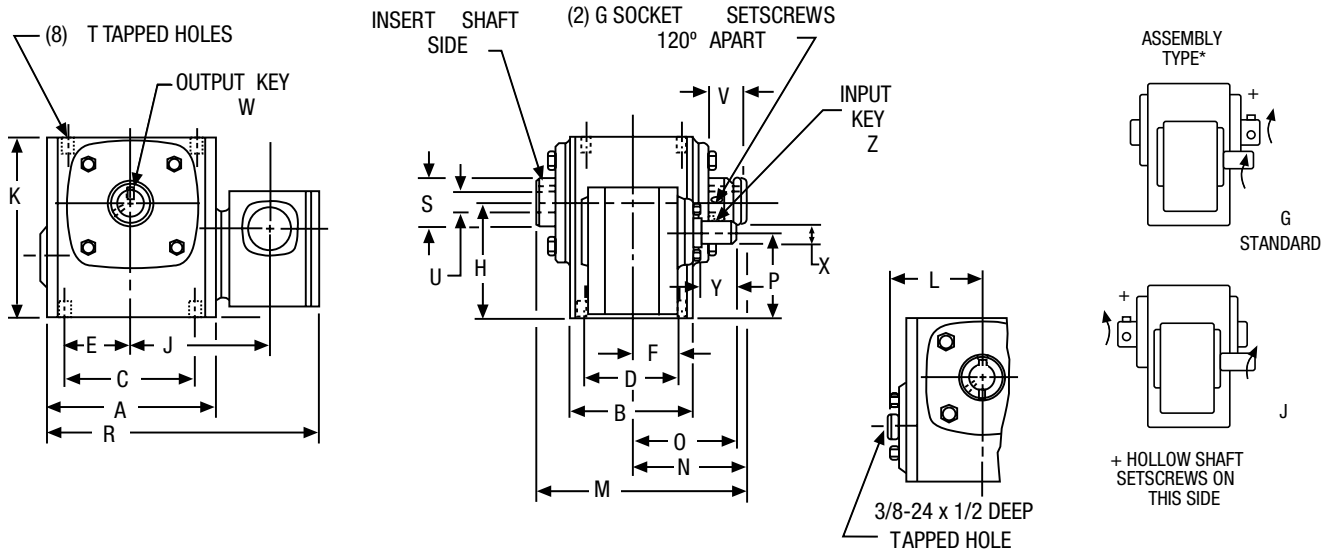
\* See Assemblies and Mounting Position, Page 74  
Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation.  
See Page 128 for available bore sizes.

# 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.)
			Tap Size	Depth	U +.0015 -.000	V	W-KEY		X +.000 -.001	Y	Z-KEY		
							Sq	Length			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.

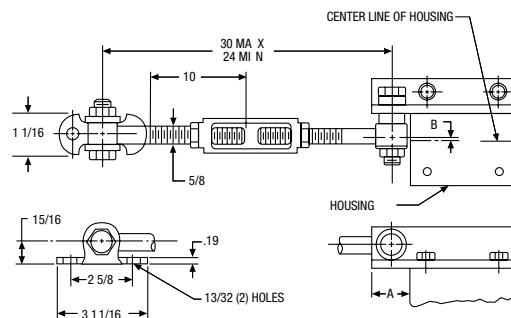
**Note:** For base dimensions see Single Reduction Flanged Reducer Dimension pages.

### 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.

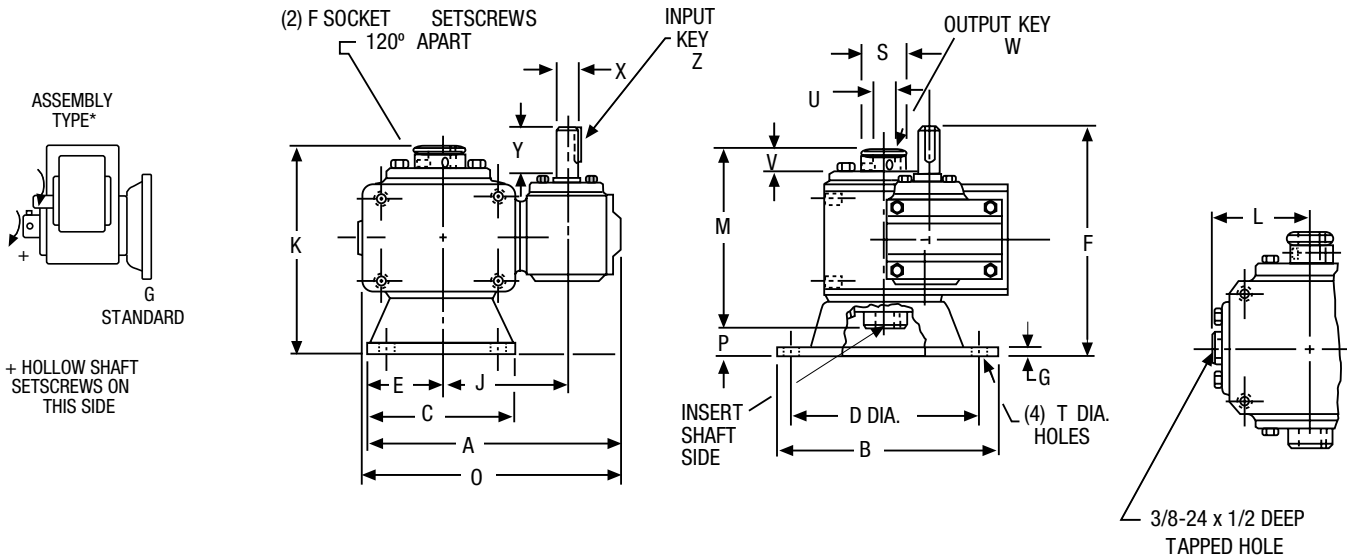


# 700 Series Double Reduction Non-Flanged Reducer Dimensions

## 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.



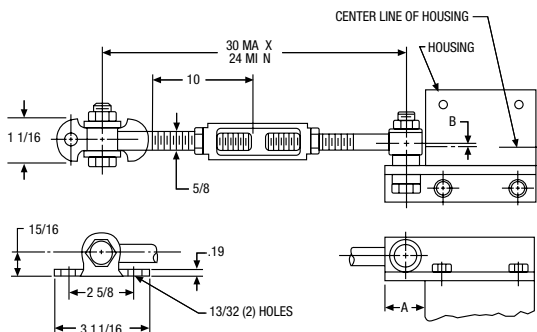
ALL DIMENSIONS IN INCHES

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

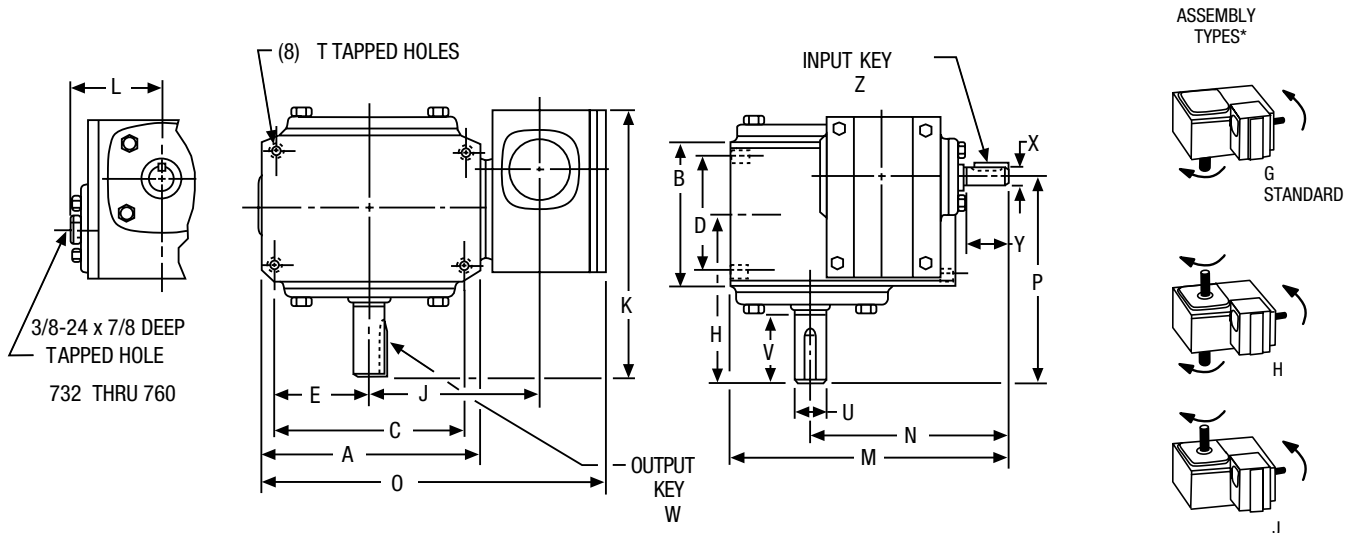
All hardware shown is included in the kits.

# 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.



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		X +.000 -.001	Y	Z-KEY			High	Low
					Sq	Length			Sq	Length			
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.

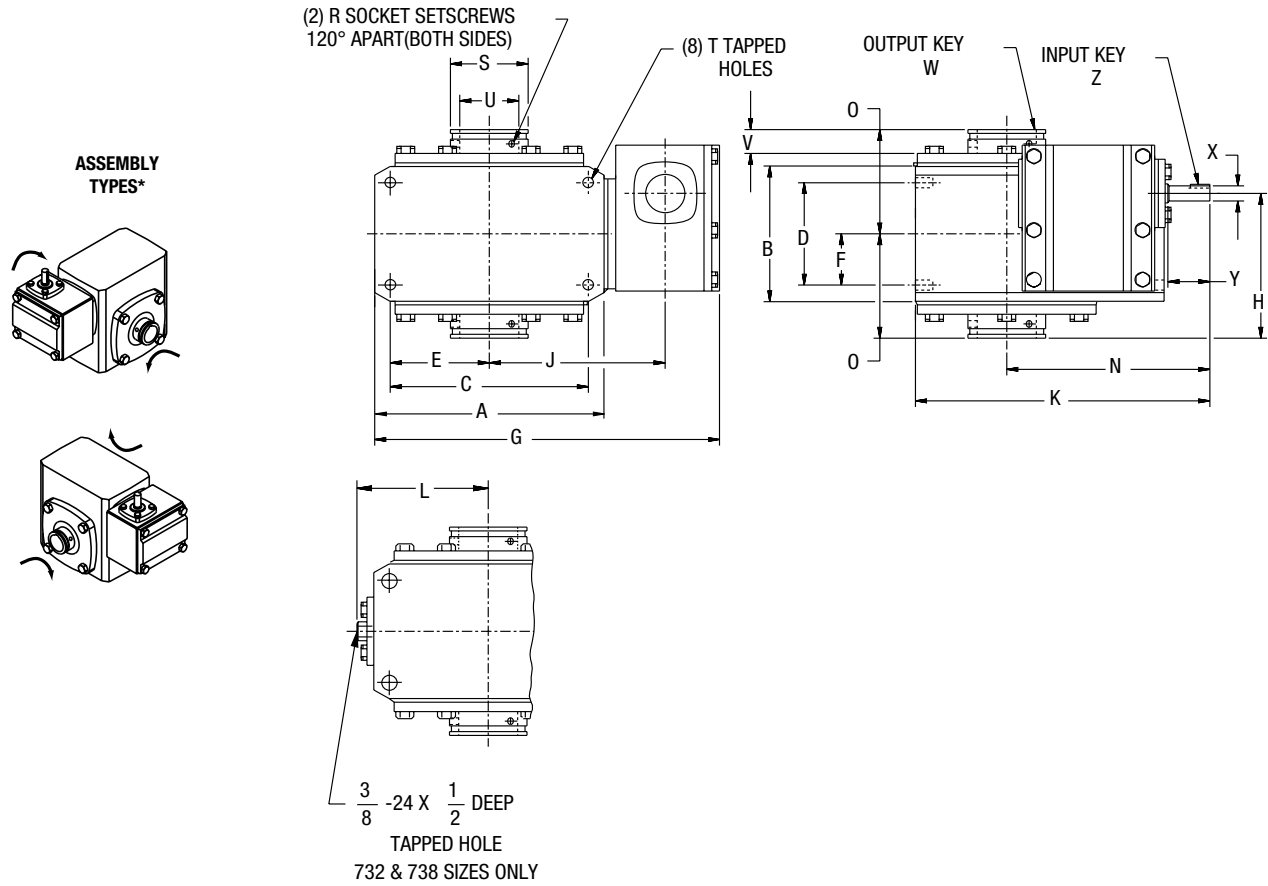
# 700 Series Double Reduction Non-Flanged Reducer Dimensions

## 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.



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.)
				Max U +.0015 -.000	V	W-KEY		X +.000 -.001	Y	Z-KEY		
		Tap Size	Depth			Sq	Length			Sq	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 128 For Key Information		.4995	1.31	1/8	5/8	37
732	2.50	3/8-16	.56	1.9375	.78	Key Information		.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	Key Information		.6245	1.56	3/16	13/16	96
738	3.25	1/2-13	.75	2.4375	1.11	Key Information		.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.

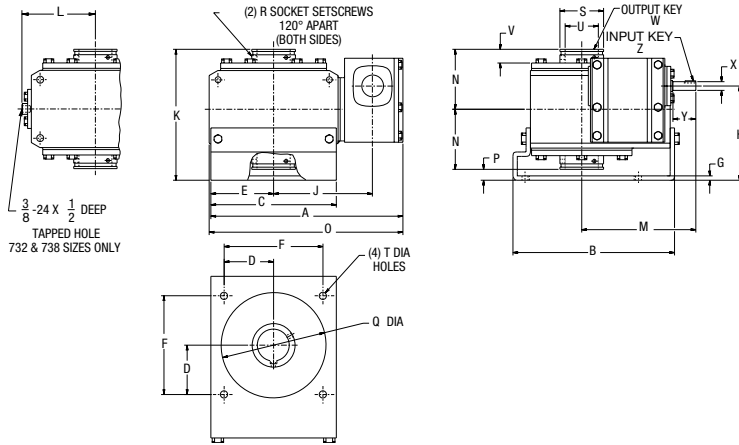


# 700 Series Double Reduction Non-Flanged Reducer Dimensions

## HWC700 Series

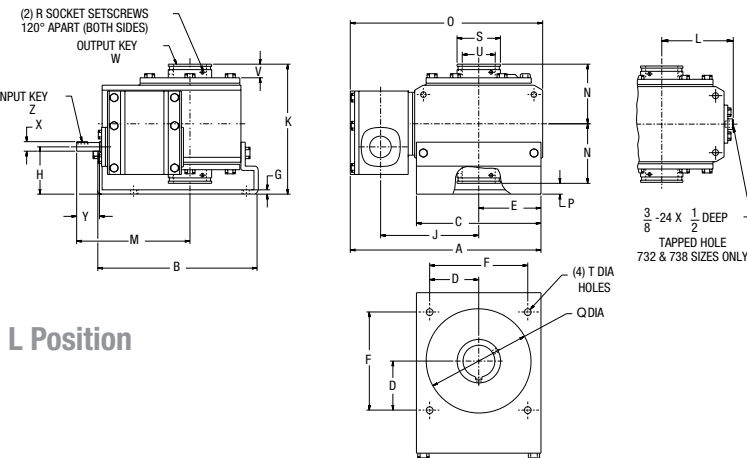
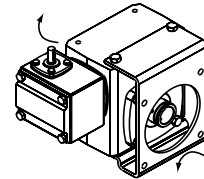
### R/L Position Mounting Bracket; Right Angle Shafts; Bored to Size Hollow Output

#### R Position

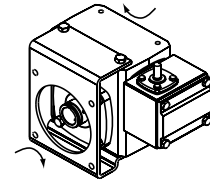


FOR ORDERING INFORMATION, see Page 56.  
FOR RATING INFORMATION, See Pages 71, 77-81.

#### ASSEMBLY TYPES\*



#### 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 128 For		.4995	1.31	1/8	5/8	42
726	6.00	5/16-24	2.50	13/32	1.9375	.78	Key Information		.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	Key Information		.6245	1.56	3/16	13/16	126
738	8.00	5/16-24	3.25	9/16	2.4375	1.11	Key Information		.6245	1.56	3/16	13/16	148

\* See Assemblies and Mounting Positions, Page 75.

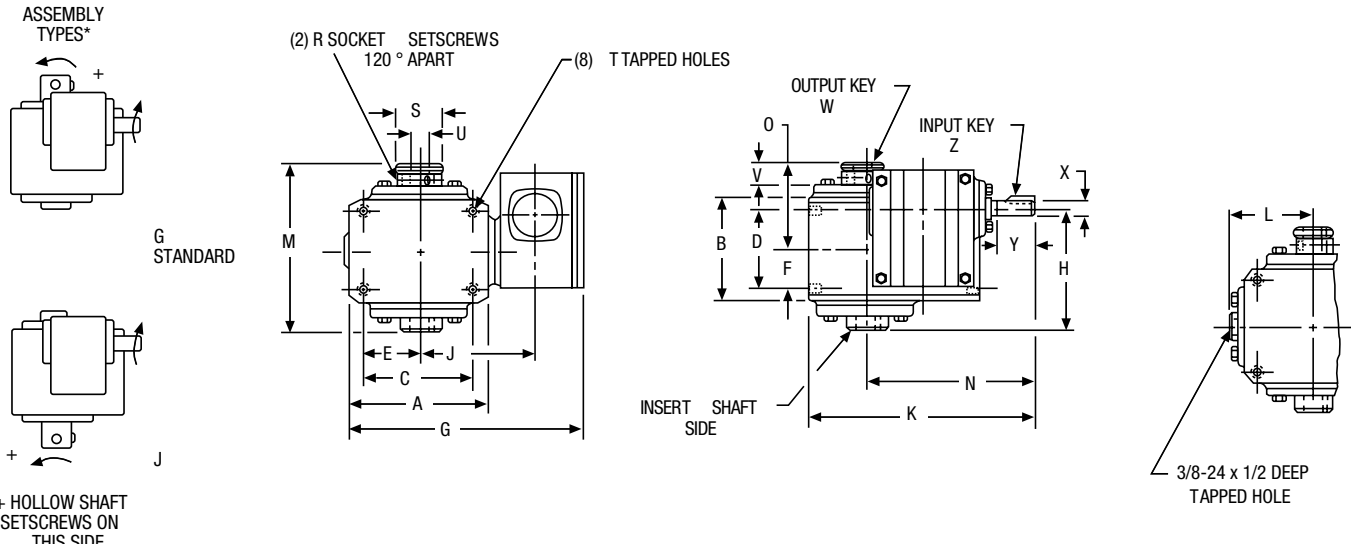
Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation. See Page 128 for available bore sizes.

# 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.



ALL DIMENSIONS IN INCHES

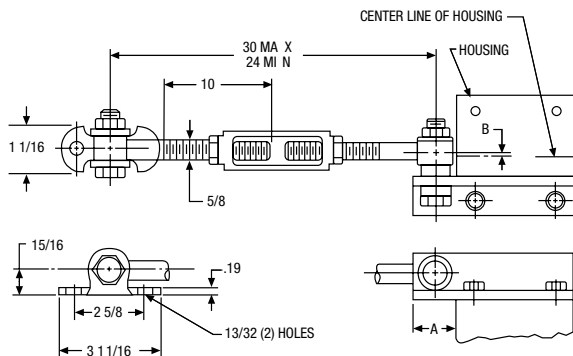
Size	A	B	C	D	E	F	G	H	J	K	M	N	O	R
718	5.50	3.69	4.19	2.75	2.09	1.38	8.72	3.59	4.44	6.69	5.69	4.63	3.09	#10-32
721	6.00	3.81	5.00	2.88	2.50	1.44	9.69	4.00	4.94	8.25	5.88	5.97	3.22	1/4-28
726	7.38	4.44	6.38	3.38	3.19	1.69	11.09	4.31	5.66	9.47	6.47	6.53	3.50	1/4-28
732	9.00	5.88	7.50	4.00	3.75	2.00	13.69	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.)
		Tap Size	Depth	U +.0015 -.000	V	W-KEY		X +.000 -.001	Y	Z-KEY		
						Sq	Length			Sq	Length	
718	1.38	5/16-18	.50	1.000	.78	See Page 128 For Key Information		.3745	.81	3/32	3/8	27
721	1.50	3/8-16	.56	1.125	.88	See Page 128 For Key Information		.4995	1.31	1/8	5/8	35
726	2.16	3/8-16	.56	1.4375	.84	See Page 128 For Key Information		.4995	1.31	1/8	5/8	52
732	2.56	7/16-14	.66	1.9375	1.00	See Page 128 For Key Information		.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.

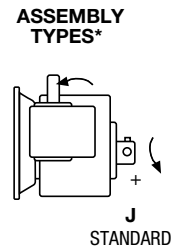
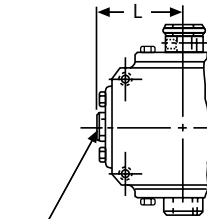
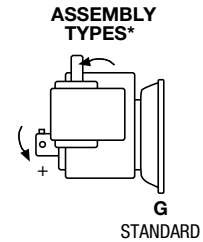
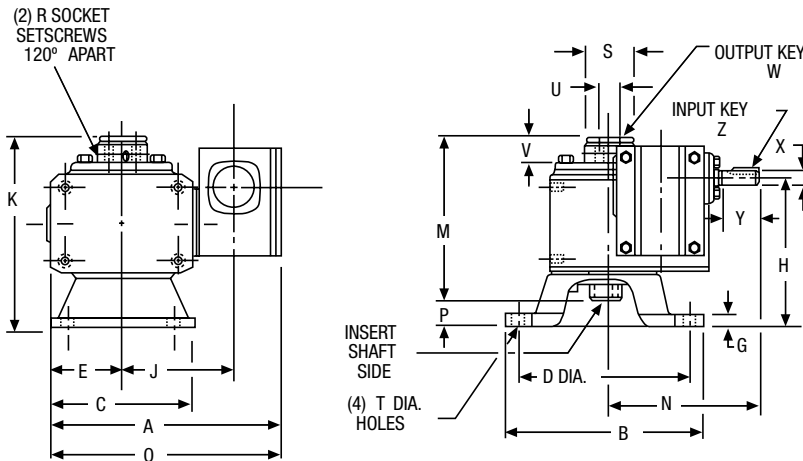
# 700 Series Double Reduction Non-Flanged Reducer Dimensions

## SWC700 Series

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

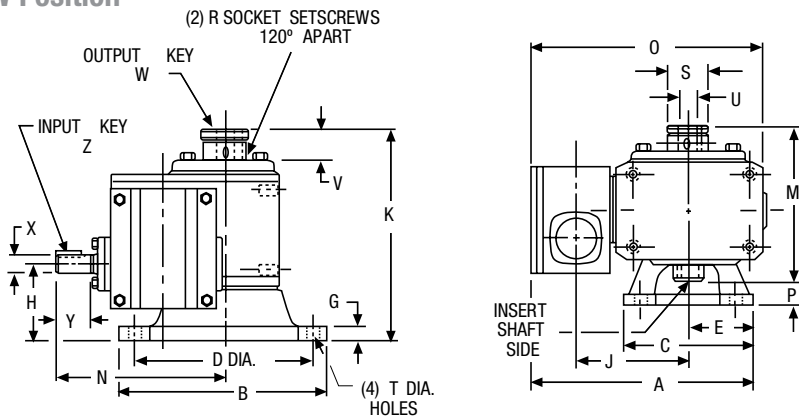
FOR ORDERING INFORMATION, see Page 56.  
 FOR ADDITIONAL SIZES, See the H Series Page 88-89.  
 FOR RATING INFORMATION, See Pages 71, 77-81.

#### V Position



+ HOLLOW SHAFT SETSCREWS ON THIS SIDE.

#### W Position



ALL DIMENSIONS IN INCHES

SIZE	A	B	C	D	E	G	H		K	L	M	N	O	P
							V Model	W Model						
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				High Speed Shaft				Approx. Weight (Lbs.)
				U +.0015 -.000	V	W-KEY		X +.000 -.001	Y	Z-KEY		
						Sq	Length			Sq	Length	
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.

