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WORM GEAR DRIVES

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WORM GEAR DRIVES

Single, Double and Triple Reduction

Basic Specifications

- Power Ratings from 1/4 to 104 hp
- Output Torque to 56,000 inch/lbs
- Ratios from 5:1 through 216,000:1
- Output Speeds .0081 rpm to 350 rpm

Standard Features

- Over 30 series and 230 standard models available.
- Recess action gear design provides for more efficient operation and greater durability.
- Cast iron housing designed for superior thermal conductivity provides rigid gear and bearing support.
- Alloy shafting for greater strength.
- Hardened and ground worm and alloy bronze gear for greater wear life.
- 20° - 25° - 30° pressure angle design provides for more efficient operation and greater durability.

Optional Features

- Modified Standard and Custom Designs
- Metric, Servo or Hydraulic input flanges
- CleanLine Washdown and BISSC Configurations
- Unique or Harsh Environment Adaptations

Motorized Worm Gear Drives

- Motors produced by Marathon Electric for High Efficiency, Reliability and Durability
- General or Definite Purpose Motors
- Brake or Inverter Duty Motors, DC or Washdown Motors
- Motor/Gear Drive Package Incentives Available, Consult Factory

For Available Electric Motors
Sections H

For Stainless Steel Worm Gear Drives See HUB³
Section O

For Compact Light Weight Aluminum Worm Gear Drives See Spartan Worm Gear Drives
Section C

For Sub-Fractional Worm Gearmotors See Mina-Gear Gearmotors
Section P

For High Efficiency Right Angle Gear Drives See Poweratio® 2000 Helical Bevel and Helical Worm Units
Sections K & L

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Design Features

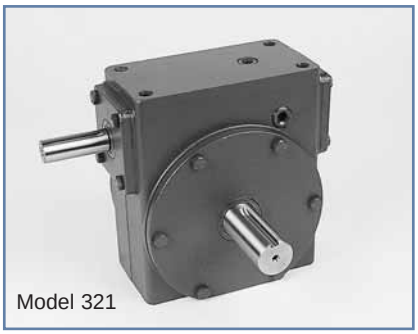
- Single Reduction
- Double Reduction
- Triple Reduction

B

General Design Features

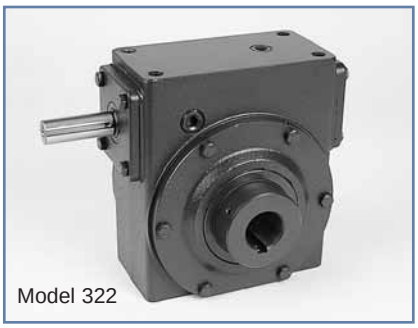
- Over 30 series and 230 standard models available.
- Recess action gear design provides for more efficient operation and greater durability.
- Cast iron housing designed for superior thermal conductivity provides rigid gear and bearing support.
- Alloy shafting for greater strength.
- Hardened and ground worm and alloy bronze gear for greater wear life.
- 20° - 25° - 30° pressure angle design provides for more efficient operation and greater durability.

Single Reduction Features


Model 321

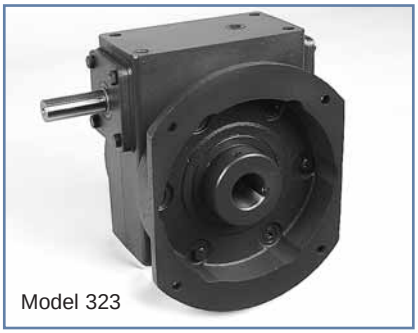
Models
131
181
211
261
321
381
451
521
601
701
801

- Basic models available in three standard styles.
- Tapered roller bearings on high speed shaft on models 321 and larger, 131 through 261 are ball bearings.
- Tapered roller bearings on the low speed shaft (except 131 is ball bearing)
- Adjustable base kit features elongated slots for mounting bolts and adjusting screws for ease of positioning. (page B-93)
- Universal base kits feature interchangablity. (page B-92)
- Side mounting kits for side wall and ceiling mounting (page B-94)
- NEMA “C” Flange Adaptor kits for direct mounting to electric motor.(page B-95)
- Thermal Block, Fan kits and Synthetic lubricants are available to increase thermal capacity (page B-96) for model availability.


Model 322

Models
182
212
262
322
382
452
522
602
702

- Shaft mounted model designed for direct mounting on drive shaft of equipment to be driven provides a positive and permanent alignment of reducer to the driven machine.
- Tapered roller bearings on high speed shaft on models 322 and larger, 182 through 262 are ball bearings.
- Tapered roller bearings on the low speed shaft.
- NEMA “C” Flange Adaptor kits for direct mounting to electric motor. (pages B-95)
- Torque arm kits available see page B-97.
- *“QD”® Bushings provide widest possible range of bore size, ease of installation and removal. Available in series 450 through series 70.
- Thermal Block, Fan kits and Synthetic lubricants are available to increase thermal capacity (page B-96) for model availability.


Model 323

Models
183
213
263
323
383
453
523
603

- Side mount flanged model is designed for direct flange mounting to the driven equipment. This provides for more rigid positioning and eliminates the need for shaft bearings adjacent to the reducer.
- Tapered roller bearings on high speed shaft on models 323 and larger, 183 through 263 are ball bearings.
- Tapered roller bearings on the low speed shaft.
- NEMA “C” Flange Adaptor kits for direct mounting to electric motor.(page B-95)
- *“QD”® Bushings provide widest possible range of bore size, ease of installation and removal. Available in series 450 through series 70.
- Thermal Block, Fan kits and Synthetic lubricants are available to increase thermal capacity (page B-96) for model availability.


Model 324

Models
134
184
214
264
324
384
454
524

- “C” flange design permits motor shaft to be plugged directly into quill-type input shaft permitting installation in the smallest possible space.
- High speed shaft bearings are ball bearings except 454 and 524 have double tapered roller bearings.
- Tapered roller bearings on the low speed shaft (Except 134 is ball bearings).
- Input quill is coated with Molykote G-n paste to provide protection against fretting corrosion.
- Hub City adjustable base kits featuring elongated slots for mounting bolts and adjusting screws for ease of positioning. (see page B-93)
- Universal base kits and side mounting kits available for many different mounting positions. (see page B-92 and B-94)
- Thermal Block, Fan kits and Synthetic lubricants are available to increase thermal capacity (page B-96) for model availability.

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Design Features (Cont'd)

- Shaft mount design for direct mounting on the drive shaft of equipment to be driven provides a positive and permanent alignment of reducer to the driven machine.
- "C"-flange design permits motor to be plugged directly into quill-type input shaft permitting installation in the smallest space.
- High speed shaft bearings are ball bearings except 455 and 525 have double tapered roller bearings.
- Tapered roller bearings on low speed shaft.
- Molykote G-n Paste is coated on the input quill to provide protection against fretting corrosion.
- Torque arm kits available see page B-97.
- Thermal Block, Fan kits and Synthetic lubricants are available to increase thermal capacity (page B-96) for model availability.
- *"QD"® Bushings provide widest possible range of bore size, ease of installation and removal. Available in series 450 through series 70.

Models
185
215
265
325
385
455
525


Model 325

- "C" flange design permits motor shaft to be plugged directly into quill-type input shaft permitting installation in the smallest possible space.
- Side mount flange is designed for direct flange mounting to the driven equipment. This provides for a more rigid positioning and eliminates the need for shaft bearings adjacent to the reducer.
- High speed shaft bearings are ball bearings except 456 and 526 have double tapered roller bearings.
- Tapered roller bearings on the low speed shaft.
- Input quill is coated with molykote G-n paste to provide protection against fretting corrosion.
- Thermal Block, Fan kits and Synthetic lubricants are available to increase thermal capacity (page B-96) for model availability.
- *"QD"® Bushings provide widest possible range of bore size, ease of installation and removal. Available in series 450 through series 70.

Models
186
216
266
326
386
456
526


Model 326

- Drop bearing design provides overhung load support for trolleys, conveyors, agitators, mixers and other similar applications.
- Grease retainer at out board bearing for mounting output shaft vertically up.
- Large outboard bearing for long bearing life.
- Tandem Seals (Taconite) on output shaft with grease and purge holes provided.
- Output shaft dimensions and mounting hole layout interchange with comparable Morse models.
- Tapered roller bearings on both high speed and low speed shafts.
- NEMA "C"-flange adapter kits for direct mounting of electric motor.(see page B-121)
- Thermal Block, Fan kits and Synthetic lubricants are available to increase thermal capacity (page B-96) for model availability.

Models
327
387
457
527
607
707
807


Model 327

- "C" flange design permits motor shaft to be plugged directly into quill-type input shaft permitting installation in the smallest possible space.
- Input quill is coated with Molykote G-n paste to provide protection against fretting corrosion.
- Drop bearing design provides overhung load support for trolleys, conveyors, agitators, mixers, and other similar applications.
- Grease retainer at outboard bearing for mounting output shaft vertically up.
- Large outboard bearing for long bearing life.
- Tandem Seals (Taconite) on output shaft with grease and purge holes provided.
- Output shaft dimensions and mounting hole layout interchange with comparable Morse models.
- High speed shaft bearings are ball bearings on 328 and 388, 458 and 528 have double tapered roller bearings.
- Taper roller bearings on low speed shaft.
- Thermal Block, Fan kits and Synthetic lubricants are available to increase thermal capacity (pages B-96) for model availability.

Models
328
388
458
528


Model 328

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Design Features (Cont'd)

Model 329V

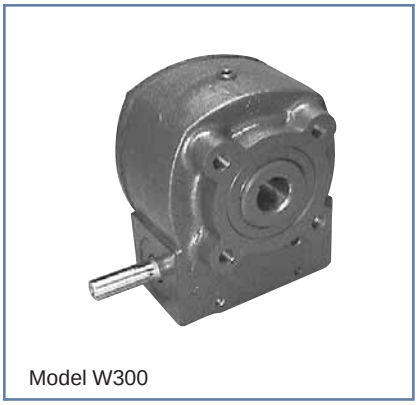
Models
189V
219V
269V
329V
389V
459V
529V
609V
709V
809V

- Vertical mount flanged model is designed for direct flange mounting to provide a vertical shaft. Shaft extensions can be flange side, opposite flange or both.
- Tapered roller bearings on high speed shaft on models 329 and larger, 189 through 269 are ball bearings.
- Tapered roller bearings on low speed shaft.
- Output shaft dimensions and mounting hole layout interchange with comparable Winsmith C-line models.
- NEMA "C" Flange Adaptor Kits for direct mounting of electric motor. (see page B-95)
- Thermal Block, Fan kits and Synthetic lubricants are available to increase thermal capacity (see page B-96) for model availability.

Model 320V

Models
180V
210V
260V
320V
380V
450V
520V

- "C" flange design permits motor shaft to be plugged directly into quill-type input shaft permitting installation in the smallest possible space.
- Vertical mount flange is designed for direct flange mounting to provide a vertical shaft. Shaft extensions can be flange side, opposite flange or both.
- High speed shaft bearings are ball bearings except 450V and 520V are double tapered roller bearings.
- Tapered roller bearings on low speed shaft. Double row ball bearings on high speed shaft.
- Input quill is coated with Molykote G-n paste to provide protection against fretting corrosion.
- Output shaft dimensions and mounting hole layout interchange with comparable Winsmith C-line models.
- Thermal Block, Fan kits and Synthetic lubricants are available to increase thermal capacity (see page B-96) for model availability.



Model W300

W-Series
Models
W300
W50B
W516

- Constructed with all cast iron alloy housings.
- Tapered roller bearings
- Heavy-duty industrial seals
- Shaft mounted for direct mounting on drive shafts.
- W300 also available with light weight aluminum housing.

Model 254

Torque Plus Helical Ratio Multiplier

Models
251
254

- Four ratios available from 2:1 to 5:1
- Can be used as reducer or increaser.
- Provides additional reduction capability when mounted onto Helical Gear Reducer or Worm Gear Reducer
- C-flange or solid input shaft.
- Helical gearing.
- Double lip seals.
- Cast aluminum housing.
- Base mounting available.
- Permanently lubricated at factory.

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Design Features (Cont'd)

Double Reduction Features

Model 3804

- Provides all the same basic features as the single reduction unit with two Hub City gearboxes connected.
- Available in ratios from 50:1 to 3600:1
- 90 different models to choose from.
- See Model Index page B-48 for series and model page number.

Triple Reduction Features

- Provides all the same basic features as the single and double reduction units with three Hub City gearboxes connected.
- Available in ratios from 1000:1 to 216,000:1
- 72 different models to choose from.
- See Model Index page B-78 for series and model page number.

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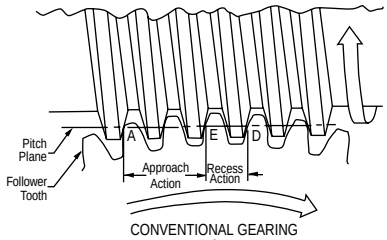
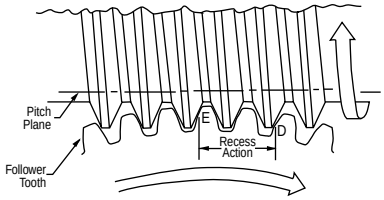
Recess Action Worm Gearing

With the introduction of High Efficiency motors and the rising cost of energy machine designers and equipment builders are demanding equipment and components that operate at higher efficiency levels. HUB CITY has designed their own worm gear speed reducers around a system of gearing that substantially increases the efficiency. This system is called “RECESS ACTION WORM GEARING”. Recess action worm gearing is a venerable and well proven gear system. The greatest enemy of worm gearing is heat, heat generated by friction resulting from the rubbing action between the worm and worm gear. By reducing friction an entire series of benefits are gained, such as a substantial increase in efficiency, increased wear life, lower starting and running torque, and smoother conjugate tooth action.



CONVENTIONAL GEARING
FIG 1



RECESS ACTION GEARING
FIG 2

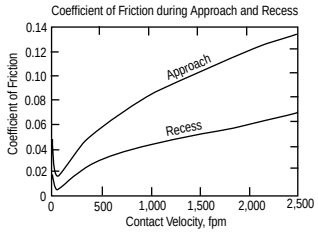


FIG 3

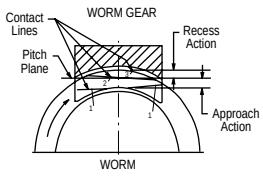
Fig. 1 shows a conventional gear system with the pitch plane at one-half the working depth. Initial contact takes place at point A (note the direction of rotation) where the follower tooth begins to dig into the tip of the driver tooth. As contact progresses from point A to point E there is approach action. Approach action is a sliding in. It has a detrimental scraping action which tends to wear away the surface of the gears. The friction is very high (note Fig. 3) causing scuffing and the direction of the friction vector in approach action opposes the direction of rotation. From point E to point D there is recess action. Recess action is a sliding out with the follower gear tooth moving away from the driver. The friction forces in recess action are lower than those in approach action, and are in the direction that aids rotation. In addition recess action tends to cold work the gear surfaces improving the contact and load capacity.

Fig. 2 shows the same gear set in recess action. Slight modification of the tooth profile moves the pitch plane from its normal center location to the outside diameter of the follower member. The initial point of contact now occurs at point E which is on the line of centers of the gear system. This contact then progresses to point D which is completely recess action. The recess action gear system therefore offers all the advantages that occur in the recess action portion of a conventional gearing system and avoids the problem conditions that occur in the approach action.

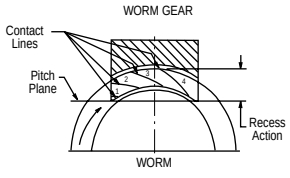
A good example of recess action can be illustrated by a water wheel. If the water spout is behind the vertical center line of the water wheel, the buckets will be filed before they reach the high point of the wheel. Some energy of the water will be expended in lifting the full buckets to the high point of the wheel and therefore there will be a power loss. This is the same as approach action. If, however, the buckets are filled at the vertical center point of the wheel, then all of the energy of the water will be used in the rotation of the wheel and the amount of power delivered by the wheel will be much greater.

In addition to full recess action gearing, the Hub City gearing system also employs the use of larger pressure angles than are normally found in conventional worm gear sets. The pressure angles utilized in these gear sets are 20°, 25° and 30°. The use of larger pressure angles enables the gear sets to have a wider face width and still maintain conjugate action of the tooth forms. The combination of larger pressure angles, wider face widths, and the use of high alloy bronze materials, results in worm gear teeth that are capable of substantially higher bending loads and surface wear loads.

Fig. 4 shows the contact lines of a conventional worm gear set projected on the end view of the worm. The contact starts at the outside diameter of the worm gear and travels up to the outside diameter of the worm. Fig. 5 shows the contact lines of a recess action worm gear set projected on the end view of the worm. Here the contact lines progress across the face of the worm gear. The total length of the contact lines in Fig. 5 is less than that in Fig. 4, but the position of the contact lines are more favorable relative curvatural conditions so that the unit loading in regard to surface stresses can be nearly double those of the lines shown in Fig. 4. The actual wear load capacity in Fig. 5 is about 150% of that shown in Fig. 4. The loading of the worm thread as a cantilever beam is substantially that of concentrated loads in Fig. 4 while it approaches that of uniformly applied loads in Fig. 5.



CONVENTIONAL GEARSET
FIG 4



RECESS ACTION GEAR SET
FIG 5

In a worm gear set the lubrication that does the most good is carried on the face of the worm gear teeth. The lubricant on the worm thread surface tends to be scraped off by the lines of contact. The lubricant on a worm gear tooth is pushed ahead of the contact lines. Through the period of engagement the same thread on the worm is in continuous contact with the same tooth on the gear.

In Fig. 4 the lubricant on the worm thread is practically exhausted by the left part of the contact lines so that the right part of the contact lines see virtually none of the lubricant. The lubricant on the worm gear tooth of the conventional worm gear set is pushed ahead of the contact lines toward the outside diameter of the worm. In Fig. 5 the lubricant on the gear tooth and worm thread is continually swept ahead of the contact, resulting in more adequate lubrication of both the worm thread and the worm gear tooth.

A continuing test program in the Hub City test facility has proven that recess action worm gears are capable of carrying higher gear loads with less gear wear. The increased efficiency of the gear sets results in less energy loss of the Hub City worm gear speed reducers.

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Rating Parameters

Mechanical Ratings

The mechanical capacity of a worm gear speed reducer is generally based on the surface endurance limit of the worm gear material. In some cases the shear strength of the worm gear material may be the limiting factor such as in low speed, high torque applications. Maximum mechanical ratings are calculated to be used with a service factor of 1.0. This is for continuous service free from shock loading and a total duration of up to 10 hours per day. Applications outside of these conditions require further modification of the unit mechanical ratings. Table 1 defines the service factor for various operating conditions.AGMA service factors for worm gear reducers are listed in Section A.

Thermal Ratings

The thermal capacity of a HUB CITY reducer is the actual horsepower (without service factor) which it will transmit continuously for 2 or more hours without the temperature exceeding 200° F.

Thermal ratings may be ignored when the continuous operating period does not exceed 2 hours and the shut-down period equals or exceeds the operating period. However, when the operating period exceeds 2 hours or the operating period exceeds the shutdown period, thermal ratings must be considered. If the thermal capacity of the unit is exceeded, a larger unit must be chosen or provision made for additional cooling. Design options listed will provide increased thermal capacity.

Worm gear units should have a run-in period of about 50 hours. Abnormal heating may occur during this run-in period and does not necessarily indicate that the unit is beyond thermal capacity unless heating is excessive or continuous beyond the run-in period.

Thermal Design Options

As a result of continuing research and development programs HUB CITY can now offer several design options which will increase the thermal capacity of our standard line of worm gear reducers. The addition of these options provides additional options in selecting and applying worm gear reducers.

The design options available are:

1. THE USE OF HUB CITY SYNTHETIC LUBRICANT. HUB CITY lubricant is available in quart containers and is normally stocked by our authorized distributors. It is recommended that HUB CITY synthetic lubricant be used in all worm gear applications because of its ability to increase the operating efficiency of the drive. The use of HUB CITY synthetic lubricant can increase thermal capacity from 10% to 15% depending on unit size.
2. FAN COOLING. Cooling fans are available as a factory assembled option for all units from Series 260 through Series 80. Series 260 through Series 520 fans are also available as a field installed option. The use of cooling fans will increase thermal capacity from 10% to 50% depending on unit size and speed.
3. THERMAL BLOCK. A thermal heat sink block is available and can be used on unit Series 380 through Series 520 to increase the ability of a cooling fan to dissipate heat thereby increasing the thermal capacity beyond that obtained when using a fan only.

The design options may be used in combination and will provide compound effects on the thermal capacity of a drive. The rating tables provided clearly illustrate this.

Pre-Selection Information

HUB CITY worm gear speed reducers are designed to permit many assembly variations.

Worm gear speed reducers are selected on the basis of gear ratio, speed, torque (or horsepower) and mounting required. Factory engineers and customer service personnel are always willing to assist with unit selection, in order to provide the most economical drive component.

The drive selection tables have been arranged so that once the gear ratio, speed, torque (or horsepower) and mounting are known, the HUB CITY model number can be easily obtained or determined. Service factors for various loads and power sources are also provided to effectively accommodate loading and power source fluctuations. The use of the tables require only a minimum effort to select the service factors.

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ROTATION — Input (High Speed Shaft) to the Hub City "Worm Gear Reducer" can be either clockwise or counter-clockwise.

OPERATING CHARACTERISTICS
VELOCITY LIMITS — Worm gear speed reducers are limited in speed by the rubbing velocity of the gear set. Gear sets using a steel worm with a cast iron gear are limited to a rubbing velocity 500 feet per minute. Gear sets with a steel, heat treated ground worm and bronze gear are limited to a maximum rubbing velocity of 1,500 feet per minute.

Consult factory for ratings at speeds higher than shown in the standard rating tables.

MAXIMUM TORQUE — The minimum speed of 100 RPM DOES NOT illustrate the lowest recommended speed of the worm gear speed reducers. This minimum speed illustrates the maximum running torque of the gear box. The unit will efficiently run at speeds below 100 RPM. When it is necessary to know horsepower values at these lower speeds simply convert the torque shown at 100 RPM to horsepower using the actual operating speed. Maximum momentary or starting torque is limited to 300% of rated capacity for worm gear speed reducers

Service Factors

The ratings for gear drives in this manual are based on a service factor of 1.00, for uniform load and uniform power source, up to 10 hours of operation per day. For other operating conditions, the application horsepower or torque must be multiplied by the appropriate service factor, to determine the equivalent gear drive power rating. A gear drive should be selected with a rated capacity equal to or greater than the equivalent rating.

Table 1 designates recommended service factors for various conditions of load, power source, and duration of service.

AGMA Service Factors for Worm and Helical Worm Gearmotors and Reducers are listed in Section A.

Refer to page A-2 for further information and cautions on the selection of proper service factors.

TABLE 1 — SERVICE FACTORS

		Driven Machine Load Classification		
Prime Mover	**Duration of Service Per Day (1)**	**Uniform**	**Medium Shock**	**Heavy Shock**
Electric Motor	Occasional 1/2 hr.	*	*	1.00
	Intermittent 3 hrs.	*	1.00	1.25
	3 - 10 hours	1.00	1.25	1.50
	Over 10 hours	1.25	1.50	1.75
Electric Motor With Frequent Starts and Stops (2)	Occasional 1/2 hr.	*	1.00	1.25
	Intermittent 3 hrs.	1.00	1.25	1.50
	3 - 10 hours	1.25	1.50	1.75
	Over 10 hours	1.50	1.75	2.00
Multi-Cylinder Internal Combustion Engine	Occasional 1/2 hr.	*	1.00	1.25
	Intermittent 3 hrs.	1.00	1.25	1.50
	3 - 10 hours	1.25	1.50	1.75
	Over 10 hours	1.50	1.75	2.00
Single Cylinder Internal Combustion Engine	Occasional 1/2 hr.	1.00	1.25	1.50
	Intermittent 3 hrs.	1.25	1.50	1.75
	3 - 10 hours	1.50	1.75	2.00
	Over 10 hours	1.75	2.00	2.25
Reversing Service Application		Consult Factory		

* Unspecified service factors should be 1.0 or as agreed upon by user and manufacturer.

Explanatory Notes

1. Time specified for intermittent and occasional service refers to total operating time per day.

2. Term "frequent starts and stops" refers to more than 10 starts per hour.

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How To Select and Order Standard Models

When ordering a worm gear reducer, it is necessary to select reducer size (series), gear ratio, model, and assembly style. If accessories are required, they must be ordered separately and in addition to the reducer.

SELECTION EXAMPLE. A belt conveyor, uniformly loaded, requires a direct coupled worm gear speed reducer to drive a light continuous belt. A 2 HP 1750 RPM electric motor is to be the prime move. Reducer output shaft must drive conveyor at approximately 115 RPM. The machine is expected to operate 24 hours per day.

STEP No. 1. Table 1 (page B-9) indicates service factor requirement of 1.25 for an electric motor drive under required 24 hour uniform load conditions.

STEP No. 2. Decide whether the application will require the reducer to be selected based on mechanical rating or thermal rating. Units may be selected based onmechanical rating only if the continuous operating period does not exceed two hours and shutdown period equals or exceeds operating period. Since our example requires 24 hours per day service the unit must be selected based on thermal capacity.

STEP No. 3. Calculate ratio required. Divide 1750 RPM input speed by 115 RPM required output speed. A 15:1 ratio is needed.

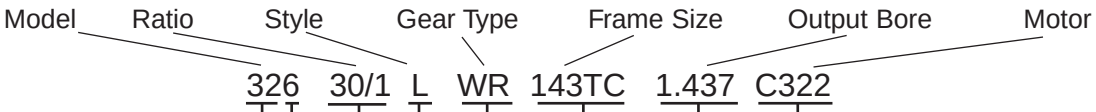
STEP No. 4. Refer to the Thermal Quick Selection Chart on (page B-13). Down the left side find the 15:1 ratio selection. Trail across this section on the 1.25 service factor line to the 2 HP column. The proper selections for this application are a 320 Series standard unit or a 260 Series fan cooled unit. Thermal design options allow maximum flexibility in unit selection and application.

Additional rating information can be obtained by referring to the detailed rating data for each individual series. Rating data for each thermal design option is listed.

STEP No. 5. Refer to Model Selection Chart (page B-12) and select the applicable model. In the above example, it states a direct coupled reducer is required. Model 261F or Model 321 with output shaft extensions is the proper selection.

After the selection process has shown the correct series worm gear speed reducer required (Series 260 or Series 320) then the specific data listed below is needed to properly place an order for each of the models within a series.

To order motorized reducers, specify the reducer as shown, indicate the motor description as shown and specify “motorized assembly.”



Motor
See Section H for available motors

Output Bore
(Applies to model numbers ending in 2,3,5 or 6 only)
Refer to dimensional pages for output bore sizes available in each model

Frame Size
(Applies to model numbers ending in 4,5,6,8 or 0 only)
Refer to dimensional pages for frame sizes available in each model

Gear Type
WR : Worm Right (standard)
WL : Worm Left (mfg to order -consult factory)

Output Style
Refer to dimensional pages for styles available in each model

Ratio
Refer to ratings pages at the beginning of the single, double and triple reduction sections for ratios available in each model

Unit Series

	Series	Center Distance
13	130	1.33"
18	180	1.75"
21	210	2.06"
26	260	2.63"
32	320	3.25"
38	380	3.75"
45	450	4.50"
52	520	5.25"
60	60	6"
70	70	7"
80	80	8"

Model Configuration
Refer to Features pages B-3 to B-6 or Model Index pages B-12, B-48 and B-78 for model configurations available in each series

Note:
For Double reduction models a zero (0) is inserted ahead of this number
For Triple reduction models a five (5) is inserted ahead of this number
(a six (6) for models ending in zero (0))

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HUB CITY
FAX: (605) 225-0567

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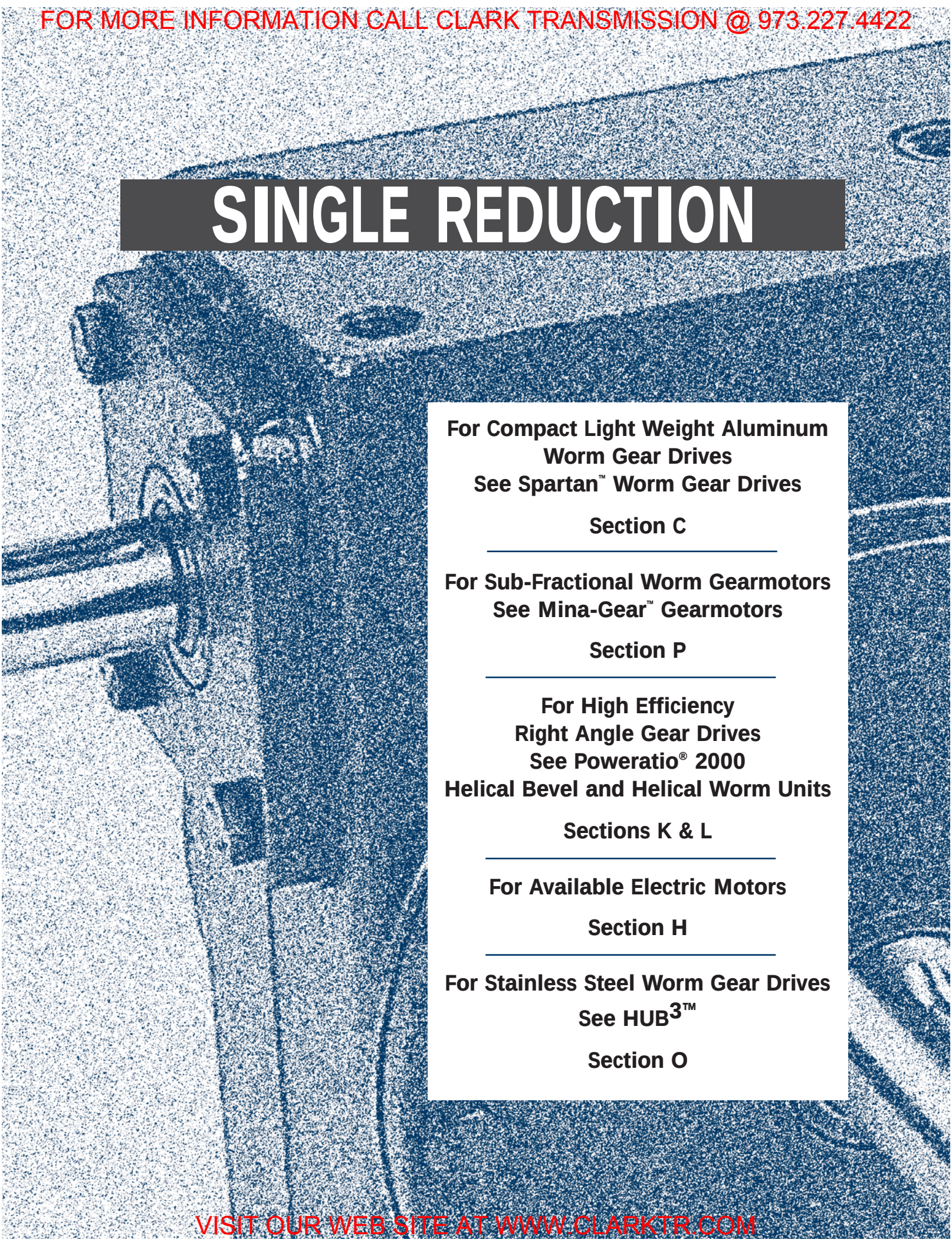

SINGLE REDUCTION

For Compact Light Weight Aluminum Worm Gear Drives
See Spartan™ Worm Gear Drives

Section C

For Sub-Fractional Worm Gearmotors
See Mina-Gear™ Gearmotors

Section P

For High Efficiency Right Angle Gear Drives
See Poweratio® 2000 Helical Bevel and Helical Worm Units

Sections K & L

For Available Electric Motors

Section H

For Stainless Steel Worm Gear Drives
See HUB^{3}™

Section O

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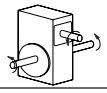
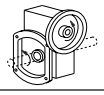
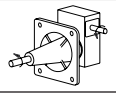
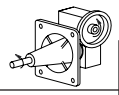
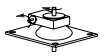
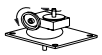
Model Index

SERIES										
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180	181 PAGE B-22,B-23	182 PAGE B-24,B-25	183 PAGE B-26,B-27	184 PAGE B-28,B-29	185 PAGE B-30,B-31	186 PAGE B-32,B-33			189V PAGE B-38,B-39	180V PAGE B-40,B-41
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380	381 PAGE B-22,B-23	382 PAGE B-24,B-25	383 PAGE B-26,B-27	384 PAGE B-28,B-29	385 PAGE B-30,B-31	386 PAGE B-32,B-33	387 PAGE B-34,B-35	388 PAGE B-36,B-37	389V PAGE B-38,B-39	380V PAGE B-40,B-41
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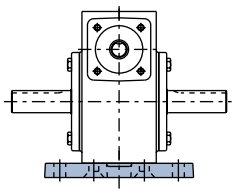
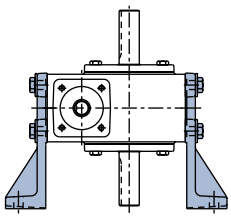
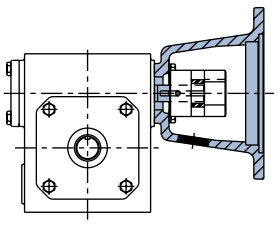
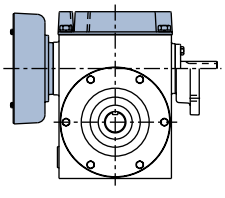
520	521 PAGE B-22,B-23	522 PAGE B-24,B-25	523 PAGE B-26,B-27	524 PAGE B-28,B-29	525 PAGE B-30,B-31	526 PAGE B-32,B-33	527 PAGE B-34,B-35	528 PAGE B-36,B-37	529V PAGE B-38,B-39	520V PAGE B-40,B-41
60	601 PAGE B-22,B-23	602 PAGE B-24,B-25	603 PAGE B-26,B-27				607 PAGE B-34,B-35		609V PAGE B-38,B-39	
70	701 PAGE B-22,B-23	702 PAGE B-24,B-25					707 PAGE B-34,B-35		709V PAGE B-38,B-39	
80	801 PAGE B-22,B-23						807 PAGE B-34,B-35		809V PAGE B-38,B-39	

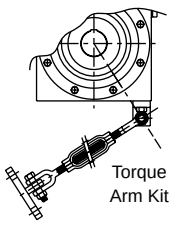
For Accessories Refer to Page B-92 to B-98


Universal Base Kits


Side Mounting Kits


NEMA "C" Flange Adaptor Kits


Fan Kits & Thermal Block Kits


Torque Arm Kit

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Thermal Rating — Quick Selection Chart

Series To Nearest Standard Motor HP

RATIO	OUTPUT RPM	SERVICE FACTOR	INPUT HORSEPOWER AT 1750 RPM								
			1/6 HP	1/4 HP	1/3 HP	1/2 HP	3/4 HP	1 HP	1 1/2 HP	2 HP	3 HP
5	350	1.00	130	130	130	130	130	130	180	210	260
		1.25	130	130	130	130	130	180	180	210	260
		1.50	130	130	130	130	130	180	180	210	260
		1.75	130	130	130	130	180	180	210	260	320
7.5	233	1.00	180	180	180	180	180	180			
		1.25	180	180	180	180	180	180			
		1.50	180	180	180	180	180	180			
		1.75	180	180	180	180	180	180			
10	175	1.00	130	130	130	130	180	180SL 210	210SL 260	260	260SL 320
		1.25	130	130	130	130	180	180SL 210	210SL 260	260	260SL 320
		1.50	130	130	130	130	180	180SL 210	260	260	320
		1.75	130	130	130	180	180	210	260	260	320
15	116.6	1.00	130	130	130	180	180SL 210	210	260	260F 320	320SL 380
		1.25	130	130	130	180	180SL 210	210	260	260F 320	320SL 380
		1.50	130	130	130	180	180SL 210	210	260	320	320SL 380
		1.75	130	130	130	180	210	260	260	320	320SL 380
20	87.5	1.00	130	130	130	180	210	210SL 260	260	260F 320	320F 380
		1.25	130	130	130	180	210	210SL 260	260	320	320F 380
		1.50	130	130	180	180	210	260	260	320	320F 380
		1.75	130	130	180	180	210	260	320	320	380
25	70.0	1.00	130	130	130	180	210	260	260	260F	320FSL
		1.25	130	130	180	180	210	260	260	320SL	320FSL
		1.50	130	130	180	180	210	260	260	320SL	
		1.75	130	180	180	210	260	260	320	320SL	
30	58.3	1.00	130	130	180	210	260	260SL 320	260F 320	320F 380	380F 450
		1.25	130	130	180	210	260	260SL 320	320	320F 380	380F 450
		1.50	130	180	180	210	260	260SL 320	320	320F 380	380F 450
		1.75	130	180	180	210	260	320	320	380	380F 450
40	43.8	1.00	130	130	180	210	260	260SL 320	320SL 380	320F 450	380FSL 520
		1.25	130	180	180	210	260	260SL 320	320SL 380	320F 450	380FSL 520
		1.50	130	180	180	210	260	320	320SL 380	380SL 450	450SL 520
		1.75	130	180	210	260	260	320	320SL 380	380SL 450	450SL 520
50	35.0	1.00	130	180	180	210	260	260SL 320	320F 380	380F 450	450F 520
		1.25	130	180	180	210	260	260SL 320	320F 380	380F 450	450F 520
		1.50	180	180	210	260	260	320	320F 380	380F 450	450F 520
		1.75	180	180	210	260	320	320	380	380F 450	520
60	29.2	1.00	130	180	210	210SL 260	260SL 320	320	320F 380	380F 450	450F 520
		1.25	180	180	210	260	320	320	320F 380	380F 450	450F 520
		1.50	180	180	210	260	320	320	380	380F 450	520
		1.75	180	210	260	260	320	320	380	450	520

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Thermal Rating — Quick Selection Chart

Series To Nearest Standard Motor HP

INPUT HORSEPOWER AT 1750 RPM									SERVICE FACTOR	OUTPUT RPM	RATIO
5	7 1/2	10	15	20	25	30	40	50			
320	320F 380	320FSL	380FSL						1.00	350	5
320	320F 380	380F							1.25		
320	320F 380	380F							1.50		
320	380	380F							1.75		
									1.00	233	7.5
									1.25		
									1.50		
									1.75		
320F 380	380F 450	450F 520	520F 60	60F 70	60FSL 80	70F	80F	80FSL	1.00	175	10
320F 380	380F 450	450F 520	520F 60	60F 70	70SL 80	70F	80F		1.25		
320F 380	380F 450	450F 520	520F 60	60F 70	70SL 80	80SL			1.50		
380	450	520	60	70	80				1.75		
380F 450	450F 520	520F							1.00	116.6	15
380F 450	450F 520	520F							1.25		
380F 450	450F 520	520F							1.50		
380F 450	520	520F							1.75		
380FSL 520	450FSL 60	520FSL 70	60FSL 80	70FSL	80F				1.00	87.5	20
380FSL 520	450FSL 60	520FSL 70	70SL 80	80F					1.25		
450SL 520	520SL 60	520FSL 70	70SL 80	80F					1.50		
450SL 520	520SL 60	60SL 70	80						1.75		
									1.00	70.0	25
									1.25		
									1.50		
									1.75		
520SL 60	60SL 70	60F 80	70FSL	80FSL					1.00	58.3	30
520SL 60	60SL 70	60F 80	80F						1.25		
520SL 60	60SL 70	70SL 80							1.50		
520SL 60	70	80							1.75		
520F 60	60F 80	70F	80FSL						1.00	43.8	40
520F 60	60F 80	70F							1.25		
520F 60	70SL 80	80SL							1.50		
60	80								1.75		
520FSL 70	60FSL 80	70FSL 80F							1.00	35.0	50
520FSL 70	70F 80	80F							1.25		
60SL 70	80								1.50		
70	80								1.75		
60SL 70	70F	80F							1.00	29.2	60
60SL 70	80SL								1.25		
70	80SL								1.50		
80									1.75		

F = Fan TB = Thermal Block SL - Synthetic Lubricant

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Mechanical Rating - Quick Reference Chart

Hub City Series To Nearest Standard Motor HP

1.00 SERVICE FACTOR AT 1750 RPM INPUT
FOR SERVICE FREE FROM SHOCK LOADING AND A TOTAL DURATION OF UP TO 10 HOURS PER DAY

RATIO	OUTPUT RPM	1/6 HP	1/4 HP	1/3 HP	1/2 HP	3/4 HP	1 HP	1 1/2 HP	2 HP	3 HP
5:1	350.0	130	130	130	130	130	130	180	180	210
7.5:1	233.3	180	180	180	180	180	180	180		
10:1	175.0	130	130	130	130	130	180	180	210	260
15:1	116.7	130	130	130	130	180	180	210	260	320
20:1	87.5	130	130	130	180	180	210	260	260	320
25:1	70.0	130	130	130	180	180	210	260	260	320
30:1	58.3	130	130	130	180	210	260	260	320	320
40:1	43.8	130	130	180	180	210	260	320	320	380
50:1	35.0	130	180	180	210	260	260	320	320	380
60:1	29.2	130	180	180	210	260	320	320	380	380

RATIO	OUTPUT RPM	5 HP	7 1/2 HP	10 HP	15 HP	20 HP	25 HP	30 HP	40 HP	50 HP
5:1	350.0	320	320	320	380					
10:1	175.0	320	320	380	450	520	60	60	70	80
15:1	116.7	320	380	450	520					
20:1	87.5	380	450	450	520	70	80	80		
30:1	58.3	380	450	520	70	80				
40:1	43.8	450	520	60	80					
50:1	35.0	450	60	70						
60:1	29.2	520	70	80						

Mechanical Rating - Quick Reference Chart

Hub City Series By Output Torque (IN.-LBS.)

1.00 SERVICE FACTOR AT 1750 RPM INPUT
FOR SERVICE FREE FROM SHOCK LOADING AND A TOTAL DURATION OF UP TO 10 HOURS PER DAY

RATIO	OUTPUT RPM	130	180	210	260	320	380	450	520	60	70	80
5:1	350.0	181	358	492	723	1820	2820					
7.5:1	233.3		415									
10:1	175.0	235	472	621	1260	2323	3510	5130	7330	10289	13413	17156
15:1	116.7	251	500	663	1110	2390	3750	5520	7850			
20:1	87.5	267	536	748	1380	2490	4030	5940	8927	11005	14945	19938
25:1	70.0	256	518	804	1600	2550						
30:1	58.3	259	518	684	1140	2450	3880	5761	8150	10448	14234	18980
40:1	43.8	263	536	748	1380	2490	4020	5950	8550	11030	14989	19148
50:1	35.0	250	489	765	1530	2440	4020	5930	8500	11033	15091	19244
60:1	29.2	224	448	640	986	2330	4041	5740	8290	10787	14718	18808

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Series 130 & 180 Ratings

FOR MOTOR SELECTION
REFER TO SECTION H

1750 RPM INPUT SPEED (HIGH SPEED SHAFT)

SERIES 130 MECHANICAL RATING					SERIES 130 THERMAL RATING				SERIES 180 MECHANICAL RATING					SERIES 180 THERMAL RATING			
		SERVICE FACTOR 1.00			DESIGN OPTION						SERVICE FACTOR 1.00			DESIGN OPTION			
					Basic Unit		With Synthetic Lube							Basic Unit		With Synthetic Lube	
RATIO	Output R.P.M.	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque	RATIO	Output R.P.M.	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque
5	350.0	1.10	181	91.4	1.01	166	1.10	181	5	350.0	2.17	358	91.6	1.50	248	1.64	271
10	175.0	.751	235	87.0	.629	197	.751	235	7.5	233.0	1.72	415	89.3	1.12	270	1.29	311
15	116.6	.562	251	82.7	.470	210	.562	251	10	175.0	1.51	472	86.8	.895	280	1.03	322
20	87.5	.460	267	80.6	.420	244	.460	267	15	116.6	1.12	500	82.6	.670	299	.771	344
25	70.0	.373	256	76.4	.356	244			20	87.5	.922	536	80.7	.596	346	.685	398
30	58.3	.337	259	71.1	.292	224	.337	259	25	70.0	.754	518	76.3	.502	344	.559	384
40	43.8	.268	263	68.1	.263	258	.268	263	30	58.3	.675	518	71.0	.408	313	.469	360
50	35.0	.224	250	62.0	.224	250	.224	250	40	43.8	.547	536	68.0	.369	362	.424	416
60	29.2	.183	224	56.7	.183	224	.183	224	50	35.0	.439	489	61.9	.334	372	.363	405
									60	29.2	.365	448	56.8	.282	346	.328	398

1150 RPM INPUT SPEED (HIGH SPEED SHAFT)

5	230.0	.845	212	91.6	.845	212			5	230.0	1.73	436	92.0	1.33	335	1.53	385
10	115.0	.553	261	86.1	.553	261			7.5	153.0	1.36	501	89.6	1.04	383	1.20	440
15	76.6	.430	288	81.5	.430	288			10	115.0	1.13	540	87.2	.834	399	1.00	479
20	57.5	.349	303	79.2	.349	303	NOT		15	76.6	.880	598	82.7	.627	426	.750	510
25	46.0	.286	292	74.6	.286	292			20	57.5	.750	659	80.1	.560	492	.644	566
30	38.3	.260	297	69.5	.260	297	REQUIRED		25	46.0	.583	608	76.0	.461	480	.530	552
40	28.8	.207	298	65.7	.207	298			30	38.3	.530	618	70.9	.388	452	.446	520
50	23.0	.174	284	59.6	.174	284			40	28.8	.431	633	67.0	.350	514	.403	591
60	19.1	.140	253	55.0	.140	253			50	23.0	.345	580	61.4	.301	506	.345	580
									60	19.1	.268	533	60.5	.268	533	.268	553

850 RPM INPUT SPEED (HIGH SPEED SHAFT)

5	170.0	.677	228	90.8	.677	228			5	170.0	1.42	482	91.6	1.26	428	1.42	482
10	85.0	.440	279	85.5	.440	279			7.5	113.0	1.12	551	88.5	1.00	492	1.12	551
15	56.6	.344	307	80.2	.344	307			10	85.0	.929	593	86.1	.800	511	.929	593
20	42.5	.280	322	77.6	.280	322	NOT		15	56.6	.750	678	81.3	.607	549	.750	678
25	34.0	.229	310	72.9	.229	310			20	42.5	.587	688	79.0	.542	635	.587	688
30	28.3	.210	316	67.7	.210	316	REQUIRED		25	34.0	.501	692	74.5	.447	617	.501	692
40	21.2	.167	316	63.8	.167	316			30	28.3	.440	676	69.1	.376	578	.440	676
50	17.0	.142	303	57.6	.142	303			40	21.2	.351	687	66.0	.343	671	.351	687
60	14.1	.108	253	52.7	.108	253			50	17.0	.285	631	59.7	.285	631	.285	631
									60	14.1	.236	573	54.6	.236	573	.236	573

690 RPM INPUT SPEED (HIGH SPEED SHAFT)

5	138.0	.575	237	90.3	.575	237			5	138.0	1.22	508	91.2	1.22	508	1.22	508
10	69.0	.376	289	84.2	.376	289			7.5	92.0	1.00	606	88.4	1.00	606	1.00	606
15	46.0	.294	318	79.0	.294	318			10	69.0	.792	620	85.7	.782	612	.792	620
20	34.5	.251	348	76.0	.251	348	NOT		15	46.0	.620	685	80.6	.591	653	.620	685
25	27.6	.199	321	71.0	.199	321			20	34.5	.503	717	78.0	.503	717	.503	717
30	23.0	.183	328	65.4	.183	328	REQUIRED		25	27.6	.411	690	73.4	.411	690	.411	690
40	17.2	.146	327	61.3	.146	327			30	23.0	.379	706	68.0	.371	691	.379	706
50	13.8	.124	312	55.1	.124	312			40	17.2	.306	715	64.0	.306	715	.306	715
60	11.5	.092	253	50.2	.092	253			50	13.8	.251	668	58.2	.251	668	.251	668
									60	11.5	.196	573	53.3	.196	573	.196	573

100 RPM INPUT SPEED (HIGH SPEED SHAFT)

5	20.0	.109	273	79.5	.109	273			5	20.0	.251	642	81.1	.251	642		
10	10.0	.075	328	69.4	.075	328			7.5	13.3	.192	688	75.8	.192	688		
15	6.6	.062	359	61.3	.062	359			10	10.0	.167	749	71.2	.167	749		
20	5.0	.051	372	57.9	.051	372	NOT		15	6.6	.135	805	63.1	.135	805		
25	4.0	.045	360	51.0	.045	360			20	5.0	.111	834	60.2	.111	834	NOT	
30	3.3	.043	370	45.5	.043	370	REQUIRED		25	4.0	.084	703	53.4	.084	703	REQUIRED	
40	2.5	.036	365	40.2	.036	365			30	3.3	.093	829	47.2	.093	829		
50	2.0	.029	312	34.1	.029	312			40	2.5	.077	830	42.8	.077	830		
60	1.6	.022	253	30.4	.022	253			50	2.0	.061	708	36.8	.061	708		
									60	1.6	.048	573	31.6	.048	573		

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 131 AND 134 225 LBS. AT CENTER POINT OF SHAFT EXTENSION.
MODELS 181 AND 184 400 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 182, 183, 185, AND 186 NOT APPLICABLE.
MODELS 189V AND 180V 300 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 450 LBS.

*OHL and Thrust values shown are independent functions and cannot be applied simultaneously. Refer applications with combined OHL and Thrust to Hub City Customer Service Department.

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HUB CITY

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FOR MOTOR SELECTION
REFER TO SECTION H

Series 210 & 260 Ratings

1750 RPM INPUT SPEED (HIGH SPEED SHAFT)

SERIES 210 MECHANICAL RATING					SERIES 210 THERMAL RATING				SERIES 260 MECHANICAL RATING					SERIES 260 THERMAL RATING						
		SERVICE FACTOR 1.00			DESIGN OPTION						SERVICE FACTOR 1.00			DESIGN OPTION						
					Basic Unit		With Synthetic Lube							Basic Unit		With Synthetic Lube		With Fan		
RATIO	Output R.P.M.	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque	RATIO	Output R.P.M.	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque	Input H.P.	Output Torque	Input H.P.	Output Torque
5	350.0	3.01	492	90.8	2.26	369	2.60	424	5	350.0	4.47	723	89.8	3.41	551	3.92	634	4.47	723	
10	175.0	2.01	621	85.8	1.40	433	1.61	498	10	175.0	3.91	1260	89.5	2.54	819	3.01	971	3.91	1260	
15	116.6	1.52	663	80.7	1.02	445	1.17	512	15	116.6	2.51	1110	81.9	1.63	721	1.87	829	2.51	1110	
20	87.5	1.31	748	79.3	.917	524	1.05	603	20	87.5	2.34	1380	81.9	1.50	885	1.73	1018	2.34	1380	
25	70.0	1.16	804	77.0	.817	566	.940	651	25	70.0	2.16	1600	82.3	1.51	1119	1.66	1227	2.16	1600	
30	58.3	.930	684	68.1	.623	458	.716	527	30	58.3	1.52	1140	69.4	.939	704	1.08	810	1.52	1140	
40	43.8	.787	748	66.0	.567	539	.652	620	40	43.8	1.36	1380	70.4	.927	941	1.07	1082	1.36	1380	
50	35.0	.673	765	63.1	.514	584	.591	672	50	35.0	1.21	1530	70.2	.876	1108	1.01	1274	1.21	1530	
60	29.2	.537	640	55.2	.440	524	.506	603	60	29.2	.838	986	54.5	.644	758	.750	883	.838	986	

1150 RPM INPUT SPEED (HIGH SPEED SHAFT)

5	230.0	2.40	601	91.4	2.02	506	2.32	582	5	230.0	3.67	915	91.0	3.01	749	3.40	849	3.67	915	
10	115.0	1.64	776	86.3	1.29	610	1.51	716	10	115.0	3.18	1570	90.1	2.34	1155	2.69	1378	3.18	1570	
15	76.6	1.23	826	81.7	.946	635	1.09	730	15	76.6	2.06	1410	83.3	1.51	1033	1.68	1149	2.06	1410	
20	57.5	1.05	918	79.8	.853	746	1.01	883	20	57.5	1.89	1710	82.5	1.38	1249	1.59	1436	1.89	1710	
25	46.0	.874	929	77.6	.772	821	.874	929	25	46.0	1.55	1760	82.9	1.36	1544	1.55	1760	1.55	1760	
30	38.3	.752	858	69.4	.583	665	.670	765	30	38.3	1.23	1450	71.7	.861	1015	1.01	1191	1.23	1450	
40	28.8	.624	912	66.7	.536	783	.616	900	40	28.8	1.09	1710	71.6	.866	1359	1.00	1563	1.09	1710	
50	23.0	.533	928	63.5	.501	872	.533	928	50	23.0	.920	1780	70.6	.831	1608	.920	1780	.920	1780	
60	19.1	.412	761	56.2	.412	761	.412	761	60	19.1	.670	1250	56.7	.602	1123	.670	1250	.670	1250	

850 RPM INPUT SPEED (HIGH SPEED SHAFT)

5	170.0	2.02	685	91.5	2.02	685	2.02	685	5	170.0	3.16	1070	91.3	2.76	935	3.16	1070	3.16	1070	
10	85.0	1.36	871	86.4	1.22	781	1.36	871	10	85.0	2.64	1760	89.9	2.20	1467	2.53	1687	2.64	1760	
15	56.6	1.03	929	81.1	.905	816	1.03	929	15	56.6	1.74	1610	83.2	1.40	1295	1.61	1489	1.74	1610	
20	42.5	.873	1019	78.7	.817	954	.873	1019	20	42.5	1.58	1920	81.9	1.32	1604	1.52	1845	1.58	1920	
25	34.0	.659	929	76.1	.659	929	.659	929	25	34.0	1.17	1760	81.2	1.17	1760	1.17	1760	1.17	1760	
30	28.3	.624	954	68.7	.563	861	.624	954	30	28.3	1.04	1660	71.8	.831	1326	1.00	1655	1.04	1660	
40	21.2	.525	1010	64.9	.518	997	.525	1010	40	21.2	.911	1920	71.1	.836	1762	.911	1920	.911	1920	
50	17.0	.410	934	61.5	.410	934	.410	934	50	17.0	.695	1780	69.1	.695	1780	.695	1780	.695	1780	
60	14.1	.312	761	54.8	.312	761	.312	761	60	14.1	.564	1430	57.0	.564	1430	.564	1430	.564	1430	

690 RPM INPUT SPEED (HIGH SPEED SHAFT)

5	138.0	1.77	735	90.9	1.77	735			5	138.0	2.81	1170	91.2	2.66	1108	2.81	1170			
10	69.0	1.19	928	85.4	1.19	928			10	69.0	2.30	1870	89.0	2.15	1748	2.30	1870			
15	46.0	.898	987	80.2	.898	987			15	46.0	1.52	1730	83.1	1.36	1548	1.52	1730			
20	34.5	.754	1077	78.2	.754	1077			20	34.5	1.38	2040	80.9	1.29	1907	1.38	2040			
25	27.6	.537	929	75.8	.537	929	NOT		25	27.6	1.01	1867	81.0	1.01	1867	1.01	1867	NOT		
30	23.0	.550	1014	67.3	.550	1014	REQUIRED		30	23.0	.921	1780	70.5	.807	1560	.921	1780	REQUIRED		
40	17.2	.455	1070	64.4	.455	1070			40	17.2	.798	2030	69.6	.798	2030	.798	2030			
50	13.8	.334	934	61.2	.334	934			50	13.8	.569	1780	68.5	.569	1780	.569	1780			
60	11.5	.258	761	53.8	.258	761			60	11.5	.501	1534	55.9	.501	1534	.501	1534			

100 RPM INPUT SPEED (HIGH SPEED SHAFT)

5	20.0	.364	939	81.9	.364	939			5	20.0	.614	1610	83.2	.614	1610					
10	10.0	.253	1150	72.1	.253	1150			10	10.0	.473	2320	77.8	.473	2320					
15	6.6	.202	1220	63.9	.202	1220			15	6.6	.346	2230	68.2	.346	2230					
20	5.0	.156	1190	60.5	.156	1190			20	5.0	.304	2510	65.5	.304	2510					
25	4.0	.104	929	56.7	.104	929	NOT		25	4.0	.174	1760	64.2	.174	1760	NOT REQUIRED				
30	3.3	.139	1250	47.6	.139	1250	REQUIRED		30	3.3	.234	2290	51.8	.234	2290					
40	2.5	.109	1200	43.7	.109	1200			40	2.5	.189	2380	50.0	.189	2380					
50	2.0	.075	934	39.5	.075	934			50	2.0	.120	1780	47.1	.120	1780					
60	1.6	.060	761	33.5	.060	761			60	1.6	.110	1500	36.1	.110	1500					

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 211 AND 214 550 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 212, 213, 215, AND 216 NOT APPLICABLE.
MODELS 219V AND 210V 500 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 600 LBS.
MODELS 261 AND 264 850 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 262, 263, 265, AND 266 NOT APPLICABLE.
MODELS 269V AND 260V 750 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 900 LBS.

*OHL and Thrust values shown are independent functions and cannot be applied simultaneously. Refer applications with combined OHL and Thrust to Hub City Customer Service Department.

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HUB CITY SINGLE REDUCTION WORM GEAR DRIVES

Series 320 & 380 Ratings

FOR MOTOR SELECTION
REFER TO SECTION H

1750 RPM INPUT SPEED (HIGH SPEED SHAFT)

SERIES 320 MECHANICAL RATING					SERIES 320 THERMAL RATING						SERIES 380 MECHANICAL RATING					SERIES 380 THERMAL RATING**					
		SERVICE FACTOR 1.00			DESIGN OPTION								SERVICE FACTOR 1.00			DESIGN OPTION					
					Basic Unit		With Synthetic Lube		With Fan & Synthetic Lube							Basic Unit		With Synthetic Lube		With Fan & Synthetic Lube	
RATIO	Output R.P.M.	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque	Input H.P.	Output Torque	RATIO	Output R.P.M.	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque	Input H.P.	Output Torque
5	350.0	11.1	1820	90.8	5.77	939	6.64	1080	10.3	1674	5	350.0	17.2	2820	91.1	8.09	1326	9.30	1525	15.1	2479
10	175.0	7.51	2323	85.9	3.31	1024	3.81	1178	5.90	1825	10	175.0	11.2	3510	87.0	5.01	1570	5.64	1766	8.73	2738
15	116.6	5.43	2390	81.5	2.57	1131	3.02	1327	4.58	2016	15	116.6	8.43	3750	82.4	3.54	1575	4.07	1811	6.31	2807
20	87.5	4.42	2490	78.2	2.12	1194	2.44	1373	3.78	2128	20	87.5	6.93	4030	80.7	3.01	1750	3.46	2013	5.37	3119
25	70.0	3.76	2550	75.3	1.83	1241	2.10	1427	3.27	2213											
30	58.3	3.29	2450	68.9	1.51	1124	1.74	1293	2.69	2004	30	58.3	5.06	3880	71.0	2.06	1580	2.37	1817	3.67	2816
40	43.8	2.67	2490	64.7	1.27	1184	1.51	1409	2.26	2110	40	43.8	4.09	4020	68.2	1.78	1750	2.05	2013	3.17	3119
50	35.0	2.23	2440	60.8	1.12	1225	1.29	1409	2.00	2184	50	35.0	3.43	4020	65.1	1.58	1852	1.82	2130	2.82	3301
60	29.2	1.89	2330	57.1	1.01	1245	1.16	1432	1.80	2119	60	29.2	3.01	4041	62.1	1.51	2027	1.63	2192	2.53	3397

1150 RPM INPUT SPEED (HIGH SPEED SHAFT)

5	230.0	9.02	2270	91.8	5.00	1258	5.61	1412	7.58	1906	5	230.0	13.8	3500	92.6	6.71	1702	7.72	1957	10.4	2642
10	115.0	5.89	2820	87.4	3.01	1441	3.46	1657	4.67	2237	10	115.0	9.09	4410	88.5	4.21	2042	5.01	2430	6.54	3170
15	76.6	4.40	3020	83.5	2.36	1620	2.71	1863	3.66	2515	15	76.6	6.81	4730	84.5	3.07	2132	3.53	2452	5.01	3477
20	57.5	3.60	3170	80.3	1.88	1655	2.16	1903	3.01	2648	20	57.5	5.64	5110	82.7	2.67	2419	3.07	2782	4.15	3755
25	46.0	3.06	3250	77.6	1.66	1765	2.00	2126	2.58	2740											
30	38.3	2.63	3120	72.2	1.35	1602	1.55	1842	2.10	2487	30	38.3	4.05	4900	73.6	1.81	2190	2.08	2519	2.81	3400
40	28.8	2.14	3170	67.6	1.15	1704	1.32	1960	1.79	2645	40	28.8	3.28	5100	70.9	1.60	2488	1.84	2861	2.48	3863
50	23.0	1.76	3090	64.1	1.03	1808	1.18	2079	1.60	2807	50	23.0	2.75	5100	67.7	1.51	2800	1.64	3050	2.22	4117
60	19.1	1.51	2970	59.8	.93	1837	1.07	2113	1.51	2970	60	19.1	2.13	4540	64.8	1.30	2771	1.50	3187	2.02	4302

850 RPM INPUT SPEED (HIGH SPEED SHAFT)

5	170.0	7.87	2700	92.5	4.55	1561	5.23	1795	6.02	2064	5	170.0	12.2	4190	92.6	6.14	2109	7.06	2425	8.12	2789
10	85.0	5.08	3310	87.9	2.82	1837	3.24	2113	3.73	2429	10	85.0	7.90	5220	89.1	3.92	2590	4.51	2979	5.18	3425
15	56.6	3.79	3540	84.0	2.14	1999	2.46	2299	2.83	2644	15	56.6	5.88	5570	85.2	3.01	2851	3.31	3137	3.81	3608
20	42.5	3.07	3680	80.8	1.78	2134	2.05	2454	2.35	2822	20	42.5	5.01	6195	83.4	2.51	3104	3.01	3718	3.32	4105
25	34.0	2.57	3710	78.0	1.62	2243	1.86	2580	2.14	2967											
30	28.3	2.24	3630	72.9	1.29	2090	1.50	2436	1.71	2764	30	28.3	3.46	5750	74.7	1.72	2858	2.01	3336	2.27	3780
40	21.2	1.81	3680	68.6	1.11	2257	1.28	2596	1.52	3087	40	21.2	2.80	5950	71.7	1.53	3251	1.76	3739	2.02	4299
50	17.0	1.51	3590	64.1	1.01	2401	1.13	2693	1.30	3097	50	17.0	2.22	5620	68.3	1.37	3468	1.58	3988	1.81	4586
60	14.1	1.13	3030	60.3	.901	2416	1.04	2778	1.13	3030	60	14.1	1.56	4540	65.4	1.25	3638	1.51	4387	1.65	4811

690 RPM INPUT SPEED (HIGH SPEED SHAFT)

5	138.0	7.03	2970	92.5	4.36	1842	5.01	2118	5.26	2224	5	138.0	10.9	4640	93.2	5.93	2524	6.82	2903	7.51	3195
10	69.0	4.51	3620	87.9	2.73	2191	3.14	2520	3.30	2646	10	69.0	7.03	5730	89.2	3.77	3073	4.34	3534	4.55	3711
15	46.0	3.36	3860	83.9	2.06	2367	2.37	2757	2.49	2894	15	46.0	5.24	6120	85.2	2.77	3235	3.19	3720	3.54	3906
20	34.5	2.72	4010	80.7	1.73	2550	2.03	2992	2.09	3079	20	34.5	4.27	6500	83.3	2.44	3714	2.81	4271	3.01	4576
25	27.6	2.09	3710	77.9	1.58	2811	1.82	3233	2.00	3558											
30	23.0	2.01	4010	72.8	1.25	2494	1.51	3007	1.51	3012	30	32.0	3.10	6310	74.3	1.67	3399	2.01	4092	2.02	4104
40	17.2	1.60	4000	68.4	1.08	2700	1.24	3105	1.30	3260	40	17.2	2.48	6480	71.5	1.52	3972	1.70	4447	1.79	4669
50	13.8	1.28	3740	64.0	1.01	2952	1.11	3243	1.17	3405	50	13.8	1.80	5620	68.4	1.34	4184	1.54	4812	1.62	5052
60	11.5	.912	3030	60.6	.883	2934	.912	3030	.912	3030	60	11.5	1.27	4540	65.2	1.23	4397	1.27	4540	1.27	4540

100 RPM INPUT SPEED (HIGH SPEED SHAFT)

5	20.0	1.56	4210	85.6	1.56	4210					5	20.0	2.46	6770	87.3	2.46	6770				
10	10.0	1.02	4980	77.5	1.02	4980					10	10.0	1.59	8020	80.0	1.59	8020				
15	6.6	.785	5280	71.2	.785	5280					15	6.6	1.23	8500	73.1	1.23	8500				
20	5.0	.583	4840	65.9	.583	4840					20	5.0	.84	7350	69.2	.84	7350				
25	4.0	.383	3710	61.5	.383	3710	NOT REQUIRED											NOT REQUIRED			
30	3.3	.517	5420	55.5	.517	5420					30	3.3	.79	8720	58.3	.79	8720				
40	2.5	.391	4880	49.5	.391	4880					40	2.5	.55	7460	53.7	.55	7460				
50	2.0	.265	3740	44.8	.265	3740					50	2.0	.36	5620	49.4	.36	5620				
60	1.6	.197	3030	40.7	.197	3030					60	1.6	.27	4540	45.3	.27	4540				

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 321 AND 324 1,100 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 322, 323, 325, AND 326 NOT APPLICABLE.
MODELS 327 AND 328 — *OHL 1,280 LBS., TO* THRUST OUT 1,790 LBS. AND TI* THRUST IN 1,210 LBS.
MODELS 329V AND 320V 1,050 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 1,200 LBS.
MODELS 381 AND 384 1,600 LBS. AT CENTER POINT OF SHAFT EXTENSION.
MODELS 382, 383, 385, AND 386 NOT APPLICABLE.
MODELS 387 AND 388 — OHL* 1,970 LBS., TO* THRUST OUT 1,950 LBS. AND TI* THRUST IN 1,500 LBS.
MODELS 389V AND 380V 1,600 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 1,500 LBS.

*OHL and Thrust values shown are independent functions and cannot be applied simultaneously. Refer applications with combined OHL and Thrust to Hub City Customer Service Department.
**Thermal ratings may be increased by using a thermal block kit (page B-96). Consult factory for ratings.

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FOR MOTOR SELECTION
REFER TO SECTION H

Series 450 & 520, Ratings

1750 RPM INPUT SPEED (HIGH SPEED SHAFT)

SERIES 450 MECHANICAL RATING					SERIES 450 THERMAL RATING**						SERIES 520 MECHANICAL RATING					SERIES 520 THERMAL RATING**					
		SERVICE FACTOR 1.00			DESIGN OPTION								SERVICE FACTOR 1.00			DESIGN OPTION					
					Basic Unit		With Synthetic Lube		With Fan & Synthetic Lube							Basic Unit		With Synthetic Lube		With Fan & Synthetic Lube	
RATIO	Output R.P.M.	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque	Input H.P.	Output Torque	RATIO	Output R.P.M.	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque	Input H.P.	Output Torque
10	175.0	16.3	5130	87.4	7.55	2376	8.68	2732	12.2	3825	10	175.0	23.1	7330	87.7	10.8	3427	12.4	3941	17.4	5518
15	116.6	12.4	5520	82.4	5.35	2382	6.15	2739	8.61	3835	15	116.6	17.3	7850	83.7	7.77	3526	8.94	4055	12.5	5677
20	87.5	10.2	5940	80.9	4.53	2638	5.21	3034	7.50	4369	20	87.5	15.0	8927	82.5	6.54	3892	7.52	4476	10.5	6266
30	58.3	7.51	5761	71.0	3.02	2316	3.38	2593	4.73	3631	30	58.3	10.3	8150	72.9	4.42	3494	5.08	4018	7.12	5625
40	43.8	6.01	5950	68.8	2.65	2624	3.05	3018	4.27	4225	40	43.8	8.36	8550	70.9	3.78	3866	4.35	4446	6.09	6224
50	35.0	5.01	5930	65.7	2.30	2722	2.65	3130	3.70	4382	50	35.0	6.94	8500	68.0	3.27	4005	3.76	4606	5.26	6448
60	29.2	4.23	5740	62.9	2.07	2809	2.38	3230	3.45	4522	60	29.2	5.85	8290	65.6	3.01	4265	3.39	4807	4.75	6730

1150 RPM INPUT SPEED (HIGH SPEED SHAFT)

10	115.0	13.2	6400	88.5	6.18	2996	7.11	3445	9.24	4479	10	115.0	18.6	9100	89.5	8.70	4526	10.0	4894	13.0	6363
15	76.6	10.1	7040	84.7	4.47	3116	5.14	3583	6.68	4658	15	76.6	13.9	9790	85.9	6.39	4501	7.51	5289	10.0	7046
20	57.5	8.18	7460	83.2	3.89	3548	4.47	4080	5.82	5304	20	57.5	11.5	10630	84.6	5.51	5093	6.34	5857	8.24	7614
30	38.3	5.81	7100	74.3	2.63	3214	3.02	3696	3.93	4805	30	38.3	8.12	10170	76.1	3.70	4634	4.26	5329	5.53	6928
40	28.8	4.74	7460	72.0	2.31	3636	2.66	4181	3.45	5436	40	28.8	6.59	10700	74.0	3.27	5309	3.76	6105	4.89	7937
50	23.0	3.95	7460	68.9	2.05	3872	2.36	4453	3.06	5789	50	23.0	5.49	10710	71.2	3.01	5872	3.30	6439	4.29	8371
60	19.1	3.36	7290	65.8	1.87	4057	2.15	4666	2.80	6065	60	19.1	4.64	10490	68.7	2.61	5901	3.00	6786	3.90	8822

850 RPM INPUT SPEED (HIGH SPEED SHAFT)

10	85.0	11.5	7640	89.6	5.66	3760	6.51	4324	7.50	4982	10	85.0	16.3	10870	90.2	7.50	5002	8.63	5752	9.49	6328
15	56.6	8.63	8230	85.6	4.14	3948	5.01	4779	5.24	4994	15	56.6	12.1	11700	86.9	5.84	5647	6.72	6494	7.51	7259
20	42.5	7.10	8850	84.1	3.63	4525	4.17	5204	4.59	5724	20	42.5	10.0	12740	85.5	5.15	6561	5.92	7545	6.51	8300
30	28.3	5.05	8500	75.7	2.46	4626	2.83	5320	3.11	5852	30	28.3	7.03	12120	77.5	3.44	5931	3.96	6821	4.35	7503
40	21.2	3.94	8520	73.0	2.19	4584	2.52	5272	2.77	5799	40	21.2	5.70	12720	75.2	3.06	6829	3.52	7853	3.87	8639
50	17.0	3.39	8780	69.9	2.02	5231	2.25	5837	2.48	6421	50	17.0	4.72	12630	72.3	2.72	7278	3.13	8370	3.44	9207
60	14.1	2.55	7610	66.8	1.78	5312	2.05	6109	2.25	6720	60	14.1	3.50	10830	69.8	2.48	7679	3.01	9320	3.14	9708

690 RPM INPUT SPEED (HIGH SPEED SHAFT)

10	69.0	10.4	8480	89.3	5.44	4436	6.26	5101	6.57	5356	10	69.0	15.1	12460	90.5	7.51	6197	8.34	6879	8.75	7223
15	46.0	7.72	9090	85.9	4.00	4710	4.60	5417	5.01	5899	15	46.0	10.9	13040	87.2	5.65	6759	6.50	7773	6.82	8161
20	34.5	6.33	9740	84.2	3.51	5401	4.04	6211	4.24	6522	20	34.5	8.97	14050	85.7	5.01	7848	5.68	8899	5.97	9344
30	23.0	4.50	9390	76.2	2.39	4987	2.75	5735	3.01	6272	30	23.0	6.31	13490	77.9	3.32	7098	3.82	8163	4.01	8571
40	17.2	3.64	9730	73.0	2.13	5694	2.45	6548	2.57	6876	40	17.2	5.09	14030	75.5	3.02	8325	3.44	9478	3.61	9952
50	13.8	3.00	9570	69.9	2.01	6412	2.19	6970	2.29	7319	50	13.8	4.10	13610	72.5	2.66	8830	3.06	10155	3.21	10662
60	11.5	2.07	7610	67.1	1.74	6397	2.00	7357	2.10	7724	60	11.5	2.83	10830	69.8	2.46	9261	2.78	10650	3.01	11528

100 RPM INPUT SPEED (HIGH SPEED SHAFT)

10	10.0	2.43	12530	81.8	2.43	12530	NOT REQUIRED				10	10.0	3.48	18310	83.6	3.48	18310	NOT REQUIRED			
15	6.6	1.86	13290	75.6	1.86	13290					15	6.6	2.64	19430	78.1	2.64	19430				
20	5.0	1.35	12340	72.5	1.35	12340					20	5.0	2.01	18928	74.9	2.01	18928				
30	3.3	1.17	13620	61.0	1.17	13620					30	3.3	1.64	19980	64.6	1.64	19980				
40	2.5	.88	12570	57.0	.88	12570					40	2.5	1.17	17870	60.3	1.17	17870				
50	2.0	.58	9570	52.5	.58	9570					50	2.0	.77	13610	56.1	.77	13610				
60	1.6	.41	7610	48.7	.41	7610					60	1.6	.55	10890	52.3	.55	10890				

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 451 AND 454 2,200 LBS. AT CENTER POINT OF SHAFT EXTENSION.
MODELS 452, 453, 455, AND 456 NOT APPLICABLE.
MODELS 457 AND 458 — OHL* 2,370 LBS., TO* THRUST OUT 3,330 LBS. AND TI* THRUST IN 3,140 LBS.
MODELS 459V AND 450V 2,000 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 2,500 LBS.
MODELS 521 AND 524 2,600 LBS. AT CENTER POINT OF SHAFT EXTENSION.
MODELS 522, 523, 525, AND 526 NOT APPLICABLE.
MODELS 527 AND 528 — OHL* 3,550 LBS., TO* THRUST OUT 4,530 LBS. AND TI* THRUST IN 3,360 LBS.
MODELS 529V AND 520V 2,300 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 3,000 LBS.

*OHL and Thrust values shown are independent functions and cannot be applied simultaneously. Refer applications with combined OHL and Thrust to Hub City Customer Service Department.
**Thermal ratings may be increased by using a thermal block kit (page B-96). Consult factory for ratings.

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Series 60 & 70 Ratings

FOR MOTOR SELECTION
REFER TO SECTION H

1750 RPM INPUT SPEED (HIGH SPEED SHAFT)

SERIES 60 MECHANICAL RATING					SERIES 60 THERMAL RATING						SERIES 70 MECHANICAL RATING					SERIES 70 THERMAL RATING					
		SERVICE FACTOR 1.00			DESIGN OPTION								SERVICE FACTOR 1.00			DESIGN OPTION					
					Basic Unit		With Synthetic Lube		With Fan & Synthetic Lube							Basic Unit		With Synthetic Lube		With Fan & Synthetic Lube	
RATIO	Output R.P.M.	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque	Input H.P.	Output Torque	RATIO	Output R.P.M.	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque	Input H.P.	Output Torque
10	175.0	30.2	10289	94.6	15.4	5255	17.7	6043	26.5	9039	10	175.0	40.3	13788	95.0	21.4	7331	25.1	8599	36.9	12646
20	87.5	17.3	11005	88.3	9.30	5914	10.7	6801	16.0	10201	20	87.5	22.7	14945	91.5	12.6	8294	15.1	9950	21.6	14234
30	58.3	12.4	10448	78.2	6.76	5708	7.78	6565	11.6	9847	30	58.3	15.1	14234	87.3	8.43	7942	10.1	9525	14.3	13480
40	43.8	10.0	11030	76.3	5.52	6070	6.35	6980	9.51	10470	40	43.8	12.3	14989	84.7	6.99	8513	8.04	9790	11.7	14243
50	35.0	8.32	11033	73.6	4.75	6308	5.47	7254	8.20	10881	50	35.0	10.2	15091	82.1	5.98	8829	6.87	10153	10.1	14341
60	29.2	6.95	10787	71.8	4.17	6494	5.01	7773	6.95	10787	60	29.2	8.55	14718	79.7	5.27	9077	6.06	10438	8.14	14018

1150 RPM INPUT SPEED (HIGH SPEED SHAFT)

10	115.0	25.2	12927	93.6	13.0	6668	15.1	7763	20.1	10329	10	115.0	32.4	16735	94.0	17.8	9198	20.5	10578	26.7	13751
20	57.5	14.0	13641	89.1	7.63	7447	8.78	8565	11.4	11134	20	57.5	18.8	18597	89.9	10.6	10463	12.2	12033	15.8	15642
30	38.3	10.2	13416	80.0	5.46	7180	6.28	8257	8.16	10734	30	38.3	12.7	17708	85.1	7.51	10469	8.26	11510	10.7	14964
40	28.8	7.91	13650	78.7	4.42	7631	5.09	8775	6.60	11408	40	28.8	10.4	18618	82.0	5.94	10679	6.84	12281	8.89	15965
50	23.0	6.59	13758	76.2	3.80	7950	4.37	9140	5.69	11884	50	23.0	8.58	18618	79.2	5.19	11300	5.97	12996	7.77	16895
60	19.1	5.56	13430	73.5	3.37	8139	3.88	9383	5.05	12209	60	19.1	7.50	18866	76.5	4.55	11451	5.24	13169	6.81	17120

850 RPM INPUT SPEED (HIGH SPEED SHAFT)

10	85.0	21.2	14572	92.7	11.4	7823	13.1	8996	15.1	10350	10	85.0	28.3	19555	93.2	15.7	10889	18.1	12522	20.8	14400
20	42.5	12.5	16277	87.8	6.82	8852	7.84	10180	9.02	11706	20	42.5	16.6	21775	88.5	8.77	11439	10.1	13155	11.6	15128
30	28.3	8.41	15353	82.1	4.65	8480	5.35	9752	6.15	11215	30	28.3	11.1	20659	83.2	6.37	11821	7.51	13948	8.42	15634
40	21.2	6.99	16270	78.6	3.89	9055	4.47	10414	5.14	11976	40	21.2	9.23	21844	79.8	5.30	12536	6.09	14417	7.01	16580
50	17.0	5.89	16437	75.3	3.37	9408	3.87	10820	4.45	12442	50	17.0	7.78	22145	76.8	4.61	13127	5.30	15096	6.10	17360
60	14.1	5.05	16288	72.5	3.03	9986	3.48	11484	4.00	13206	60	14.1	6.58	21642	73.9	4.10	13494	4.71	15518	5.42	17846

690 RPM INPUT SPEED (HIGH SPEED SHAFT)

10	69.0	20.3	17077	92.1	10.5	8852	12.1	10180	12.7	10689	10	69.0	26.2	22187	92.6	15.1	12751	16.6	14055	17.5	14758
20	34.5	11.5	18219	86.7	6.26	9906	7.51	11898	7.55	11961	20	34.5	15.4	24750	87.6	8.63	13863	10.1	16195	10.4	16708
30	23.0	7.82	17324	80.8	4.33	9585	5.01	11089	5.23	11574	30	23.0	10.4	23410	81.9	5.91	13260	6.80	15249	7.51	16841
40	17.2	6.47	18200	77.0	3.62	10178	4.16	11705	4.37	12290	40	17.2	8.67	24801	78.3	5.01	14329	5.67	16215	5.95	17026
50	13.8	5.45	18269	73.5	3.14	10534	3.61	12114	3.79	12720	50	13.8	7.52	25827	75.2	4.31	14798	5.01	17188	5.21	17867
60	11.5	4.53	17525	70.5	2.82	10905	3.24	12541	3.41	13167	60	11.5	6.17	24386	72.1	3.84	15148	4.41	17421	4.63	18292

100 RPM INPUT SPEED (HIGH SPEED SHAFT)

10	10.0	4.83	25972	85.3	4.83	25972					10	10.0	6.94	37544	85.9	6.94	37544				
20	5.0	2.90	28115	76.8	2.90	28115					20	5.0	4.16	40710	77.6	4.16	40710				
30	3.3	2.17	27727	67.5	2.17	27727	NOT REQUIRED				30	3.3	3.09	40113	68.7	3.09	40113	NOT REQUIRED			
40	2.5	1.76	27990	63.0	1.76	27990					40	2.5	2.51	40259	64.1	2.51	40259				
50	2.0	1.19	22124	59.0	1.19	22124					50	2.0	1.84	34785	60.0	1.84	34785				
60	1.6	.84	17258	55.4	.84	17258					60	1.6	1.30	27717	56.7	1.30	27717				

Series 60

WR^2 (LBS. $IN.^2$)	RATIO	10:1	20:1	30:1	40:1	50:1	60:1
Referred to	Unit With Fan	37.8	34.0	36.3	33.1	31.6	30.7
High Speed Shaft	Unit Without Fan	22.5	18.7	20.7	17.8	16.3	15.5

WR^2 referred to Low Speed Shaft equals (exact ratio) squared times WR^2 referred to High Speed Shaft.

Example: 10:1 Ratio With Fan — WR^2 L.S.S. = 37.8 x $(10)^2$ = 3780 L.B.-$IN.^2$

Series 70

WR^2 (LBS. $IN.^2$)	RATIO	10:1	20:1	30:1	40:1	50:1	60:1
Referred to	Unit With Fan	77.6	68.4	73.4	66.1	63.2	61.9
High Speed Shaft	Unit Without Fan	46.5	37.3	42.3	35.0	32.1	30.7

WR^2 referred to Low Speed Shaft equals (exact ratio) squared times WR^2 referred to High Speed Shaft.

Example: 10:1 Ratio With Fan — WR^2 L.S.S. = 77.6 x $(10)^2$ = 7760 LB.-$IN.^2$

OVERHUNG LOAD - LOW SPEED SHAFT — MODEL 601 4,000 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 602 AND 603 NOT APPLICABLE.
MODEL 607 — OHL* 5,200 LBS., TO* THRUST OUT 5,900 LBS. AND TI* THRUST IN 3,400 LBS.
MODEL 609V 3,800 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 3,400 LBS.
MODEL 701 5,500 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODEL 702 NOT APPLICABLE.
MODEL 707 — OHL* 6,400 LBS., TO* THRUST OUT 7,000 LBS. AND TI* THRUST IN 5,000 LBS.
MODEL 709V 5,500 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 5,000 LBS.

*OHL and Thrust values shown are independent functions and cannot be applied simultaneously. Refer applications with combined OHL and Thrust to Hub City Customer Service Department.

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FOR MOTOR SELECTION
REFER TO SECTION H

Series 80, Ratings

SERIES 80 MECHANICAL RATING					SERIES 80 THERMAL RATING					
		SERVICE FACTOR 1.00			DESIGN OPTION					
					Basic Unit		With Synthetic Lube		With Fan & Synthetic Lube	
RATIO	Output R.P.M.	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque	Input H.P.	Output Torque
1750 RPM INPUT SPEED (HIGH SPEED SHAFT)										
10	175.0	50.0	17156	95.2	28.1	9650	32.3	11095	50.0	17156
20	87.5	30.1	19938	91.8	16.5	10905	18.9	12541	28.4	18812
30	58.3	20.1	18980	87.4	10.7	10104	12.3	11620	20.1	18980
40	43.8	15.6	19148	85.2	9.12	11196	10.5	12876	15.6	19148
50	35.0	12.9	19244	82.7	7.80	11641	8.97	13387	12.9	19244
60	29.2	10.8	18808	80.4	6.89	11962	7.92	13755	10.8	18808
1150 RPM INPUT SPEED (HIGH SPEED SHAFT)										
10	115.0	41.7	21532	94.3	23.7	12229	27.2	14064	35.4	18203
20	57.5	25.1	24884	90.3	13.9	13780	16.0	15868	20.8	20625
30	38.3	16.3	22758	85.1	9.06	12680	10.4	14582	13.5	18960
40	28.8	13.2	23935	82.6	7.76	14068	8.92	16178	11.6	21032
50	23.0	11.0	24078	79.8	6.68	14998	7.69	17248	10.1	22669
60	19.1	9.23	23422	77.2	5.92	15025	6.81	17279	8.85	22463
850 RPM INPUT SPEED (HIGH SPEED SHAFT)										
10	85.0	36.2	25121	93.5	20.8	14413	25.0	17372	27.5	19060
20	42.5	21.1	27860	89.0	12.3	16204	14.1	18573	16.2	21430
30	28.3	15.0	27827	83.4	8.13	15087	10.1	18792	10.8	19952
40	21.2	11.7	27878	80.5	6.92	16495	7.96	18970	9.16	21815
50	17.0	10.1	29010	77.4	5.97	17157	6.87	19731	7.90	22690
60	14.1	8.26	27428	74.6	5.31	17649	6.11	20296	7.03	23346
690 RPM INPUT SPEED (HIGH SPEED SHAFT)										
10	69.0	33.2	28184	92.9	20.0	16940	21.9	18534	23.0	19460
20	34.5	20.0	32090	88.0	11.2	17970	12.9	20758	13.6	21796
30	23.0	13.2	29689	81.7	7.71	17300	8.87	19900	9.31	20890
40	17.2	10.9	31538	78.9	6.40	18371	7.51	21557	7.73	22183
50	13.8	9.20	31831	75.8	5.58	19031	6.42	22196	6.74	23306
60	11.5	7.82	31172	72.7	5.01	19951	5.69	22670	5.97	23802
100 RPM INPUT SPEED (HIGH SPEED SHAFT)										
10	10.0	10.1	54882	86.2	10.1	54882	NOT REQUIRED			
20	5.0	5.71	56097	78.0	5.71	56097				
30	3.3	4.27	55257	68.4	4.27	55257				
40	2.5	3.44	55849	64.5	3.44	55849				
50	2.0	2.75	52325	60.4	2.75	52325				
60	1.6	2.10	43192	56.8	2.10	43192				

WR^2 (LB. $IN.^2$) Referred to High Speed Shaft	RATIO	10:1	20:1	30:1	40:1	50:1	60:1
	Unit With Fan	135.0	110.0	130.7	115.1	110.1	107.7
	Unit Without Fan	87.5	71.6	83.3	67.6	62.7	60.3

WR^2 referred to Low Speed Shaft equals (exact ratio) squared times WR^2 referred to High Speed Shaft.

Example: 10:1 Ratio With Fan — WR^2 L.S.S. = 135.0 x $(10)^2$ = 13500 LB.-IN^2

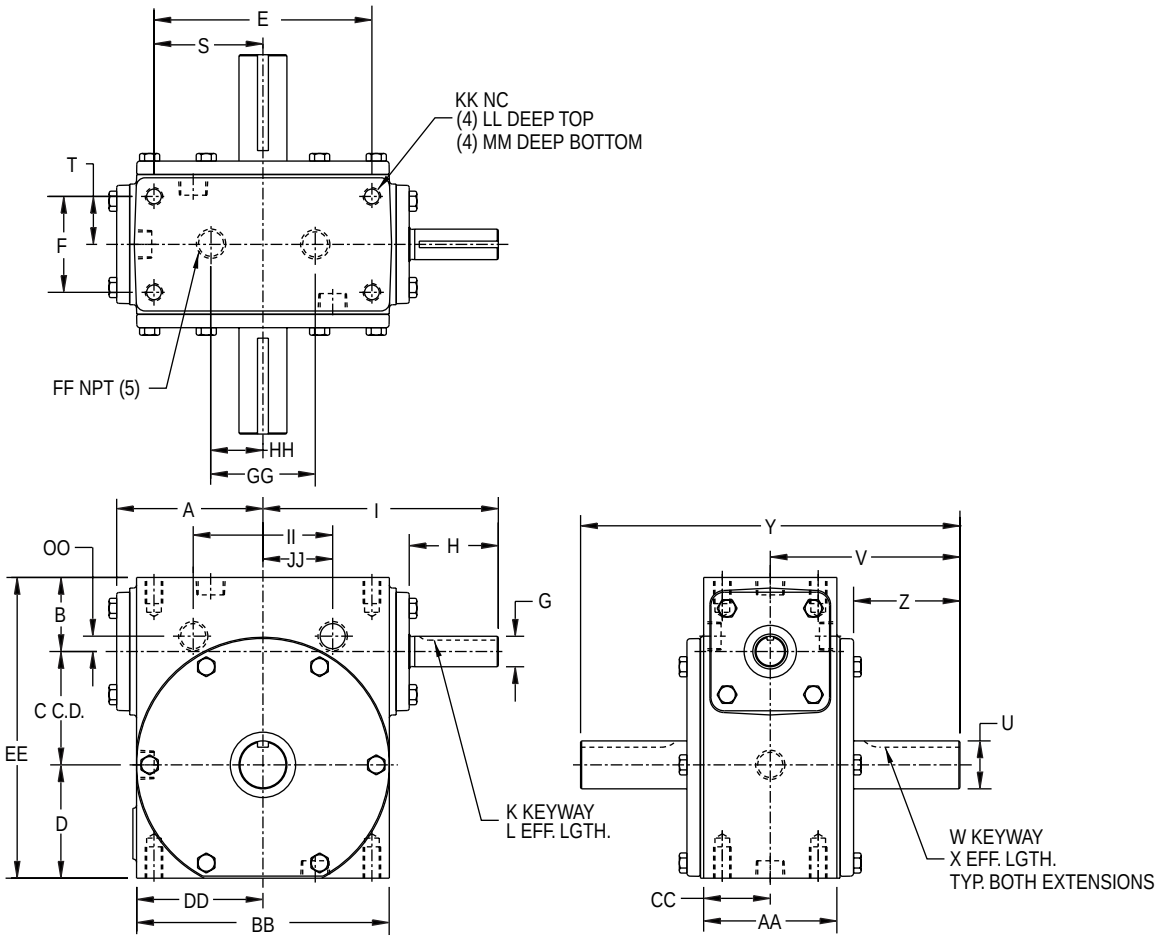
OVERHUNG LOAD - LOW SPEED SHAFT — MODEL 801 7,000 LBS. AT CENTER POINT OF SHAFT EXTENSION.
MODEL 807 — OHL* 9,800 LBS., TO* THRUST OUT 8,300 LBS. AND TI* THRUST IN 6,500 LBS.
MODEL 809V 7,000 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 6,500 LBS.
*OHL and Thrust values shown are independent functions and cannot be applied simultaneously. Refer applications with combined OHL and Thrust to Hub City Customer Service Department.

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

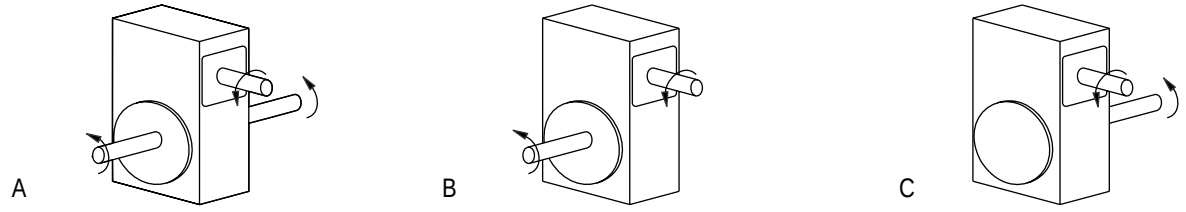
Models 131, 181, 211, 261, 321, 381, 451, 521, 601(F), 701(F) & 801(F)

FOR LUBRICATION AND INSTALLATION
INSTRUCTIONS - REFER TO SECTION R



Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 131, 181, 211, 261, 321, 381, 451, 521, 601(F), 701(F) & 801(F)

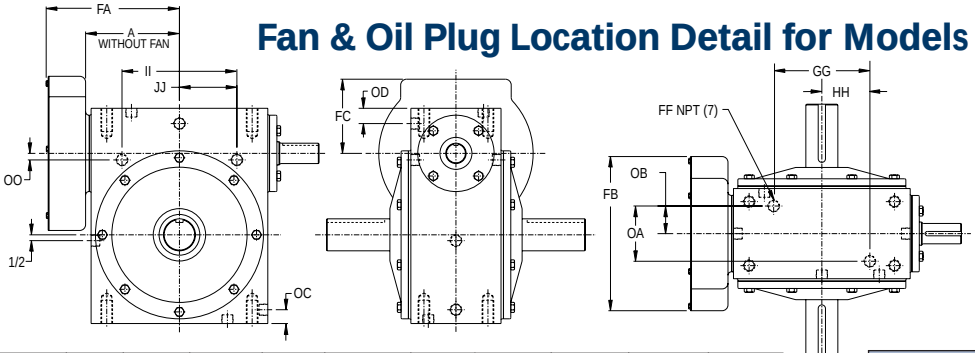
MODEL	A	B	C	D	E	F	G	H	I	K	L
131	2	1.186	1.334	1.562	2-1/4	1-5/8	.500/.499	1-11/16	3-1/2	1/8 X 1/16	1-9/32
181	2-15/32	1.374	1.751	1.875	3-1/8	1-5/8	.500/.499	1-27/32	4	1/8 X 1/16	1-13/32
211	2-29/32	1.499	2.064	2.437	4	2	.625/.624	1-29/32	4-7/16	3/16 X 3/32	1-3/8
261	3-13/32	1.874	2.626	2.938	4-7/8	2-11/16	.625/.624	2-23/32	5-5/8	3/16 X 3/32	2-3/16
321	4-3/16	2.124	3.251	3.250	6-1/4	2-3/4	.875/.874	2-9/16	6-3/4	3/16 X 3/32	2
381	4-11/16	2.374	3.751	3.937	6-7/8	3	1.000/.999	2-9/16	7-1/8	1/4 X 1/8	1-29/32
451	5-7/32	2.499	4.500	4.625	8-1/8	3-1/4	1.125/1.124	3-7/32	8-7/16	1/4 X 1/8	2-1/2
521	5-13/32	2.624	5.168	5.375	9-1/2	3-3/4	1.250/1.249	3-9/32	9-1/4	1/4 X 1/8	2-5/8
601 & 601F	SEE BELOW	3.250	6.000	6.625	11	4-7/8	1.500/1.499	3-15/32	10-3/4	3/8 X 3/16	3
701 & 701F	SEE BELOW	3.875	7.000	7.625	12-1/2	5-1/2	1.750/1.749	3-5/8	12	3/8 X 3/16	3-1/8
801 & 801F	SEE BELOW	4.500	8.000	8.750	14-3/4	6-1/2	1.875/1.874	3-7/8	13-5/8	1/2 X 1/4	3-3/8

MODEL	S	T	U	V	W	X	Y	Z	AA	BB
131	1-1/8	13/16	.625/.624	3-1/4	3/16 X 3/32	1-5/16	6-1/2	1-25/32	2-1/4	3-5/32
181	1-9/16	13/16	.750/.749	3-1/2	3/16 X 3/32	1-15/32	7	1-15/16	2-3/8	3-15/16
211	2	1	.875/.874	4-1/4	3/16 X 3/32	1-13/16	8-1/2	2-3/8	2-15/16	4-7/8
261	2-7/16	1-11/32	1.250/1.249	4-1/2	1/4 X 1/8	1-25/32	9	2-13/32	3-7/16	5-5/8
321	3-1/8	1-3/8	1.375/1.374	5-7/16	5/16 X 5/32	2-5/16	10-7/8	3-1/16	3-13/16	7-3/8
381	3-7/16	1-1/2	1.500/1.499	6-11/16	3/8 X 3/16	3-5/32	13-3/8	4	4	8
451**	4-1/16	1-5/8	1.625/1.624	7-1/4	3/8 X 3/16	3-9/32	14-1/2	4-3/16	4-5/8	9-1/4
521***	4-3/4	1-7/8	1.750/1.749	7-13/16	3/8 X 3/16	3-1/2	15-5/8	4-15/32	5-1/16	10-3/4
601 & 601F	5-1/2	2-7/16	2.250/2.249	10-1/4	1/2 X 1/4	4-1/2	20-1/2	5-1/8	6-3/4	13-1/4
701 & 701F	6-1/4	2-3/4	2.750/2.749	11-1/8	5/8 X 5/16	5	22-1/4	5-7/16	7-3/4	15-3/16
801 & 801F	7-3/8	3-1/4	3.250/3.248	12-3/4	3/4 X 3/8	5-5/8	25-1/2	6-1/4	9	17-3/4

**ALSO AVAILABLE WITH 1.750/1.749 (U) DIAMETER OUTPUT SHAFT. CONSULT FACTORY
***ALSO AVAILABLE WITH 2.000/1.999 (U) DIAMETER OUTPUT SHAFT. CONSULT FACTORY

MODEL	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	OO	Wt. Lbs.
131	1-1/8	1-19/32	4.082	1/8	7/8	7/16	7/8	7/16	1/4 NC	13/32	15/32	9/32	9
181	1-3/16	2	5.000	1/8	1-1/2	3/4	1-1/2	3/4	1/4 NC	13/32	1/2	9/32	12
211	1-15/32	2-7/16	6.000	1/4	2-1/4	1-1/8	2-7/8	1-7/16	3/8 NC	1/2	11/16	3/8	19
261	1-23/32	2-13/16	7.438	1/4	2-1/2	1-1/4	2-1/2	1-1/4	3/8 NC	9/16	11/16	5/16	28
321	1-29/32	3-11/16	8.625	1/2	3	1-1/2	4	2	1/2 NC	3/4	29/32	7/16	58
381	2	4	10.062	1/2	3-5/8	1-13/16	4-5/8	2-5/16	1/2 NC	15/16	1	0	77
451	2-5/16	4-5/8	11.625	1/2	3-11/16	1-27/32	4-3/4	2-3/8	5/8 NC	7/8	1-1/8	0	102
521	2-17/32	5-3/8	13.167	1/2	4-1/2	2-1/4	5-11/16	2-27/32	5/8 NC	1	1-1/4	0	128
601 & 601F	3-3/8	6-5/8	15.875	SEE BELOW					7/8 NC	1-7/8	1-7/8	SEE BELOW	288
701 & 701F	3-7/8	7-19/32	18.50	SEE BELOW					1 NC	2	2		428
801 & 801F	4-1/2	8-7/8	21.250	SEE BELOW					1 NC	2	2		635

Fan & Oil Plug Location Detail for Models 601 thru 801F



MODEL	A	FF	GG	HH	II	JJ	OA	OB	OC	OD	OO
601 & 601F	7-9/32	3/4	7-1/2	3-3/4	9-5/8	4-13/16	4	2	1	1-1/8	9/16
701 & 701F	8-3/8	3/4	8-1/4	4-1/8	9-7/8	4-15/16	4-3/4	2-3/8	1-3/16	1-5/16	9/16
801 & 801F	10	3/4	9-1/2	5-1/8	9-3/4	4-7/8	6	3	1-5/16	1-1/2	0

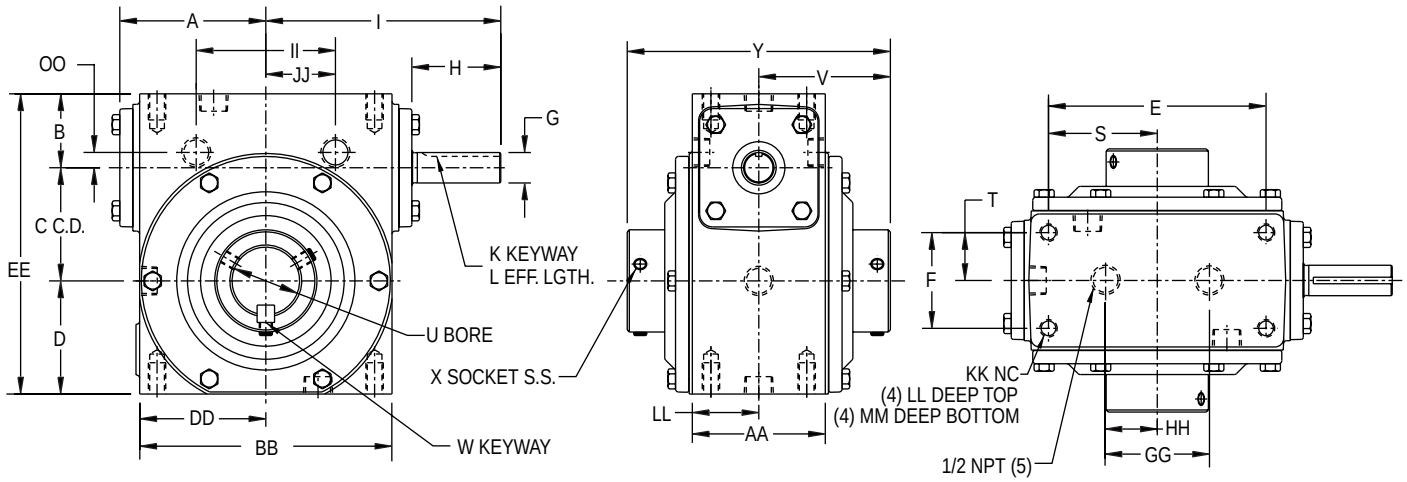
MODEL	FA	FB	FC
601F	10-1/16	11-1/2	5-7/8
701F	11-1/2	13-1/4	6-3/8
801F	13-3/32	14-1/2	7

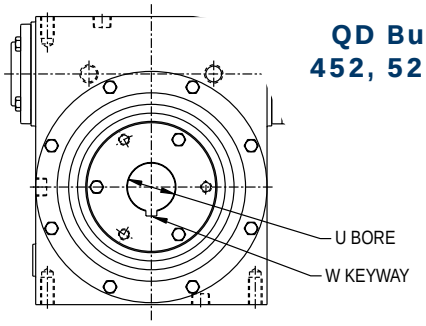
NOTE: “F” in model numbers 601F, 701F and 801F indicates “fan”

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

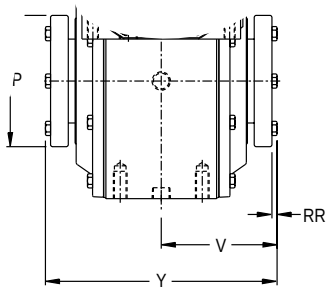
FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 182, 212, 262, 322, 382, 452, 522, 602(F) & 702(F)





QD Bushing Detail for Models 452, 522, 602, 602F, 702 & 702F

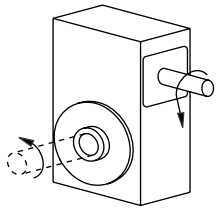


FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

SHAFT MOUNTED UNITS REQUIRE TORQUE ARMS. TORQUE ARM KITS ARE AVAILABLE, SEE PAGE B-97.

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 182, 212, 262, 322, 382, 452, 522, 602(F) & 702(F)

MODEL	A	B	C	D	E	F	G	H	I	K	L	S	T	V	Y
182	2-15/32	1.374	1.751	1.875	3-1/8	1-5/8	.500/.499	1-27/32	4	1/8 X 1/16	1-13/32	1-9/16	13/16	2-13/32	4-13/16
212	2-29/32	1.499	2.064	2.437	4	2	.625/.624	1-29/32	4-7/16	3/16 X 3/32	1-3/8	2	1	2-15/16	5-7/8
262	3-13/32	1.874	2.626	2.938	4-7/8	2-11/16	.625/.624	2-23/32	5-5/8	3/16 X 3/32	2-3/16	2-7/16	1-11/32	3-1/8	6-1/4
322	4-3/16	2.124	3.251	3.250	6-1/4	2-3/4	.875/.874	2-9/16	6-3/4	3/16 X 3/32	2	3-1/8	1-3/8	3-25/32	7-9/16
382	4-11/16	2.374	3.751	3.937	6-7/8	3	1.000/.999	2-9/16	7-1/8	1/4 X 1/8	1-29/32	3-7/16	1-1/2	3-25/32	7-9/16
452	5-11/16	2.499	4.501	4.625	8-1/8	3-1/4	1.125/1.124	3-7/32	8-7/16	1/4 X 1/8	2-1/2	4-1/16	1-5/8	5	10
522	6-13/32	2.624	5.168	5.375	9-1/2	3-3/4	1.250/1.249	3-9/32	9-1/4	1/4 X 1/8	2-5/8	4-3/4	1-7/8	5-9/16	11-1/8
602 & 602F	SEE BELOW	3.250	6.000	6.625	11	4-7/8	1.500/1.499	3-15/32	10-3/4	3/8 X 3/16	3	5-1/2	2-7/16	7-3/16	14-3/8
702 & 702F	SEE BELOW	3.875	7.000	7.625	12-1/2	5-1/2	1.750/1.749	3-5/8	12	3/8 X 3/16	3-1/8	6-1/4	2-3/4	8-1/8	16-1/4

MODEL	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	OO	Wt. Lbs.
182	2-3/8	3-15/16	1-3/16	2	5.000	1/8	1-1/2	3/4	1-1/2	3/4	1/4 NC	13/32	1/2	9/32	14
212	2-15/16	4-7/8	1-15/32	2-7/16	6.000	1/4	2-1/4	1-1/8	2-7/8	1-7/16	3/8 NC	1/2	11/16	3/8	21
262	3-7/16	5-5/8	1-23/32	2-13/16	7.438	1/4	2-1/2	1-1/4	2-1/2	1-1/4	3/8 NC	9/16	11/16	5/16	31
322	3-13/16	7-3/8	1-29/32	3-11/16	8.625	1/2	3	1-1/2	4	2	1/2 NC	3/4	29/32	7/16	61
382	4	8	2	4	10.062	1/2	3-5/8	1-13/16	4-5/8	2-5/16	1/2 NC	15/16	1	0	81
452	4-5/8	9-1/4	2-5/16	5-5/8	11.625	1/2	3-11/16	1-27/32	4-3/4	2-3/8	5/8 NC	7/8	1-1/8	0	107
522	5-1/16	10-3/4	2-17/32	5-3/8	13.167	1/2	4-1/2	2-1/4	5-11/16	2-27/32	5/8 NC	1	1-1/4	0	135
602 & 602F	6-3/4	13-1/4	3-3/8	3-11/16	15.875	SEE BELOW					7/8 NC	1-7/8	1-7/8	SEE	294
702 & 702F	7-3/4	15-3/16	3-7/8	7-19/32	18.50	SEE BELOW					1 NC	2	2	BELOW	438

Stock Bores

MODEL	U	W	Key Furnished	X
182	15/16	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
	1 (Max.)	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
212	15/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG.
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4 (Max.)	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
262	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-7/16 (Max)	3/8 X 1/8	3/8 X 5/16	1/4 NC X 1/4 LG 5/16 NC X 5/16 LG
322 & 382	1-7/16	3/8 X 3/16	3/8 Sq.	3/8 NC X 5/8 LG
	1-15/16	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2-3/16 (Max.)	1/2 X 1/8	1/2 Sq.	3/8 NC X 3/8 LG

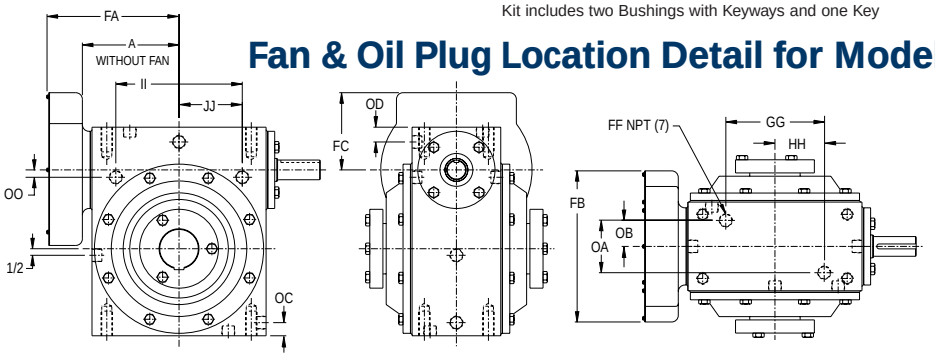
BORE TOLERANCE NOMINAL + .002

QD Bushing Bores

MODEL	U	W	X	PP	RR	KEY	TYPE	KIT*
452	1-15/16	1/2 X 1/4	-	4-5/8	3/8	1/2 Sq.	SF	0229-02683
	2		-					0229-02684
	2-3/16		-					0229-02685
	2-7/16	5/8 X 3/16	-			5/8 X 1/2		0229-02686
	2-15/16	3/4 X 1/32	-			3/4 X 13/32		0229-02687
522 & 602	2-3/16	1/2 X 1/4	-	6	7/16	1/2 Sq.	E	0229-02688
	2-7/16	5/8 X 3/16	-			5/8 Sq.		0229-02689
	2-15/16	3/4 X 1/8	-			3/4 X 1/2		0229-02690
	3		-					0229-02691
	3-3/16		-					0229-02692
	3-7/16	7/8 X 1/16	-			7/8 X 1/2		0229-02693
702	2-7/16	5/8 X 5/16	-	6-5/8	17/32	5/8 Sq.	F	0229-02905
	2-15/16	3/4 X 3/8	-			3/4 Sq.		0229-02906
	3		-					0229-02907
	3-3/16		-					0229-02908
	3-7/16	7/8 X 3/16	-			7/8 X 5/8		0229-02909
	3-15/16	1 X 1/8	-			1 X 5/8		0229-02910

*Order by QD Bushing Kit Number. Bushing Kits are not included in reducer price.
Kit includes two Bushings with Keyways and one Key

Fan & Oil Plug Location Detail for Models 602 & 602F, 702 & 702F



MODEL	A	FF	GG	HH	II	JJ	OA	OB	OC	OD	OO
602 & 602F	7-9/32	3/4	7-1/2	3-3/4	9-5/8	4-13/16	4	2	1	1-1/8	9/16
702 & 702F	8-3/8	3/4	8-1/4	4-1/8	9-7/8	4-15/16	4-3/4	2-3/8	1-3/16	1-5/16	9/16

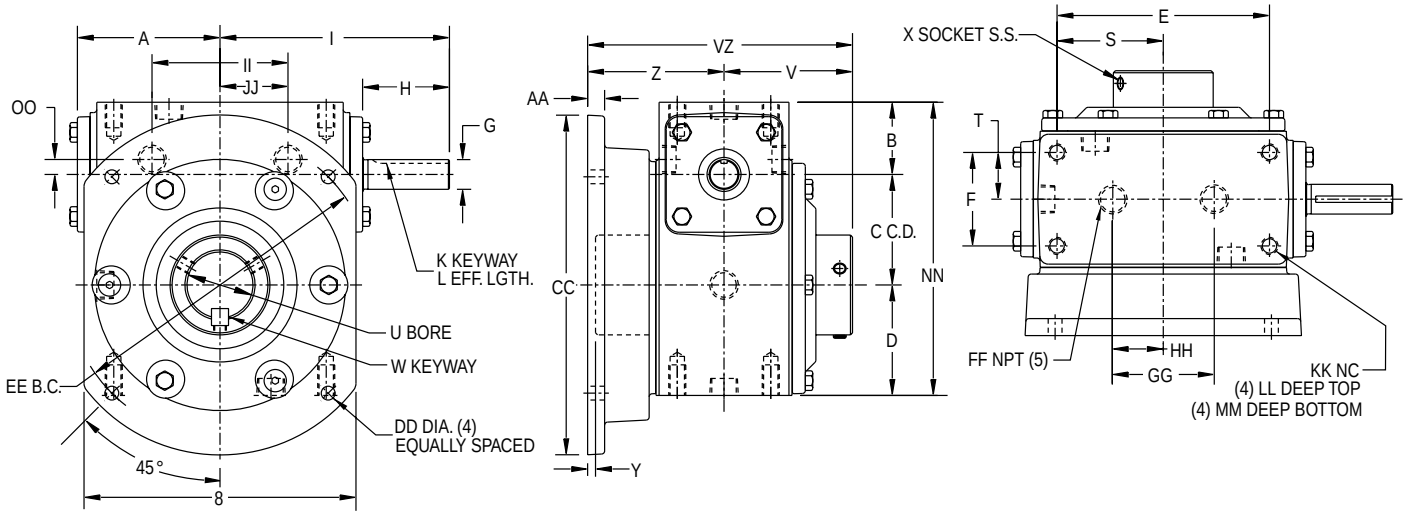
MODEL	FA	FB	FC
602F	10-1/16	11-1/2	5-7/8
702F	11-1/2	13-1/4	6-3/8

NOTE: "F" in model numbers 602F and 702F indicates "fan"

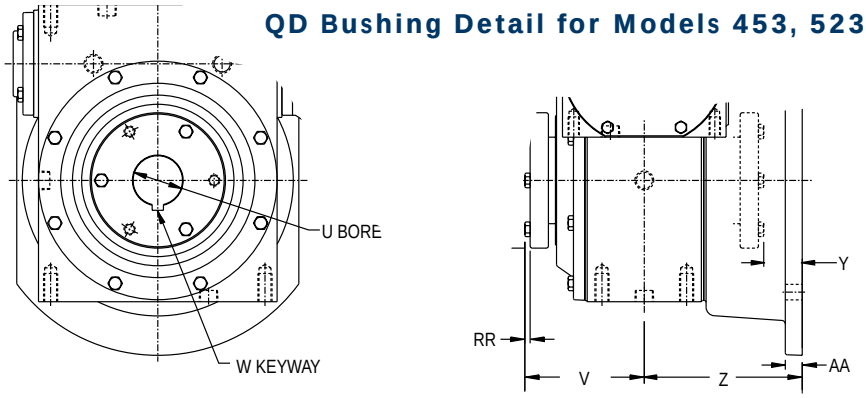
VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 183, 213, 263, 323, 383, 453, 523, & 603(F)



QD Bushing Detail for Models 453, 523, & 603(F)

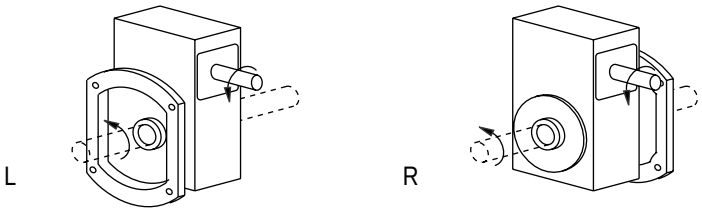


FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

THESE UNITS CAN BE FURNISHED WITH SOLID OUTPUT SHAFT ON SPECIAL ORDER

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 183, 213, 263, 323, 383, 453, 523, & 603(F)

MODEL	A	B	C	D	E	F	G	H	I	K	L	S	T	V	Y	Z
183	2-15/32	1.374	1.751	1.875	3-1/8	1-5/8	.500/.499	1-27/32	4	1/8 X 1/16	1-13/32	1-9/16	13/16	2-13/32	29/32	3-5/16
213	2-29/32	1.499	2.064	2.437	4	2	.625/.624	1-29/32	4-7/16	3/16 X 3/32	1-3/8	2	1	2-15/16	11/16	3-5/8
263	3-13/32	1.874	2.626	2.938	4-7/8	2-11/16	.625/.624	2-23/32	5-5/8	3/16 X 3/32	2-3/16	2-7/16	1-11/32	3-1/8	1/2	3-5/8
323	4-3/16	2.124	3.251	3.250	6-1/4	2-3/4	.875/.874	2-9/16	6-3/4	3/16 X 3/32	2	3-1/8	1-3/8	3-25/32	7/32	4
383	4-11/16	2.374	3.751	3.937	6-7/8	3	1.000/.999	2-9/16	7-1/8	1/4 X 1/8	1-29/32	3-7/16	1-1/2	3-25/32	23/32	4-1/2
453	5-11/16	2.499	4.501	4.625	8-1/8	3-1/4	1.125/1.124	3-7/32	8-7/16	1/4 X 1/8	2-1/2	4-1/16	1-5/8	5	3/4	5-3/4
523	6-13/32	2.624	5.168	5.375	9-1/2	3-3/4	1.250/1.249	3-9/32	9-1/4	1/4 X 1/8	2-5/8	4-3/4	1-7/8	5-9/16	1-7/16	7
603 & 603F	SEE BELOW	3.250	6.000	6.625	11	4-7/8	1.500/1.499	3-15/32	10-3/4	3/8 X 3/16	3	5-1/2	2-7/16	7-3/16	13/16	8

MODEL	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO	VZ	Wt. Lbs.
183	19/32	4-29/32	6-25/32	11/32	5.875	1/8	1-1/2	3/4	1-1/2	3/4	1/4 NC	13/32	1/2	5.000	9/32	5-23/32	18
213	7/16	6-1/4	7-7/8	13/32	7	1/4	2-1/4	1-1/8	2-7/8	1-7/16	3/8 NC	1/2	11/16	6.000	3/8	6-9/16	27
263	7/16	7-3/4	8-7/8	13/32	8	1/4	2-1/2	1-1/4	2-1/2	1-1/4	3/8 NC	9/16	11/16	7.438	5/16	6-3/4	39
323	1/2	8	10	13/32	9	1/2	3	1-1/2	4	2	1/2 NC	3/4	29/32	8.625	7/16	7-25/32	70
383	1/2	9	11	9/16	10	1/2	3-5/8	1-13/16	4-5/8	2-5/16	1/2 NC	15/16	1	10.062	0	8-9/32	89
453	5/8	12-1/4	14-1/4	11/16	13	1/2	3-11/16	1-27/32	4-3/4	2-3/8	5/8 NC	7/8	1-1/8	11.625	0	10-3/4	115
523	3/4	12-1/2	15-1/2	11/16	14	1/2	4-1/2	2-1/4	5-11/16	2-27/32	5/8 NC	1	1-1/4	13.167	0	12-9/16	144
603 & 603F	7/8	15	18	13/16	16	SEE BELOW					7/8 NC	1-7/8	1-7/8	15.875	9/16	15-3/16	324

Stock Bores

MODEL	U	W	Key Furnished	X
183	15/16	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
	1 (Max.)	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
213	15/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4 (Max.)	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
263	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-7/16 (Max)	3/8 X 1/8	3/8 X 5/16	1/4 NC X 1/4 LG 5/16 NC X 5/16 LG
323 & 383	1-7/16	3/8 X 3/16	3/8 Sq.	3/8 NC X 5/8 LG
	1-15/16	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2-3/16 (Max.)	1/2 X 1/8	1/2 Sq.	3/8 NC X 3/8 LG

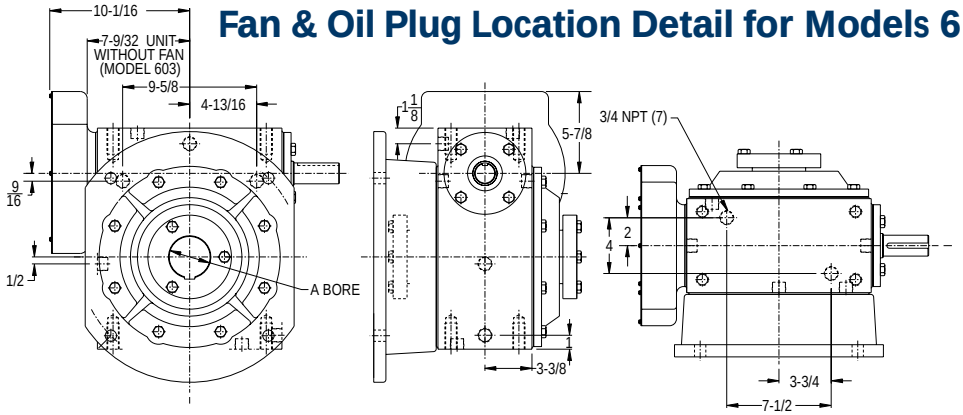
QD Bushing Bores

MODEL	U	W	X	PP	RR	KEY	TYPE	KIT*
453	1-15/16	1/2 X 1/4	-	4-5/8	3/8	1/2 Sq.	SF	0229-02683
	2		-					0229-02684
	2-3/16		-					0229-02685
	2-7/16	5/8 X 3/16	-			5/8 X 1/2		0229-02686
	2-15/16	3/4 X 1/32	-			3/4 X 13/32		0229-02687
523 & 603	2-3/16	1/2 X 1/4	-	6	7/16	1/2 Sq.	E	0229-02688
	2-7/16	5/8 X 3/16	-			5/8 Sq.		0229-02689
	2-15/16	3/4 X 1/8	-			3/4 X 1/2		0229-02690
	3		-					0229-02691
	3-3/16		-					0229-02692
	3-7/16	7/8 X 1/16	-			7/8 X 1/2		0229-02693

*Order by QD Bushing Kit Number. Bushing Kits are not included in reducer price.
Kit includes two Bushings with Keyways and one Key

BORE TOLERANCE NOMINAL + .002

Fan & Oil Plug Location Detail for Models 603 & 603F



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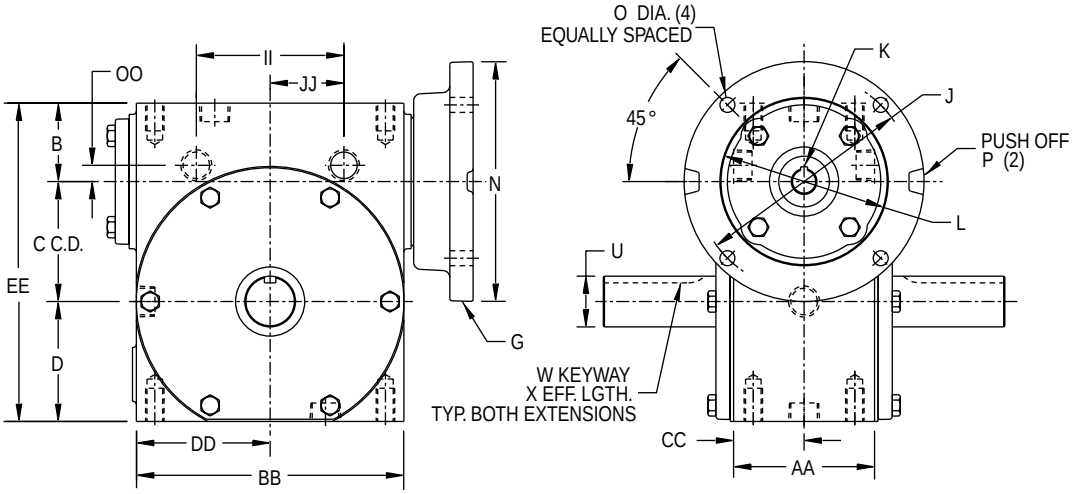
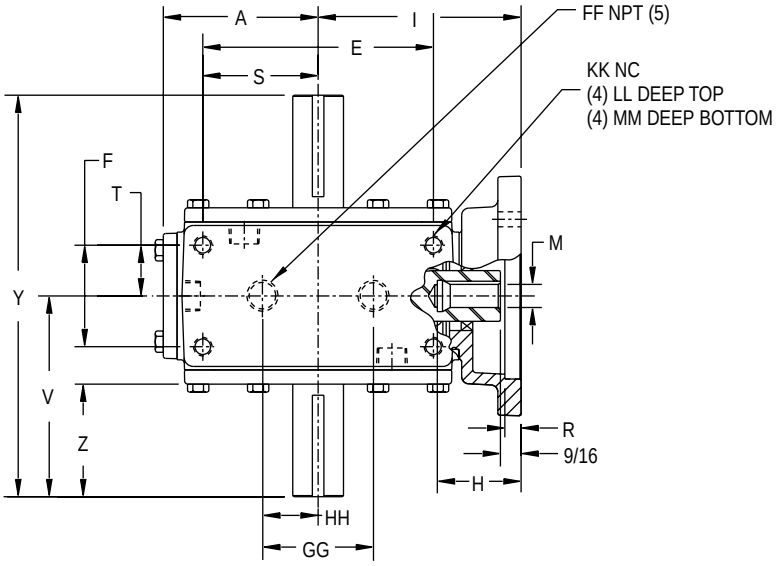
FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 134, 184, 214, 264, 324, 384, 454 & 524



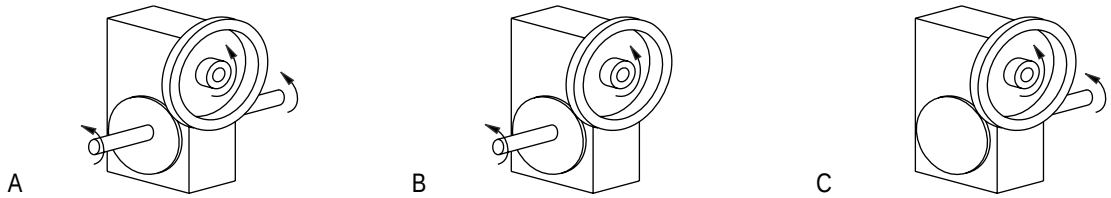


FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

SPECIAL, 48C, METRIC AND SAE HYDRAULIC INPUT FLANGES AVAILABLE. CONSULT FACTORY FOR COMPLETE SPECIFICATIONS.

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 134, 184, 214, 264, 324, 384, 454 & 524

MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R
134	2	1.186	1.334	1.562	2-1/4	1-5/8	56C	2-9/32	3-3/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64
184	2-15/32	1.374	1.751	1.875	3-1/8	1-5/8	56C	2-9/32	3-3/4	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64
214	2-29/32	1.499	2.064	2.437	4	2	56C	2-1/4	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64
							143TC	2-3/8					.8755/.8770				
264	3-13/32	1.874	2.626	2.938	4-7/8	2-11/16	56C	2-1/4	4-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64
							143TC	2-3/8					.8755/.8770				
							182TC	3-3/16	5	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
324	4-3/16	2.124	3.251	3.250	6-1/4	2-3/4	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16
							143TC	2-3/8					.8755/.8770				
							182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
384	4-11/16	2.374	3.751	3.937	6-7/8	3	56C	2-1/4	5-7/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	13/64
							143TC	2-3/8	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	5-1/2	13/32	SLOTS	13/64
							182TC	3-3/16	6-5/8	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
454	5-11/16	2.499	4.501	4.625	8-1/8	3-1/4	56C	2-1/4	6-3/4	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16
							143TC	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16
							182TC	3-3/16	6-3/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
							213TC	3-1/2			5/16 X 5/32		1.3755/1.3770				
524*	6-13/32	2.624	5.168	5.375	9-1/2	3-3/4	182TC	3-3/16	7-1/2	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
							213TC	3-1/2			5/16 X 5/32		1.3755/1.3770				

*56C & 143TC FLANGES AVALABLE AS MODIFIED STANDARDS

MODEL	S	T	U	V	W	X	Y	Z	AA	BB
134	1-1/8	13/16	.625/.624	3-1/4	3/16 X 3/32	1-5/16	6-1/2	1-25/32	2-1/4	3-5/32
184	1-9/16	13/16	.750/.749	3-1/2	3/16 X 3/32	1-15/32	7	1-15/16	2-3/8	3-15/16
214	2	1	.875/.874	4-1/4	3/16 X 3/32	1-13/16	8-1/2	2-3/8	2-15/16	4-7/8
264	2-7/16	1-11/32	1.250/1.249	4-1/2	1/4 X 1/8	1-25/32	9	2-13/32	3-7/16	5-5/8
324	3-1/8	1-3/8	1.375/1.374	5-7/16	5/16 X 5/32	2-5/16	10-7/8	3-1/16	3-13/16	7-3/8
384	3-7/16	1-1/2	1.500/1.499	6-11/16	3/8 X 3/16	3-5/32	13-3/8	4	4	8
454**	4-1/16	1-5/8	1.625/1.624	7-1/4	3/8 X 3/16	3-9/32	14-1/2	4-3/16	4-5/8	9-1/4
524***	4-3/4	1-7/8	1.750/1.749	7-13/16	3/8 X 3/16	3-1/2	15-5/8	4-15/32	5-1/16	10-3/4

**ALSO AVAILABLE WITH 1.750/1.749 (U) DIAMETER OUTPUT SHAFT. CONSULT FACTORY
***ALSO AVAILABLE WITH 2.000/1.999 DIAMETER OUTPUT SHAFT. CONSULT FACTORY

MODEL	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	OO	Wt . Lbs.
134	1-1/8	1-19/32	4.082	1/8	7/8	7/16	7/8	7/16	1/4 NC	13/32	15/32	9/32	13
184	1-3/16	2	5.000	1/8	1-1/2	3/4	1-1/2	3/4	1/4 NC	13/32	1/2	9/32	16
214	1-15/32	2-7/16	6.000	1/4	2-1/4	1-1/8	2-7/8	1-7/16	3/8 NC	1/2	11/16	3/8	23
264	1-23/32	2-13/16	7.438	1/4	2-1/2	1-1/4	2-1/2	1-1/4	3/8 NC	9/16	11/16	5/16	33
324	1-29/32	3-11/16	8.625	1/2	3	1-1/2	4	2	1/2 NC	3/4	29/32	7/16	64
384	2	4	10.062	1/2	3-5/8	1-13/16	4-5/8	2-5/16	1/2 NC	15/16	1	0	84
454	2-5/16	5-5/8	11.625	1/2	3-11/16	1-27/32	4-3/4	2-3/8	5/8 NC	7/8	1-1/8	0	112
524	2-17/32	5-3/8	13.167	1/2	4-1/2	2-1/4	5-11/16	2-27/32	5/8 NC	1	1-1/4	0	138

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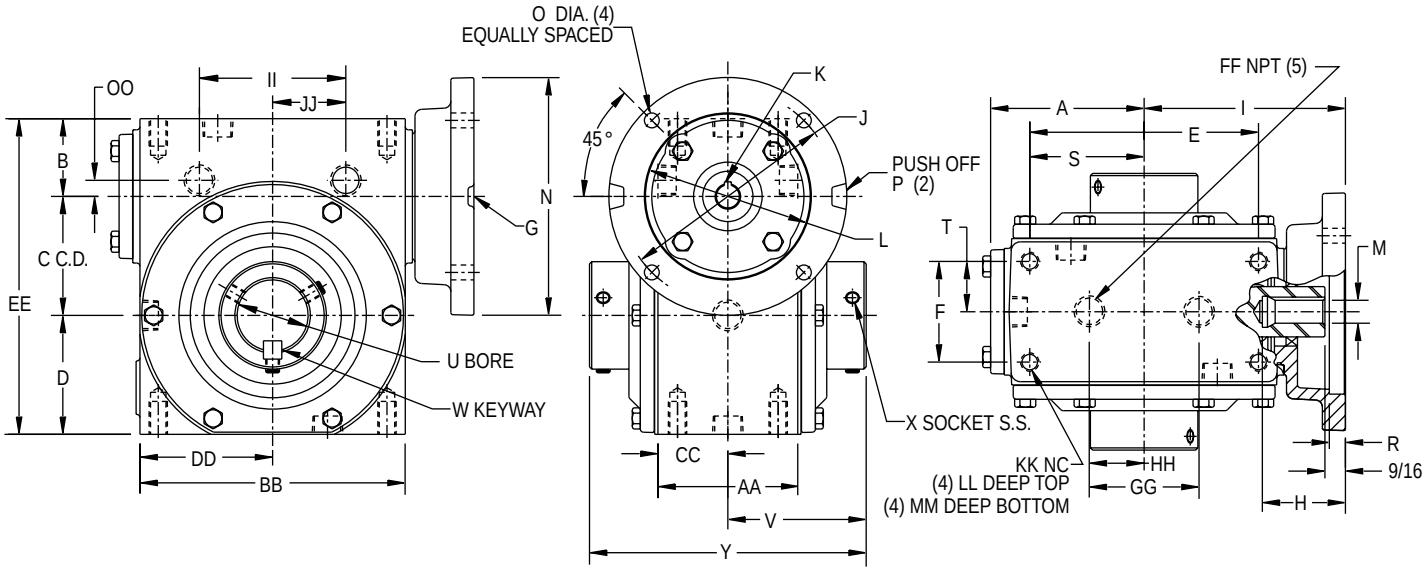
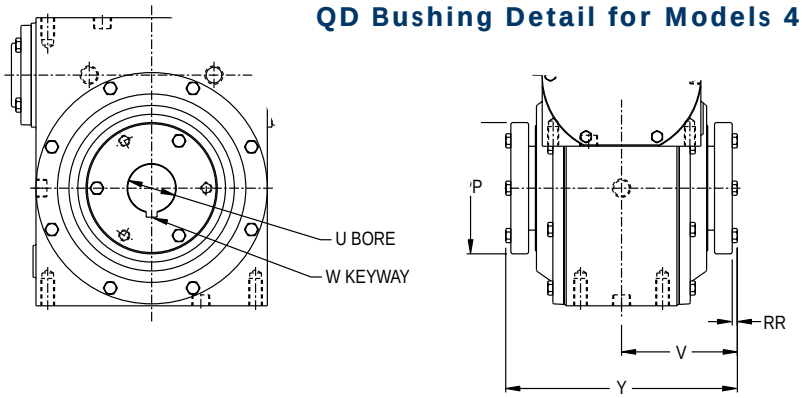
Models 185, 215, 265, 325, 385, 455 & 525



QD Bushing Detail for Models 455 & 525



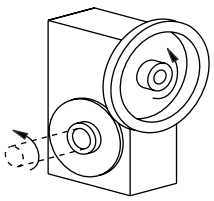
FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

SPECIAL, 48C, METRIC AND SAE HYDRAULIC INPUT FLANGES AVAILABLE. CONSULT FACTORY FOR COMPLETE SPECIFICATIONS.

THESE UNITS CAN BE FURNISHED WITH SOLID OUTPUT SHAFT ON SPECIAL ORDER

SHAFT MOUNTED UNITS REQUIRE TORQUE ARMS. TORQUE ARM KITS ARE AVAILABLE, SEE PAGE B-97.

Standard Styles Available



DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.

CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 185, 215, 265, 325, 385, 455 & 525

MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R
185	2-15/32	1.374	1.751	1.875	3-1/8	1-5/8	56C	2-9/32	3-3/4	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64
215	2-29/32	1.499	2.064	2.437	4	2	56C	2-1/4	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64
							143TC	2-3/8					.8755/.8770				
265	3-13/32	1.874	2.626	2.938	4-7/8	2-11/16	56C	2-1/4	4-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64
							143TC	2-3/8					.8755/.8770				
							182TC	3-3/16	5	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
325	4-3/16	2.124	3.251	3.250	6-1/4	2-3/4	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16
							143TC	2-3/8					.8755/.8770				
							182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
385	4-11/16	2.374	3.751	3.937	6-7/8	3	56C	2-1/4	5-7/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	13/64
							143TC	2-3/8	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	5-1/2	13/32	SLOTS	13/64
							182TC	3-3/16	6-5/8	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
455	5-11/16	2.499	4.501	4.625	8-1/8	3-1/4	56C	2-1/4	6-3/4	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16
							143TC	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16
							182TC	3-3/16	6-3/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
							213TC	3-1/2			5/16 X 5/32		1.3755/1.3770				
525*	6-13/32	2.624	5.168	5.375	9-1/2	3-3/4	182TC	3-3/16	7-1/2	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
							213TC	3-1/2			5/16 X 5/32		1.3755/1.3770				

MODEL	S	T	V	Y	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	OO	Wt. Lbs.
185	1-9/16	13/16	2-13/32	4-13/16	2-3/8	3-15/16	1-3/16	2	5.000	1/8	1-1/2	3/4	1-1/2	3/4	1/4 NC	13/32	1/2	9/32	20
215	2	1	2-15/16	5-7/8	2-15/16	4-7/8	1-15/32	2-7/16	6.000	1/4	2-1/4	1-1/8	2-7/8	1-7/16	3/8 NC	1/2	11/16	3/8	25
265	2-7/16	1-11/32	3-1/8	6-1/4	3-7/16	5-5/8	1-23/32	2-13/16	7.438	1/4	2-1/2	1-1/4	2-1/2	1-1/4	3/8 NC	9/16	11/16	5/16	36
325	3-1/8	1-3/8	3-25/32	7-9/16	3-13/16	7-3/8	1-29/32	3-11/16	8.625	1/2	3	1-1/2	4	2	1/2 NC	3/4	29/32	7/16	67
385	3-7/16	1-1/2	3-25/32	7-9/16	4	8	2	4	10.062	1/2	3-5/8	1-13/16	4-5/8	2-5/16	1/2 NC	15/16	1	0	88
455	4-1/16	1-5/8	5	10	4-5/8	9-1/4	2-5/16	5-5/8	11.625	1/2	3-11/16	1-27/32	4-3/4	2-3/8	5/8 NC	7/8	1-1/8	0	117
525	4-3/4	1-7/8	5-9/16	11-1/8	5-1/16	10-3/4	2-17/32	5-3/8	13.167	1/2	4-1/2	2-1/4	5-11/16	2-27/32	5/8 NC	1	1-1/4	0	145

*56C & 143TC FLANGES AVALABLE AS MODIFIED STANDARDS

Stock Bores

MODEL	U	W	Key Furnished	X
185	15/16	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
	1 (Max.)	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
215	15/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4 (Max.)	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
265	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-7/16 (Max)	3/8 X 1/8	3/8 X 5/16	1/4 NC X 1/4 LG
				5/16 NC X 5/16 LG
325 & 385	1-7/16	3/8 X 3/16	3/8 Sq.	3/8 NC X 5/8 LG
	1-15/16	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2-3/16 (Max.)	1/2 X 1/8	1/2 Sq.	3/8 NC X 3/8 LG

BORE TOLERANCE NOMINAL + .002

QD Bushing Bores

MODEL	U	W	X	PP	RR	KEY	TYPE	KIT*
455	1-15/16	1/2 X 1/4	-	4-5/8	3/8	1/2 Sq.	SF	0229-02683
	2		-					0229-02684
	2-3/16		-					0229-02685
	2-7/16	5/8 X 3/16	-			5/8 X 1/2		0229-02686
	2-15/16	3/4 X 1/32	-			3/4 X 13/32		0229-02687
525	2-3/16	1/2 X 1/4	-	6	7/16	1/2 Sq.	E	0229-02688
	2-7/16	5/8 X 3/16	-			5/8 Sq.		0229-02689
	2-15/16	3/4 X 1/8	-			3/4 X 1/2		0229-02690
	3		-					0229-02691
	3-3/16		-					0229-02692
	3-7/16	7/8 X 1/16	-			7/8 X 1/2		0229-02693

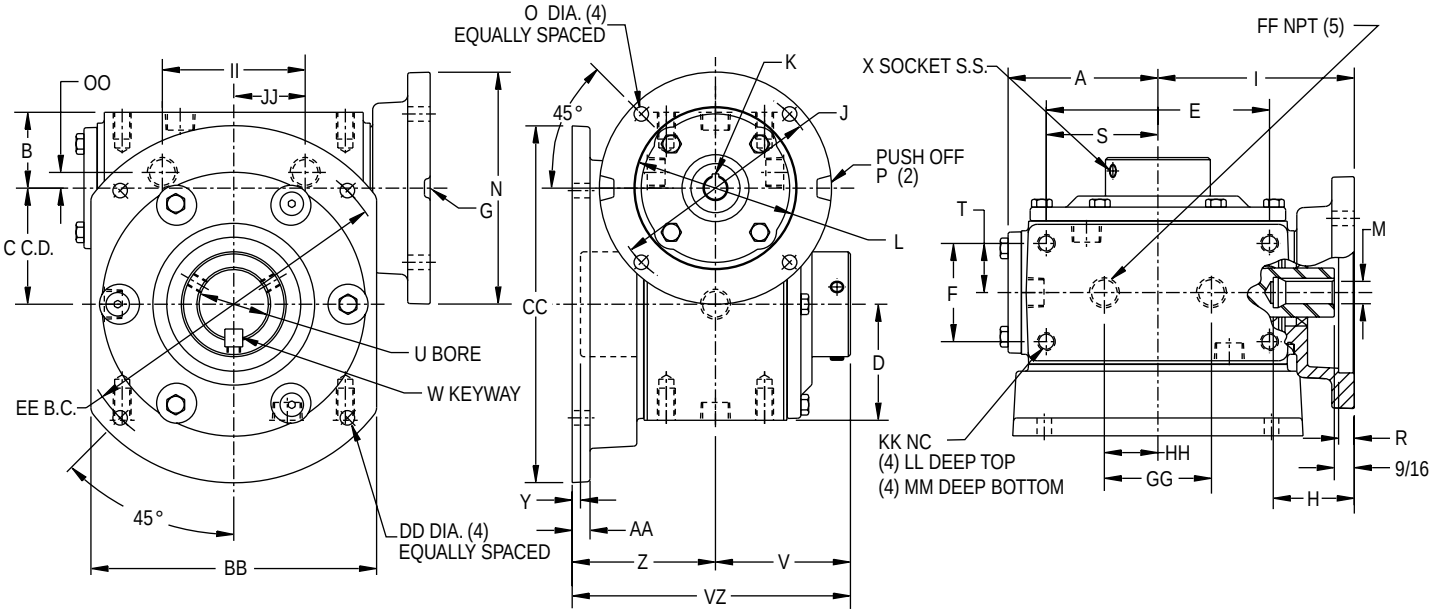
*Order by QD Bushing Kit Number. Bushing Kits are not included in reducer price.

Kit includes two Bushings with Keyways and one Key

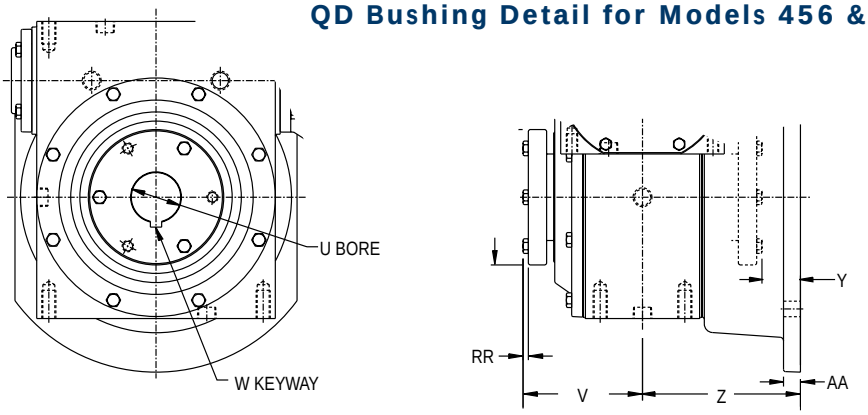
VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 186, 216, 266, 326, 386, 456 & 526



QD Bushing Detail for Models 456 & 526



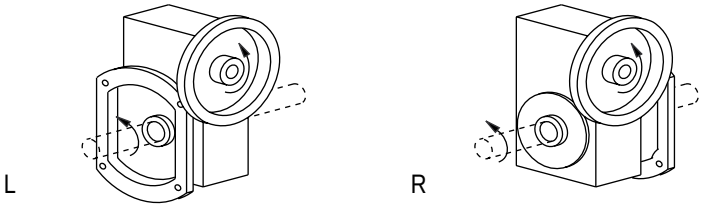
FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

METRIC AND SAE HYDRAULIC INPUT FLANGES AVAILABLE. CONSULT FACTORY FOR COMPLETE SPECIFICATIONS.

THESE UNITS CAN BE FURNISHED WITH SOLID OUTPUT SHAFT ON SPECIAL ORDER

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 186, 216, 266, 326, 386, 456 & 526

MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S
186	2-15/32	1.374	1.751	1.875	3-1/8	1-5/8	56C	2-9/32	3-3/4	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-9/16
216	2-29/32	1.499	2.064	2.437	4	2	56C	2-1/4	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	2
							143TC	2-3/8					.8755/.8770					
266	3-13/32	1.874	2.626	2.938	4-7/8	2-11/16	56C	2-1/4	4-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	2-7/16
							143TC	2-3/8					.8755/.8770					
							182TC	3-3/16	5	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16	
326	4-3/16	2.124	3.251	3.250	6-1/4	2-3/4	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	3-1/8
							143TC	2-3/8					.8755/.8770					
							182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16	
386	4-11/16	2.374	3.751	3.937	6-7/8	3	56C	2-1/4	5-7/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	13/64	3-7/16
							143TC	2-3/8	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	5-1/2	13/32	SLOTS	13/64	
							182TC	3-3/16	6-5/8	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16	
456	5-11/16	2.499	4.501	4.625	8-1/8	3-1/4	56C	2-1/4	6-3/4	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	4-1/16
							143TC	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16	
							182TC	3-3/16	6-3/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16	
							213TC	3-1/2			5/16 X 5/32		1.3755/1.3770					
526*	6-13/32	2.624	5.168	5.375	9-1/2	3-3/4	182TC	3-3/16	7-1/2	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16	4-3/4
							213TC	3-1/2			5/16 X 5/32		1.3755/1.3770					

MODEL	T	V	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	OO	VZ	Wt.Lbs.
186	13/16	2-13/32	29/32	3-5/16	19/32	4-29/32	6-25/32	11/32	5.875	1/8	1-1/2	3/4	1-1/2	3/4	1/4 NC	13/32	1/2	9/32	5-23/32	24
216	1	2-15/16	11/16	3-5/8	7/16	6-1/4	7-7/8	13/32	7	1/4	2-1/4	1-1/8	2-7/8	1-7/16	3/8 NC	1/2	11/16	3/8	6-9/16	31
266(56-143TC)	1-11/32	3-1/8	1/2	3-5/8	7/16	7-3/4	8-7/8	13/32	8	1/4	2-1/2	1-1/4	2-1/2	1-1/4	3/8 NC	9/16	11/16	5/16	6-3/4	44
266(182TC)			1-1/2	4-5/8	9/16														7-3/4	
326	1-3/8	3-25/32	7/32	4	1/2	8	10	13/32	9	1/2	3	1-1/2	4	2	1/2 NC	3/4	29/32	7/16	7-25/32	76
386	1-1/2	3-25/32	23/32	4-1/2	1/2	9	11	9/16	10	1/2	3-5/8	1-13/16	4-5/8	2-5/16	1/2 NC	15/16	1	0	8-9/32	96
456	1-5/8	5	3/4	5-3/4	5/8	12-1/4	14-1/4	11/16	13	1/2	3-11/16	1-27/32	4-3/4	2-3/8	5/8 NC	7/8	1-1/8	0	10-3/4	125
526*	1-7/8	5-9/16	1-7/16	7	3/4	12-1/2	15-1/2	11/16	14	1/2	4-1/2	2-1/4	5-11/16	2-27/32	5/8 NC	1	1-1/4	0	12-9/16	154

*56C & 143TC FLANGES AVALABLE AS MODIFIED STANDARDS

Stock Bores

MODEL	U	W	Key Furnished	X
186	15/16	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
	1 (Max.)	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
216	15/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4 (Max.)	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
266	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-7/16 (Max)	3/8 X 1/8	3/8 X 5/16	1/4 NC X 1/4 LG
				5/16 NC X 5/16 LG
326 & 386	1-7/16	3/8 X 3/16	3/8 Sq.	3/8 NC X 5/8 LG
	1-15/16	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2-3/16 (Max.)	1/2 X 1/8	1/2 Sq.	3/8 NC X 3/8 LG

BORE TOLERANCE NOMINAL + .002

QD Bushing Bores

MODEL	U	W	X	PP	RR	KEY	TYPE	KIT*
456	1-15/16	1/2 X 1/4	-	4-5/8	3/8	1/2 Sq.	SF	0229-02683
	2		-					0229-02684
	2-3/16		-					0229-02685
	2-7/16	5/8 X 3/16	-			5/8 X 1/2		0229-02686
	2-15/16	3/4 X 1/32	-			3/4 X 13/32		0229-02687
526	2-3/16	1/2 X 1/4	-	6	7/16	1/2 Sq.	E	0229-02688
	2-7/16	5/8 X 3/16	-			5/8 Sq.		0229-02689
	2-15/16	3/4 X 1/8	-			3/4 X 1/2		0229-02690
	3		-					0229-02691
	3-3/16		-					0229-02692
	3-7/16	7/8 X 1/16	-			7/8 X 1/2		0229-02693

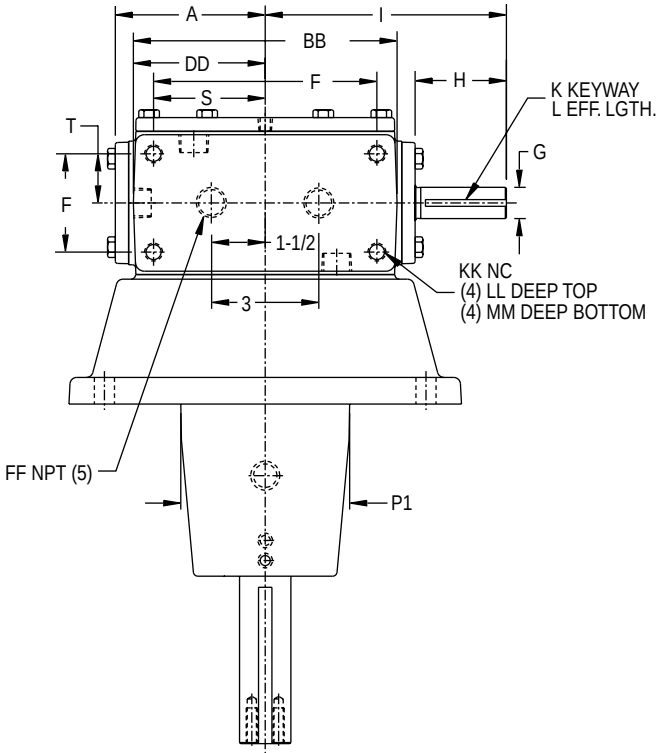
*Order by QD Bushing Kit Number. Bushing Kits are not included in reducer price.

Kit includes two Bushings with Keyways and one Key

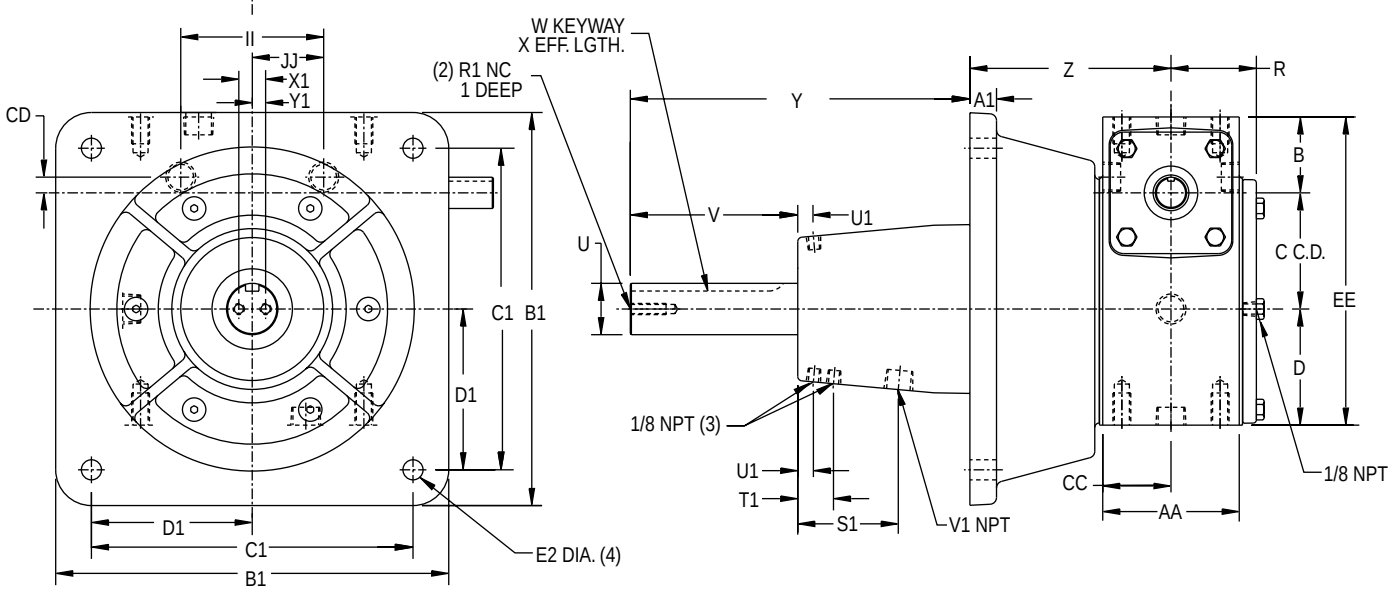
VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 327, 387, 457, 527, 607(F), 707(F) & 807(F)

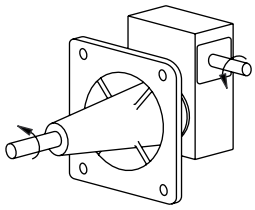


FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R



Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



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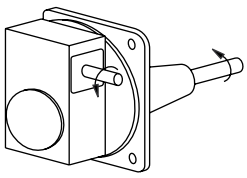


R

CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 327, 387, 457, 527, 607(F), 707(F) & 807(F)

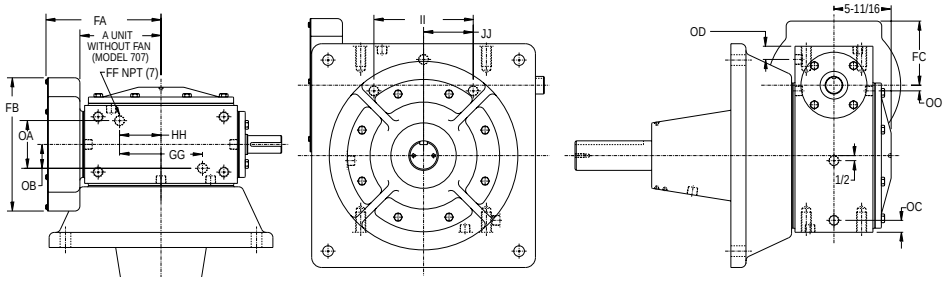
MODEL	A	B	C	D	E	F	G	H	I	K	L	R	S
327	4-3/16	2.124	3.251	3.250	6-1/4	2-3/4	.875/.874	2-9/16	6-3/4	3/16 X 3/32	2	2-3/8	3-1/8
387	4-11/16	2.374	3.751	3.937	6-7/8	3	1.000/.999	2-9/16	7-1/8	1/4 X 1/8	1-29/32	2-11/16	3-7/16
457	5-11/16	2.499	4.501	4.625	8-1/8	3-1/4	1.125/1.124	3-7/32	8-7/16	1/4 X 1/8	2-1/2	3-1/16	4-1/16
527	6-13/32	2.624	5.168	5.375	9-1/2	3-3/4	1.250/1.249	3-9/32	9-1/4	1/4 X 1/8	2-5/8	3-11/32	4-3/4
607 & 607F	SEE BELOW	3.250	6.000	6.625	11	4-7/8	1.500/1.499	3-15/32	10-3/4	3/8 X 3/16	3	5-1/8	5-1/2
707 & 707F		3.875	7.000	7.625	12-1/2	5-1/2	1.750/1.749	3-5/8	12	3/8 X 3/16	3-1/8	5-11/16	6-1/4
807 & 807F		4.500	8.000	8.750	14-3/4	6-1/2	1.875/1.874	3-7/8	13-5/8	1/2 X 1/4	3-3/8	6-1/2	7-3/8

MODEL	OUTPUT FLANGE	T	U	V	W	X	Y	Z	A1	B1	C1
327	STD	1-3/8	1.4375/1.4365	4-11/16	3/8 X 3/16	3-7/8	9-1/2	5-5/8	3/4	11	9
	LARGE	1-3/8	1.625/1.624	4-9/16	3/8 X 3/16	3-11/16	9-1/2	5-7/8	31/32	12-1/2	10-1/2
387	STD	1-1/2	1.625/1.624	4-1/2	3/8 X 3/16	3-11/16	9-1/2	5-7/8	15/16	12-1/2	10-1/2
	LARGE	1-1/2	1.6875/1.6865	5-1/2	3/8 X 3/16	4-11/16	10-1/2	6-1/32	*1-1/16	14	12
457	STD	1-5/8	1.6875/1.6865	5-1/2	3/8 X 3/16	4-11/16	10-1/2	6	*1-1/16	14	12
527	STD	1-7/8	2.1875/2.1865	5-17/32	1/2 X 1/4	4-7/8	10-1/2	6-1/4	1-7/32	16	14
607 & 607F	STD	2-7/16	2.4375/2.4365	7-5/8	5/8 X 5/16	6-13/16	15-1/2	8-1/4	1-1/4	19-1/2	17
707 & 707F	STD	2-3/4	2.9375/2.9365	7-5/8	3/4 X 3/8	6-13/16	15-1/2	10-1/4	1-1/2	22-1/4	19
807 & 807F	STD	3-1/4	3.4375/3.4355	8-5/16	7/8 X 7/16	7-5/8	16-1/8	11-1/4	1-3/4	24-1/4	21

MODEL	OUTPUT FLANGE	D1	E1	P1	R1	S1	T1	U1	V1	X1	Y1	Z1
327	STD	4-1/2	9/16	4-3/4	5/16	2-13/16	1	7/16	1/2	3/4	3/8	1
	LARGE	5-1/4	9/16	4-15/16	5/16	2-3/4	1-1/16	7/16	1/2	3/4	3/8	1
387	STD	5-1/4	9/16	4-15/16	5/16	2-3/4	1-1/16	7/16	1/2	3/4	3/8	1
	LARGE	6	11/16	5-17/32	3/8	3-1/4	1-1/4	1/2	1/2	1	1/2	1
457	STD	6	11/16	5-1/2	3/8	3-1/4	1-1/4	1/2	1/2	1	1/2	1
527	STD	7	13/16	6-5/8	3/8	3-3/16	1-3/16	7/16	1/2	1-1/2	3/4	1
607 & 607F	STD	8-1/2	15/16	8-1/2	3/8	3-5/8	1-1/4	7/16	3/4	1-1/2	3/4	1
707 & 707F	STD	9-1/2	1-1/16	9-1/32	3/8	4	1-5/16	1/2	3/4	2	1	1
807 & 807F	STD	10-1/2	1-5/16	10-7/16	5/8	4-1/16	1-5/16	1/2	3/4	2-1/8	1-1/16	1-1/2

MODEL	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	OO	Wt.Lbs.
327	3-13/16	7-3/8	1-29/32	3-11/16	8.625	1/2	3	1-1/2	4	2	1/2 NC	3/4	29/32	7/16	103
387	4	8	2	4	10.062	1/2	3-5/8	1-13/16	4-5/8	2-5/16	1/2 NC	15/16	1	0	131
457	4-5/8	9-1/4	2-5/16	5-5/8	11.625	1/2	3-11/16	1-27/32	4-3/4	2-3/8	5/8 NC	7/8	1-1/8	0	176
527	5-1/16	10-3/4	2-17/32	5-3/8	13.167	1/2	4-1/2	2-1/4	5-11/16	2-27/32	5/8 NC	1	1-1/4	0	224
607 & 607F	6-3/4	13-1/4	3-3/8	3-11/16	15.875	SEE BELOW					7/8 NC	1-7/8	1-7/8	SEE BELOW	457
707 & 707F	7-3/4	15-3/16	3-7/8	7-19/32	18.50	SEE BELOW					1 NC	2	2		632
807 & 807F	9	17-3/4	4-1/2	8-7/8	21.250	SEE BELOW					1 NC	2	2		879

Fan & Oil Plug Location Detail for Models 607 thru 807F



MODEL	A	FF	GG	HH	II	JJ	OA	OB	OC	OD	OO
607 & 607F	7-9/32	3/4	7-1/2	3-3/4	9-5/8	4-13/16	4	2	1	1-1/8	9/16
707 & 707F	8-3/8	3/4	8-1/4	4-1/8	9-7/8	4-15/16	4-3/4	2-3/8	1-3/16	1-5/16	9/16
807 & 807F	10	3/4	9-1/2	4-3/8	9-3/4	4-7/8	6	3	1-5/16	1-1/2	0

MODEL	FA	FB	FC
607F	10-1/16	11-1/2	5-7/8
707F	11-1/2	13-1/4	6-3/8
807F	13-3/32	14-1/2	7

NOTE: “F” in model numbers 607F, 707F and 807F indicates “fan”

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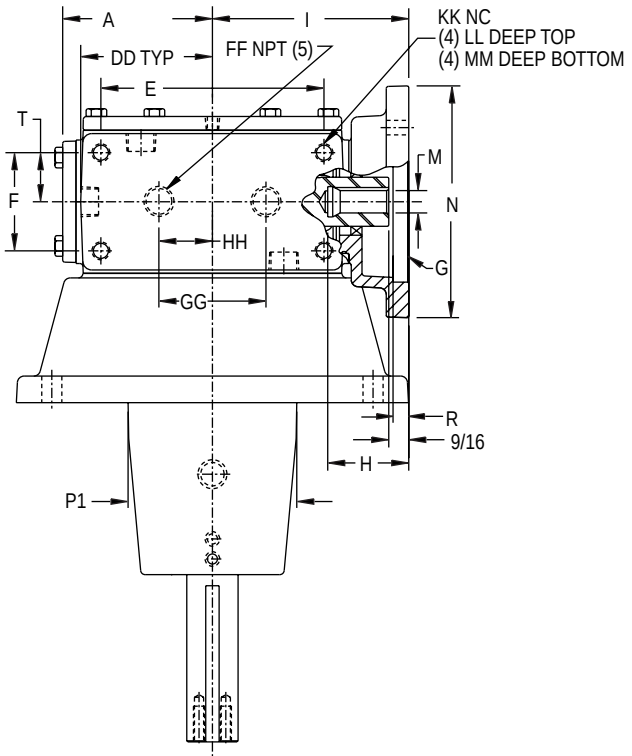
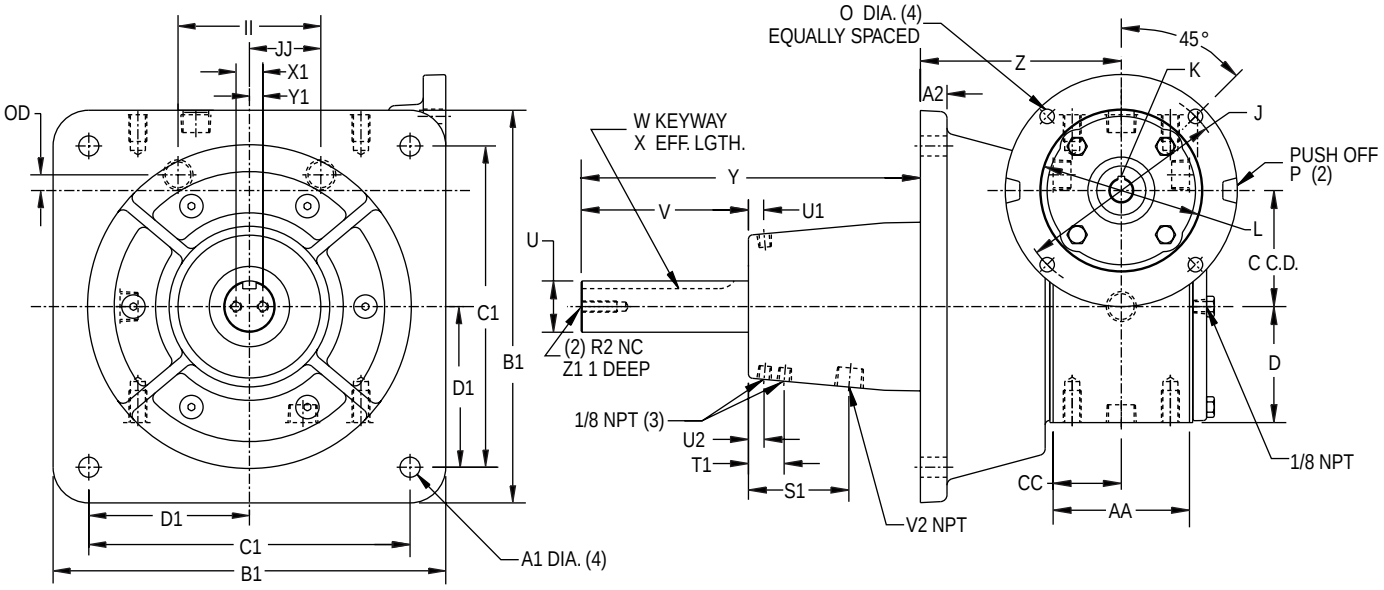
FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 328, 388, 458 & 528



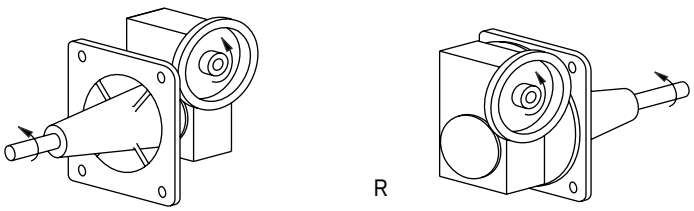
FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

SPECIAL, 48C, METRIC AND SAE HYDRAULIC INPUT FLANGES AVAILABLE. CONSULT FACTORY FOR COMPLETE SPECIFICATIONS.



Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



L R

CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

HUBCITY

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 328, 388, 458 & 528

MODEL	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R
328	4-3/16	3.251	3.250	6-1/4	2-3/4	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16
						143TC	2-3/8					.8755/.8770				
						182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
388	4-11/16	3.751	3.937	6-7/8	3	56C	2-1/4	5-7/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	13/64
						143TC	2-3/8	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	5-1/2	13/32	SLOTS	13/64
						182TC	3-3/16	6-5/8	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
458	5-11/16	4.501	4.625	8-1/8	3-1/4	56C	2-1/4	6-3/4	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16
						143TC	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16
						182TC	3-3/16	6-3/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
						213TC	3-1/2			5/16 X 5/32		1.3755/1.3770				
528*	6-13/32	5.168	5.375	9-1/2	3-3/4	182TC	3-3/16	7-1/2	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
						213TC	3-1/2			5/16 X 5/32		1.3755/1.3770				

*56C & 143TC FLANGES AVAILABLE AS MODIFIED STANDARDS

MODEL	OUTPUT FLANGE	S	T	U	V	W	X	Y	Z	A1	B1	C1
328	STD	3-1/8	1-3/8	1.4375/1.4365	4-11/16	3/8 X 3/16	3-7/8	9-1/2	5-5/8	3/4	11	9
	LARGE			1.625/1.624	4-9/16	3/8 X 3/16	3-11/16	9-1/2	5-7/8	31/32	12-1/2	10-1/2
388	STD	3-7/16	1-1/2	1.625/1.624	4-1/2	3/8 X 3/16	3-11/16	9-1/2	5-7/8	15/16	12-1/2	10-1/2
	LARGE			1.6875/1.6865	5-1/2	3/8 X 3/16	4-11/16	10-1/2	6-1/32	*1-1/16	14	12
458	STD	4-1/16	1-5/8	1.6875/1.6865	5-1/2	3/8 X 3/16	4-11/16	10-1/2	6	*1-1/16	14	12
528	STD	4-3/4	1-7/8	2.1875/2.1865	5-17/32	1/2 X 1/4	4-7/8	10-1/2	6-1/4	1-7/32	16	14

MODEL	OUTPUT FLANGE	D1	E1	P1	R1	S1	T1	U1	V1	X1	Y1	Z1
328	STD	4-1/2	9/16	4-3/4	5/16	2-13/16	1	7/16	1/2	3/4	3/8	1
	LARGE	5-1/4	9/16	4-15/16	5/16	2-3/4	1-1/16	7/16	1/2	3/4	3/8	1
388	STD	5-1/4	9/16	4-15/16	5/16	2-3/4	1-1/16	7/16	1/2	3/4	3/8	1
	LARGE	6	11/16	5-17/32	3/8	3-1/4	1-1/4	1/2	1/2	1	1/2	1
458	STD	6	11/16	5-1/2	3/8	3-1/4	1-1/4	1/2	1/2	1	1/2	1
528	STD	7	13/16	6-5/8	3/8	3-3/16	1-3/16	7/16	1/2	1-1/2	3/4	1

MODEL	AA	CC	DD	FF	GG	HH	II	JJ	KK	LL	MM	OO	Wt. Lbs.
328	3-13/16	1-29/32	3-11/16	1/2	3	1-1/2	4	2	1/2 NC	3/4	29/32	7/16	109
388	4	2	4	1/2	3-5/8	1-13/16	4-5/8	2-5/16	1/2 NC	15/16	1	0	138
458	4-5/8	2-5/16	5-5/8	1/2	3-11/16	1-27/32	4-3/4	2-3/8	5/8 NC	7/8	1-1/8	0	168
528	5-1/16	2-17/32	5-3/8	1/2	4-1/2	2-1/4	5-11/16	2-27/32	5/8 NC	1	1-1/4	0	234

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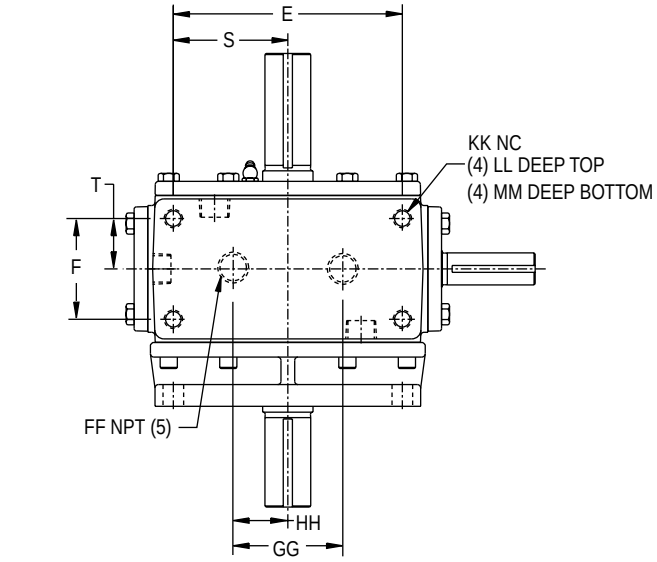
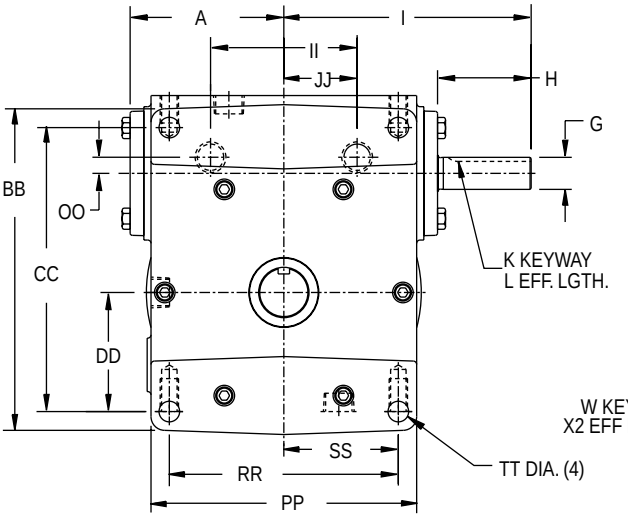
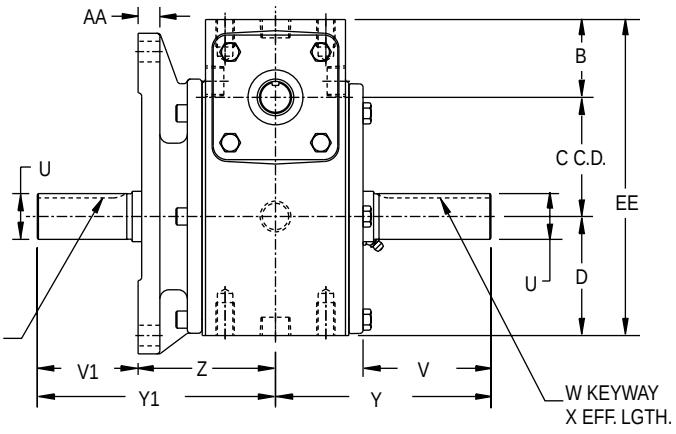
FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 189V, 219V, 269V, 329V, 389V, 459V, 529V, 609V(F), 709V(F) & 809V(F)



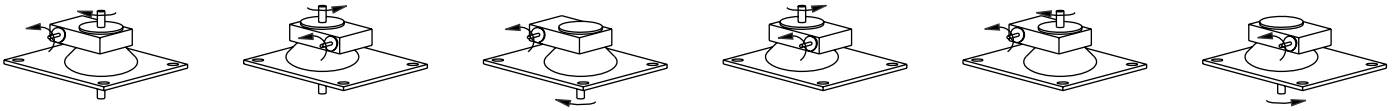
FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R





Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



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CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

HUB CITY

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

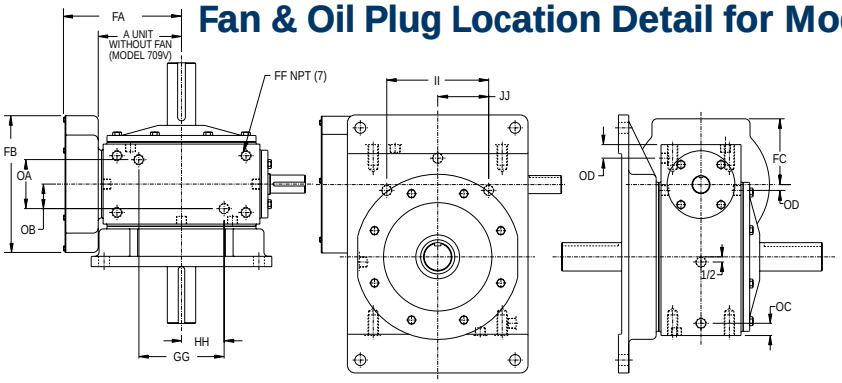
Models 189V, 219V, 269V, 329V, 389V, 459V, 529V, 609V(F), 709V(F) & 809V(F)

MODEL	A	B	C	D	E	F	G	H	I	K	L	S	T
189V	2-15/32	1.374	1.751	1.875	3-1/8	1-5/8	.500/.499	1-27/32	4	1/8 X 1/16	1-13/32	1-9/16	13/16
219V	2-29/32	1.499	2.064	2.437	4	2	.625/.624	1-29/32	4-7/16	3/16 X 3/32	1-3/8	2	1
269V	3-13/32	1.874	2.626	2.938	4-7/8	2-11/16	.625/.624	2-23/32	5-5/8	3/16 X 3/32	2-3/16	2-7/16	1-11/32
329V	4-3/16	2.124	3.251	3.250	6-1/4	2-3/4	.875/.874	2-9/16	6-3/4	3/16 X 3/32	2	3-1/8	1-3/8
389V	4-11/16	2.374	3.751	3.937	6-7/8	3	1.000/.999	2-9/16	7-1/8	1/4 X 1/8	1-29/32	3-7/16	1-1/2
459V	5-11/16	2.499	4.501	4.625	8-1/8	3-1/4	1.125/1.124	3-7/32	8-7/16	1/4 X 1/8	2-1/2	4-1/16	1-5/8
529V	6-13/32	2.624	5.168	5.375	9-1/2	3-3/4	1.250/1.249	3-9/32	9-1/4	1/4 X 1/8	2-5/8	4-3/4	1-7/8
609V & 609VF	SEE BELOW	3.250	6.000	6.625	11	4-7/8	1.500/1.499	3-15/32	10-3/4	3/8 X 3/16	3	5-1/2	2-7/16
709V & 709VF		3.875	7.000	7.625	12-1/2	5-1/2	1.750/1.749	3-5/8	12	3/8 X 3/16	3-1/8	6-1/4	2-3/4
809V & 801VF		4.500	8.000	8.750	14-3/4	6-1/2	1.875/1.874	3-7/8	13-5/8	1/2 X 1/4	3-3/8	7-3/8	3-1/4

MODEL	U	V	V1	W	X	X1	Y	Y1	Z	AA	BB	CC	DD
189V	.750/.749	2-15/16	2	3/16 X 3/32	2-7/16	1-5/8	4-1/2	4-13/16	2-13/16	3/8	5-3/4	5	2-1/8
219V	.875/.874	2-7/8	2-1/4	3/16 X 3/32	2-5/16	1-13/16	4-3/4	5-1/2	3-1/4	1/2	6	5-1/4	2-1/8
269V	1.000/.999	3-9/32	2-1/2	1/4 X 1/8	2-7/16	1-7/8	5-3/8	6-1/8	3-5/8	1/2	7-1/2	6-3/4	2-7/8
329V	1.250/1.249	3-1/2	2-3/4	1/4 X 1/8	2-25/32	2-1/16	5-7/8	6-1/2	3-3/4	19/32	8-3/4	7-3/4	3-1/4
389V	1.500/1.499	4-5/16	3-1/4	3/8 X 3/16	3-15/32	2-19/32	7	7-1/4	4	5/8	10	9	3-3/4
459V	1.750/1.749	5-7/16	3-3/4	3/8 X 3/16	4-19/32	3-1/32	8-1/2	8-3/4	5	3/4	12-19/32	11	5
529V	2.000/1.999	5-21/32	4-1/4	1/2 X 1/4	5-1/8	3-3/4	9	9-3/4	5-1/2	3/4	16-27/32	15-1/4	6-3/4
609V & 609VF	2.250/2.249	4-5/8	4-1/2	1/2 X 1/4	4-1/2	4-1/2	9-3/4	10-1/2	6	3/4	20-1/2	18-1/2	7-1/2
709V & 709VF	2.750/2.751	6-1/16	5-1/2	5/8 X 5/16	5-5/8	5-1/2	11-3/4	13-1/2	8	1	25	22-1/2	10
809V & 801VF	3.250/3.248	8-1/2	6-1/2	3/4 X 3/8	7-7/8	6-1/8	15	16-1/2	10	1-1/4	30	27	11-1/2

MODEL	EE	FF	GG	HH	II	JJ	KK	LL	MM	OO	PP	RR	SS	TT	Wt.Lbs.
189V	5.000	1/8	1-1/2	3/4	1-1/2	3/4	1/4 NC	13/32	1/2	9/32	4-3/4	4	2	13/32	18
219V	6.000	1/4	2-1/4	1-1/8	2-7/8	1-7/16	3/8 NC	1/2	11/16	3/8	4-3/4	4	2	13/32	27
269V	7.438	1/4	2-1/2	1-1/4	2-1/2	1-1/4	3/8 NC	9/16	11/16	5/16	6-3/4	5-3/4	2-7/8	13/32	39
329V	8.625	1/2	3	1-1/2	4	2	1/2 NC	3/4	29/32	7/16	7-1/4	6-1/4	3-1/8	9/16	70
389V	10.062	1/2	3-5/8	1-13/16	4-5/8	2-5/16	1/2 NC	15/16	1	0	8	7	3-1/2	9/16	89
459V	11.625	1/2	3-11/16	1-27/32	4-3/4	2-3/8	5/8 NC	7/8	1-1/8	0	11-19/32	10	5	11/16	115
529V	13.167	1/2	4-1/2	2-1/4	5-11/16	2-27/32	5/8 NC	1	1-1/4	0	12-19/32	11	5-1/2	11/16	144
609V & 609VF	15.875	SEE BELOW					7/8 NC	1-7/8	1-7/8	SEE BELOW	14	12	6	13/16	324
709V & 709VF	18.50	SEE BELOW					1 NC	2	2		17-1/2	15	7-1/2	1-1/16	485
809V & 801VF	21.250	SEE BELOW					1 NC	2	2		22-1/2	19-1/2	9-3/4	1-5/16	730

Fan & Oil Plug Location Detail for Models 601 thru 801F



MODEL	A	FF	GG	HH	II	JJ	OA	OB	OC	OD	OO
609V & 609VF	7-9/32	3/4	7-1/2	3-3/4	9-5/8	4-13/16	4	2	1	1-1/8	9/16
709V & 709VF	8-3/8	3/4	8-1/4	4-1/8	9-7/8	4-15/16	4-3/4	2-3/8	1-3/16	1-5/16	9/16
809V & 801VF	10	3/4	9-1/2	4-3/8	9-3/4	4-7/8	6	3	1-5/16	1-1/2	0

MODEL	FA	FB	FC
609VF	10-1/16	11-1/2	5-7/8
709VF	11-1/2	13-1/4	6-3/8
809VF	13-3/32	14-1/2	7

NOTE: “F” in model numbers 601F, 701F and 801F indicates “fan”

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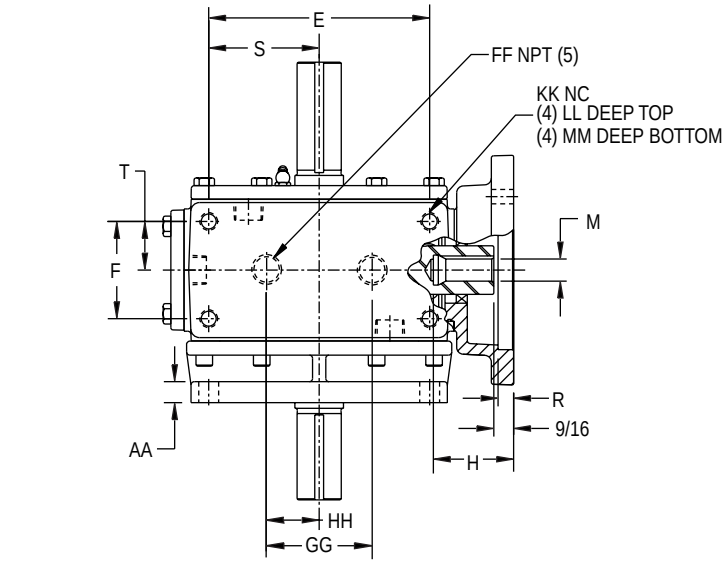
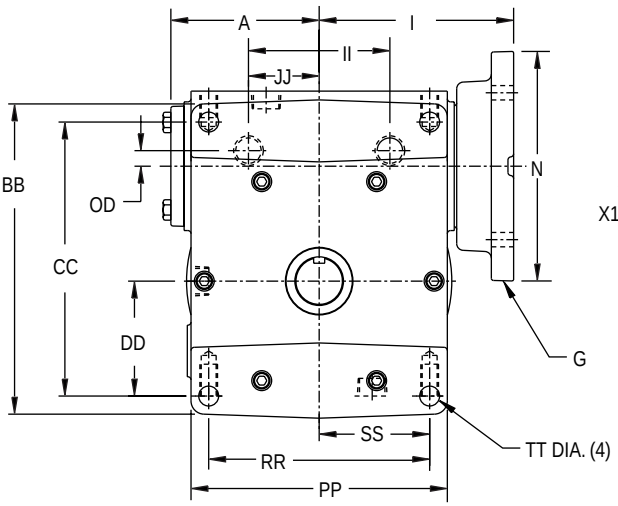
FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

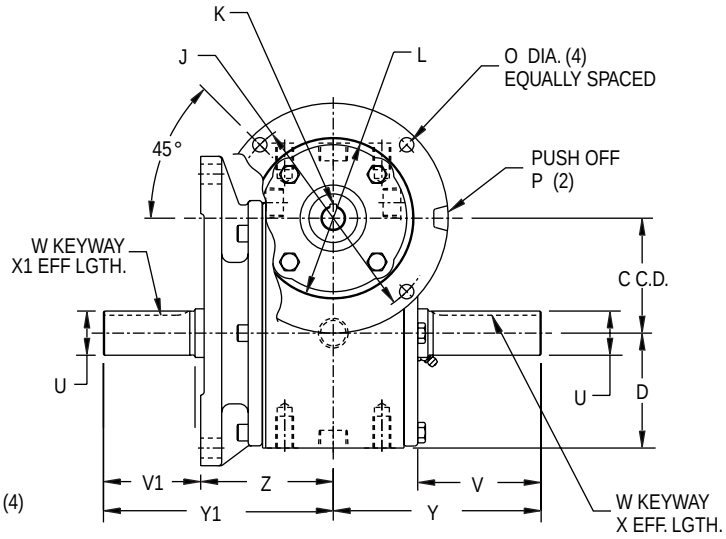
Models 180V, 210V, 260V, 320V, 380V, 450V & 520V

FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

SPECIAL, 48C, METRIC AND SAE HYDRAULIC INPUT FLANGES AVAILABLE. CONSULT FACTORY FOR COMPLETE SPECIFICATIONS.







Standard Styles Available

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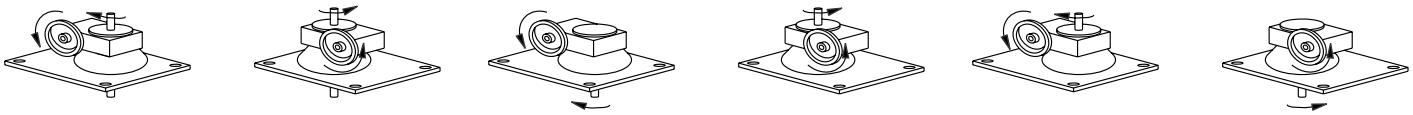

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CALL: (605) 225-0360

FAX: (605) 225-0567

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FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 180V, 210V, 260V, 320V, 380V, 450V & 520V

MODEL	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R
180V	2-15/32	1.751	1.875	3-1/8	1-5/8	56C	2-9/32	3-3/4	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64
210V	2-29/32	2.064	2.437	4	2	56C	2-1/4	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64
						143TC	2-3/8					.8755/.8770				
260V	3-13/32	2.626	2.938	4-7/8	2-11/16	56C	2-1/4	4-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64
						143TC	2-3/8					.8755/.8770				
						182TC	3-3/16	5	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
320V	4-3/16	3.251	3.250	6-1/4	2-3/4	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16
						143TC	2-3/8					.8755/.8770				
						182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
380V	4-11/16	3.751	3.937	6-7/8	3	56C	2-1/4	5-7/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	13/64
						143TC	2-3/8	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	5-1/2	13/32	SLOTS	13/64
						182TC	3-3/16	6-5/8	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
450V	5-11/16	4.501	4.625	8-1/8	3-1/4	56C	2-1/4	6-3/4	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16
						143TC	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16
						182TC	3-3/16	6-3/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
						213TC	3-1/2			5/16 X 5/32		1.3755/1.3770				
520V*	6-13/32	5.168	5.375	9-1/2	3-3/4	182TC	3-3/16	7-1/2	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16
						213TC	3-1/2			5/16 X 5/32		1.3755/1.3770				

*56C & 143TC FLANGES AVAILABLE AS MODIFIED STANDARDS

MODEL	S	T	U	V	V1	W	X	X1	Y	Y1	Z	AA	BB	CC
180V	1-9/16	13/16	.750/.749	2-15/16	2	3/16 X 3/32	2-7/16	1-5/8	4-1/2	4-13/16	2-13/16	3/8	5-3/4	5
210V	2	1	.875/.874	2-7/8	2-1/4	3/16 X 3/32	2-5/16	1-13/16	4-3/4	5-1/2	3-1/4	1/2	6	5-1/4
260V	2-7/16	1-11/32	1.000/.999	3-9/32	2-1/2	1/4 X 1/8	2-7/16	1-7/8	5-3/8	6-1/8	3-5/8	1/2	7-1/2	6-3/4
320V	3-1/8	1-3/8	1.250/1.249	3-1/2	2-3/4	1/4 X 1/8	2-25/32	2-1/16	5-7/8	6-1/2	3-3/4	19/32	8-3/4	7-3/4
380V	3-7/16	1-1/2	1.500/1.499	4-5/16	3-1/4	3/8 X 3/16	3-15/32	2-19/32	7	7-1/4	4	5/8	10	9
450V	4-1/16	1-5/8	1.750/1.749	5-7/16	3-3/4	3/8 X 3/16	4-19/32	3-1/32	8-1/2	8-3/4	5	3/4	12-19/32	11
520V	4-3/4	1-7/8	2.000/1.999	5-21/32	4-1/4	1/2 X 1/4	5-1/8	3-3/4	9	9-3/4	5-1/2	3/4	16-27/32	15-1/4

MODEL	DD	FF	GG	HH	II	JJ	KK	LL	MM	OO	PP	RR	SS	TT	Wt.Lbs.
180V	2-1/8	1/8	1-1/2	3/4	1-1/2	3/4	1/4 NC	13/32	1/2	9/32	4-3/4	4	2	13/32	24
210V	2-1/8	1/4	2-1/4	1-1/8	2-7/8	1-7/16	3/8 NC	1/2	11/16	3/8	4-3/4	4	2	13/32	31
260V	2-7/8	1/4	2-1/2	1-1/4	2-1/2	1-1/4	3/8 NC	9/16	11/16	5/16	6-3/4	5-3/4	2-7/8	13/32	44
320V	3-1/4	1/2	3	1-1/2	4	2	1/2 NC	3/4	29/32	7/16	7-1/4	6-1/4	3-1/8	9/16	76
380V	3-3/4	1/2	3-5/8	1-13/16	4-5/8	2-5/16	1/2 NC	15/16	1	0	8	7	3-1/2	9/16	96
450V	5	1/2	3-11/16	1-27/32	4-3/4	2-3/8	5/8 NC	7/8	1-1/8	0	11-19/32	10	5	11/16	125
520V	6-3/4	1/2	4-1/2	2-1/4	5-11/16	2-27/32	5/8 NC	1	1-1/4	0	12-19/32	11	5-1/2	11/16	154

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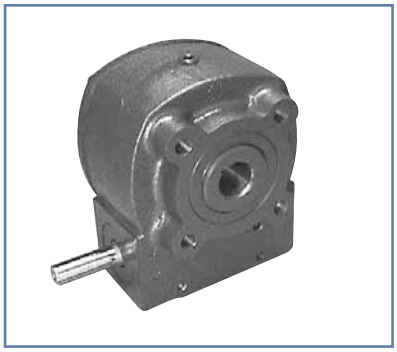
FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Model W300

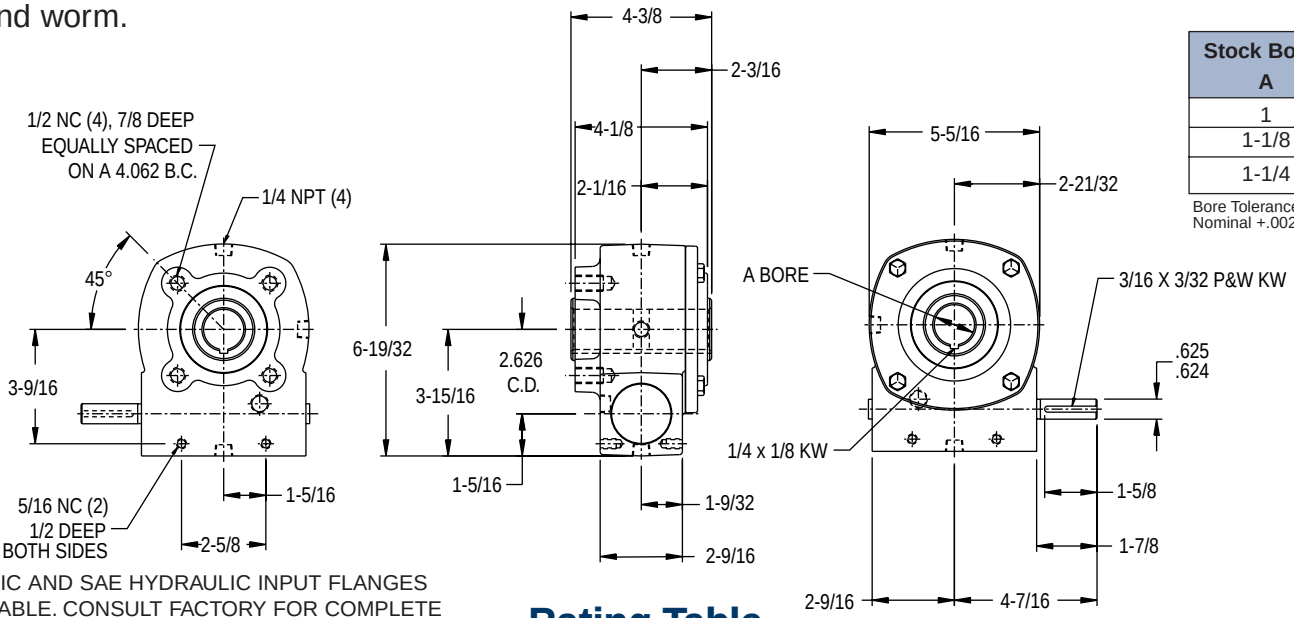
Model W300 is a small, compact reducer that is adaptable to many applications in the medium horsepower range. Unit is shaft mounted for direct mounting on drive shafts. Two drilled and tapped holes on either side of housing for torque arm or other mountings.

Unit available with all cast iron alloy housings or lightweight aluminum housings.

Construction features include, tapered roller output bearings, input ball bearings, bronze worm gear, and hardened and ground worm.



FOR LUBRICATION AND INSTALLATION INSTRUCTIONS REFER TO SECTION R.



Stock Bores A
1
1-1/8
1-1/4

Bore Tolerance Nominal +.002

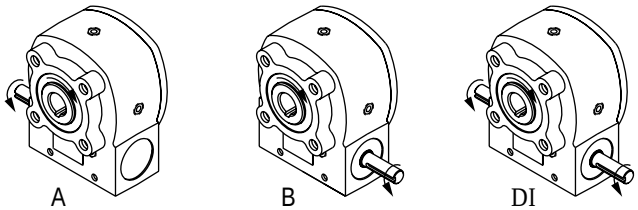
METRIC AND SAE HYDRAULIC INPUT FLANGES AVAILABLE. CONSULT FACTORY FOR COMPLETE SPECIFICATIONS.

Rating Table

RATIO	1750 RPM INPUT			1150 RPM INPUT			850 RPM INPUT			690 RPM INPUT			100 RPM INPUT		
	INPUT HP	OUTPUT RPM	OUTPUT IN-LB TORQUE	INPUT HP	OUTPUT RPM	OUTPUT IN-LB TORQUE	INPUT HP	OUTPUT RPM	OUTPUT IN-LB TORQUE	INPUT HP	OUTPUT RPM	OUTPUT IN-LB TORQUE	INPUT HP	OUTPUT RPM	OUTPUT IN-LB TORQUE
10:1	2.45	175.0	800	1.90	115.0	960	1.55	85.0	1090	1.35	69.0	1160	.30	10.0	1650
15:1	1.56	116.6	710	1.13	76.6	845	1.01	56.6	980	.84	46.0	1055	.25	6.6	1560
20:1	1.33	87.5	870	1.02	57.5	1020	.83	42.5	1160	.74	34.5	1220	.23	5.0	1750
25:1	1.04	70.0	865	.84	46.0	1050	.64	34.0	1070	.60	27.6	1160	.14	4.0	1410
30:1	.94	58.3	730	.68	38.3	870	.60	28.3	1015	.51	23.0	1090	.15	3.3	1600
40:1	.71	43.7	820	.54	28.8	1000	.46	21.2	1130	.41	17.2	1200	.13	2.5	1690
50:1	.53	35.0	760	.42	23.0	930	.36	17.0	1060	.31	13.8	1140	.08	2.0	1540
60:1	.50	29.2	640	.42	19.1	840	.35	14.1	990	.30	11.5	1075	.08	1.6	1350

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

FAX: (605) 225-0567

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FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Model W50B

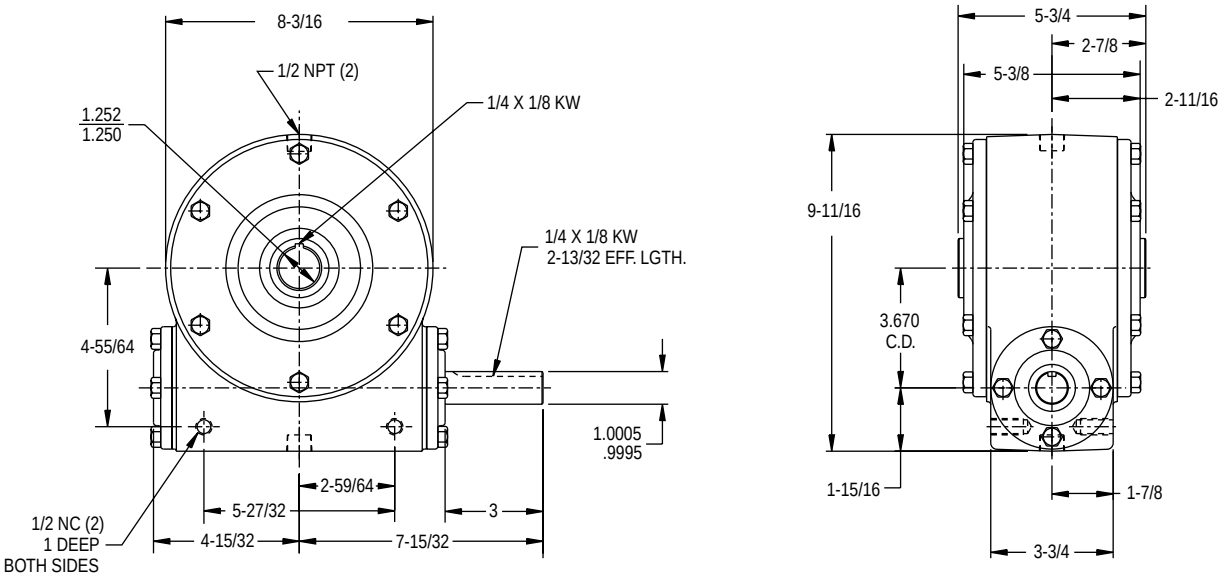
Model W50B worm gear reducers are sturdily built, compact, and have a high torque capacity. Output sleeve has hollow bore for direct mounting on driven shaft.

Tapered roller bearings and bronze worm gear for improved efficiency and smooth operation.

Construction with all cast alloy iron housings; heavy-duty industrial seals.

Factory installed “C” flanges are available on special order.

FOR LUBRICATION AND INSTALLATION INSTRUCTIONS REFER TO SECTION R.



Rating Table

RATIO	1750 RPM INPUT			1150 RPM INPUT			850 RPM INPUT			690 RPM INPUT			100 RPM INPUT		
	INPUT HP	OUTPUT RPM	OUTPUT IN-LB TORQUE	INPUT HP	OUTPUT RPM	OUTPUT IN-LB TORQUE	INPUT HP	OUTPUT RPM	OUTPUT IN-LB TORQUE	INPUT HP	OUTPUT RPM	OUTPUT IN-LB TORQUE	INPUT HP	OUTPUT RPM	OUTPUT IN-LB TORQUE
8:1	5.5	218.0	1510	4.4	144.0	1860	3.8	106.0	2170	3.4	86.0	2360	.80	12.5	3790
16:1	3.2	109.0	1690	2.6	72.0	2110	2.0	53.0	2420	1.9	43.0	2640	.45	6.25	4180
32:1	1.7	54.7	1640	1.4	36.0	2600	1.2	26.5	2360	1.1	21.5	2590	.25	3.12	4030

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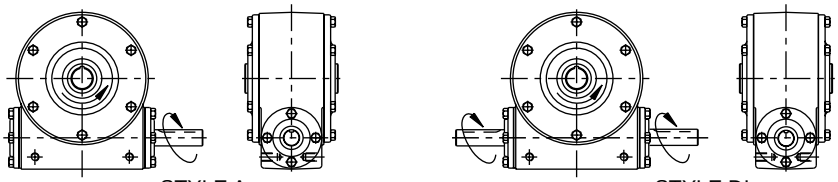
Standard Styles Available



STYLE A STYLE DI

CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

HUB CITY SINGLE REDUCTION WORM GEAR DRIVES

Model W516

Model W516 is ideally suited for apron drive applications on spreader wagons, bulk feed boxes, etc.

Constructed with all alloy cast iron housings, tapered roller bearings, and industrial type oil seals. Totally enclosed for oil lubrication.

Unit available with either bronze or cast iron worm gear. Also available with output shaft extensions or hollow bore for shaft mounting. Four mounting pads on either side of the housing are drilled and tapped 1/2" NC for direct mounting.

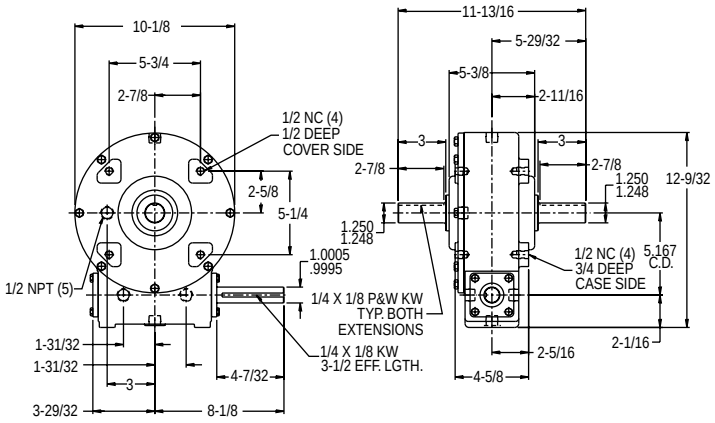
FOR LUBRICATION AND INSTALLATION INSTRUCTIONS REFER TO SECTION R.

Rating Table

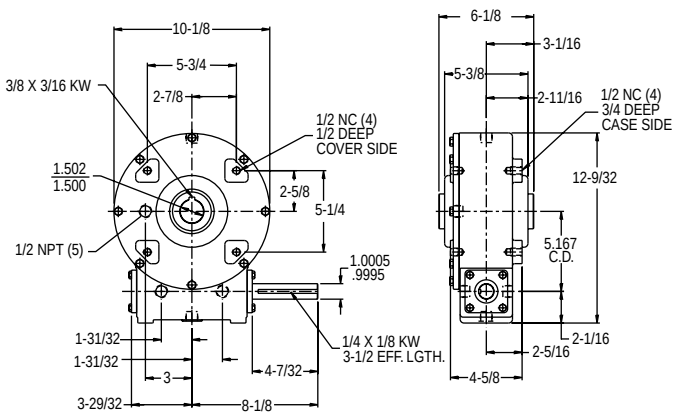
MODEL	RATIO	1750 RPM INPUT			1150 RPM INPUT			850 RPM INPUT			690 RPM INPUT			100 RPM INPUT		
			OUTPUT			OUTPUT			OUTPUT			OUTPUT			OUTPUT	
		INPUT HP	RPM	IN-LB TORQUE	INPUT HP	RPM	IN-LB TORQUE	INPUT HP	RPM	IN-LB TORQUE	INPUT HP	RPM	IN-LB TORQUE	INPUT HP	RPM	IN-LB TORQUE
W516 BRONZE GEAR	*12.5:1	12.7	140	5267	10.5	92	6576	9.4	68	7878	8.5	55.2	8677	1.8	8	12,289
	25:1	7.2	70	5654	6.1	46	7110	5.4	34	8378	4.9	27.6	9225	1.2	4	13,077
	50:1	4.2	35	5402	3.6	23	7343	3.2	17	8890	2.9	13.8	9819	.68	2	14,495
W516 CAST IRON GEAR	*12.5:1							5.1	68	4016	4.5	55.2	4262	1.0	8	5909
	25:1							2.8	34	3891	2.5	27.6	4167	.55	4	5460
	50:1							1.5	17	3613	1.3	13.8	3740	.25	2	3939

*Mfg. to order - Consult factory for price and delivery

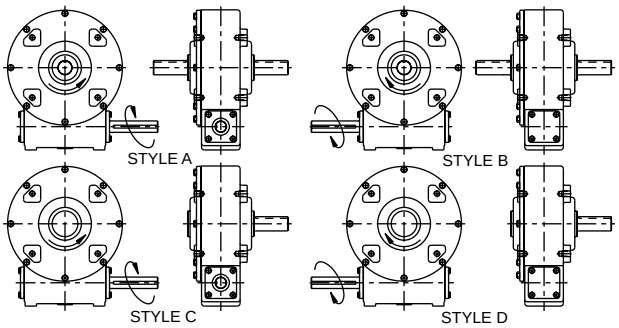
W516 Solid Shaft Output



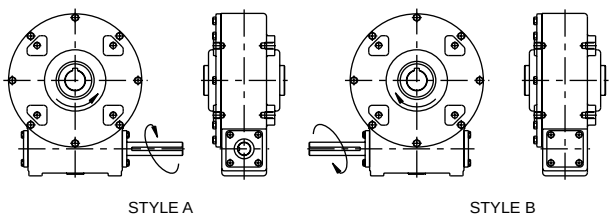
W516 Hollow Bore Output



Styles Available



Styles Available



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CALL: (605) 225-0360

FAX: (605) 225-0567

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TorquePlus Helical Ratio Multiplier

Models 251 and 254

- Four ratios available from 2:1 to 5:1
- Can be used as reducer or increaser.
- Provides additional reduction capability when mounted onto Helical Gear Reducer or Worm Gear Reducer
- C-flange or solid input shaft.
- Helical gearing.
- Double lip seals.
- Cast aluminum housing.
- Base mounting available.
- Permanently lubricated at factory.

Input RPM*	TORQUEPLUS		Ratios 2:1	3:1	4:1	5:1
2400	Input Horsepower		13.65	9.73	8.16	6.80
	Output Torque in.-lbs.		717	767	857	893
1750	Input Horsepower		10.25	7.29	6.09	5.07
	Output Torque in.-lbs.		738	787	878	913
1150	Input Horsepower		6.97	4.94	4.12	3.42
	Output Torque in.-lbs.		763	811	903	937
850	Input Horsepower		5.26	3.72	3.10	2.57
	Output Torque in.-lbs.		780	827	918	952
690	Input Horsepower		4.33	3.05	2.54	2.10
	Output Torque in.-lbs.		790	837	928	961
300	Input Horsepower		1.96	1.38	1.14	0.95
	Output Torque in.-lbs.		825	869	961	993
100	Input Horsepower		0.68	0.47	0.39	0.32
	Output Torque in.-lbs.		856	898	990	1020
WR^2 (LB.-IN.^{2}) Referred To High Speed Shaft		Model 251	0.79	0.49	0.37	0.29
		Model 254	0.95	0.65	0.52	0.43
WR^2 (LB.-IN.^{2}) Referred To Low Speed Shaft		Model 251	3.16	4.74	5.91	7.19
		Model 254	3.78	5.87	8.32	10.71

* FOR HIGHER INPUT SPEEDS, CONSULT FACTORY

Overhung Load At Center Of Shaft Extension 100-2400 RPM Input	
Input O.H.L.	100 LBS.
Output OHL 7/8" Shaft	500 LBS.

Weight	
Model 251	11 LBS.
Model 254	12.5 LBS.

Legend: Worm Gear Series / Output Torque (in.lbs.)

Ratio Comb.	Red. Ratio	RPM Output	Input H.P. @ 1750 RPM 1/8	1/6	1/4	1/3	1/2	3/4	1	1-1/2	2	3	5
2X5	10	175	130/40	130/53	130/80	130/105	180/161	180/242	180/323	180/484	210/642	260/964	320/1632
3X5	15	117	130/59	130/78	130/117	130/153	130/235	180/358	180/478	210/713	260/959	320/1462	320/2436
4X5	20	88	130/78	130/103	130/154	130/202	180/316	180/474	210/632	260/9533	260/1270	320/1937	320/3229
5X5	25	70	130/96	130/128	130/192	130/251	180/390	180/584	210/785	260/1191	320/1613	320/2419	380/4063
3X10	30	58	130/111	130/147	130/221	130/289	180/447	210/675	210/900	260/1409	320/1865	320/2802	380/4734
4X10	40	44	130/143	130/189	130/284	180/380	180/583	210/884	260/1228	260/1842	320/2443	320/3663	380/6232
3X15	45	39	130/153	130/203	130/305	180/409	180/626	210/938	260/1294	320/1991	320/2654	320/3967	450/6778
5X10	50	35	130/175	130/232	180/357	180/467	210/723	260/1142	260/1523	320/2282	320/3042	380/4643	450/7818
4X15	60	29	130/200	130/266	180/410	180/535	210/831	260/1289	260/1719	320/2636	320/3514	380/5367	450/9052
5X15	75	23	130/244	130/324	180/505	180/659	210/1020	260/1591	320/2189	320/3283	320/4377	380/6887	450/11332
5X20	100	17	130/315	180/433	180/650	210/866	260/1402	260/2104	320/2823	320/4234	380/5850	450/8970	520/15260
5X30	150	11.7	180/404	180/536	210/813	210/1062	260/1742	320/2740	320/3653	380/5620	380/7560	450/11656	—
5X40	200	8.7	180/499	180/661	210/1020	260/1784	260/2272	320/3391	380/4552	380/7198	450/9940	520/15653	—
5X50	250	7.0	180/551	180/739	260/1350	260/1772	320/2612	320/3912	380/5670	450/8861	520/12497	—	—
5X60	300	5.8	180/600	260/893	260/1361	320/1919	320/2928	450/5031	450/6161	520/10807	—	—	—

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TorquePlus Helical Ratio Multiplier

Model 251

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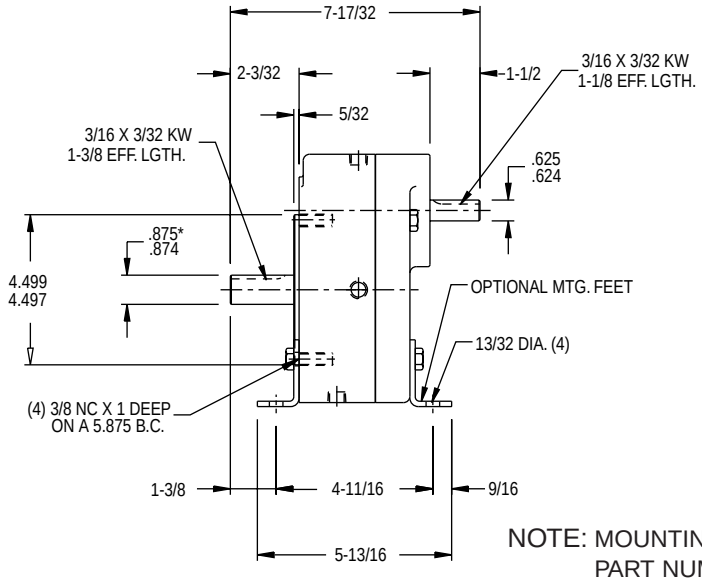
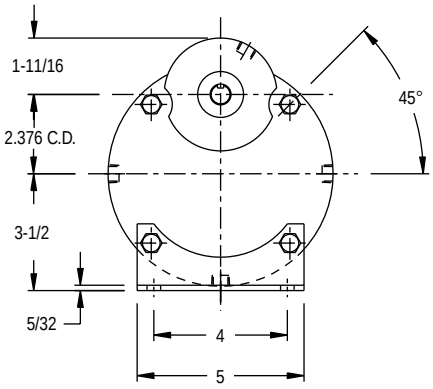
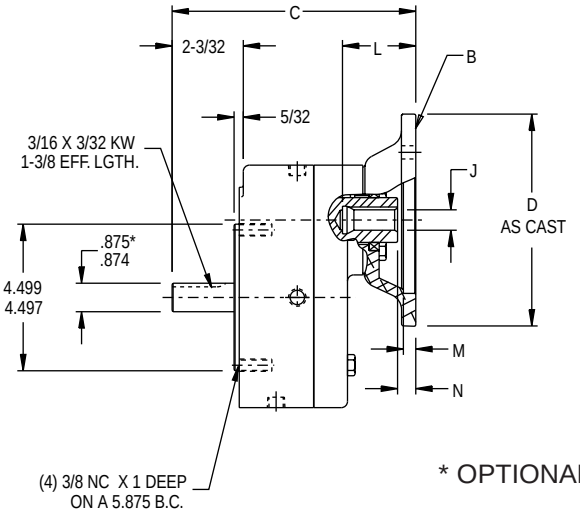
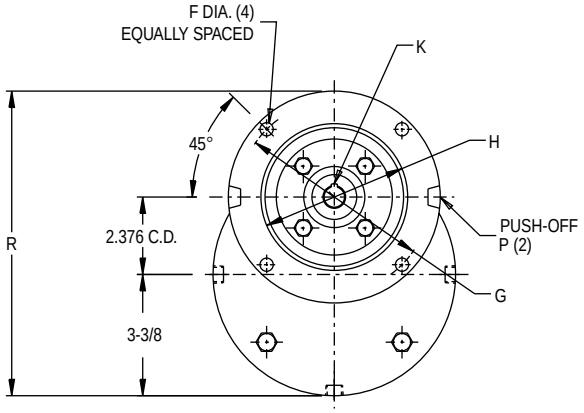




NOTE: MOUNTING FEET AVAILABLE FOR BOTH MODELS AS AN OPTION.
PART NUMBER 0229-00099 FOR MODELS 251 AND 254.

Model 254





* OPTIONAL $\frac{.625}{.624}$ OUTPUT SHAFT TO BE USED TO CONNECT TO 56C FLANGE ONLY.

NEMA FLANGE	C	D	F	B.C. DIA. G	COUNTER BORE H	MOTOR SHAFT QUILL J	KEYWAY K	L	M	N	P	R
56C	7-17/32	6-17/32	13/32	5-7/8	4.501 / 4.503	.6255 / .6270	3/16 X 3/32	2-1/4	3/8	9/16	SLOTS	9
143TC, 145TC, 182C, 184C	7-17/32	6-17/32	13/32	5-7/8	4.501 / 4.503	.8755 / .8770	3/16 x 3/32	2-1/4	3/8	9/16	SLOTS	9
182TC, 184TC, 213C, 215C	8-13/32	9	17/32	7-1/4	8.501 / 8.504	1.1255 / 1.1270	1/4 x 1/8	3-1/8	7/16	13/16	HOLES	10-1/4

NOTE: When 182TC motor flange is used on this unit, additional support should be provided for the motor, or this unit should be supported on a foot mounted motor.

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FAX: (605) 225-0567
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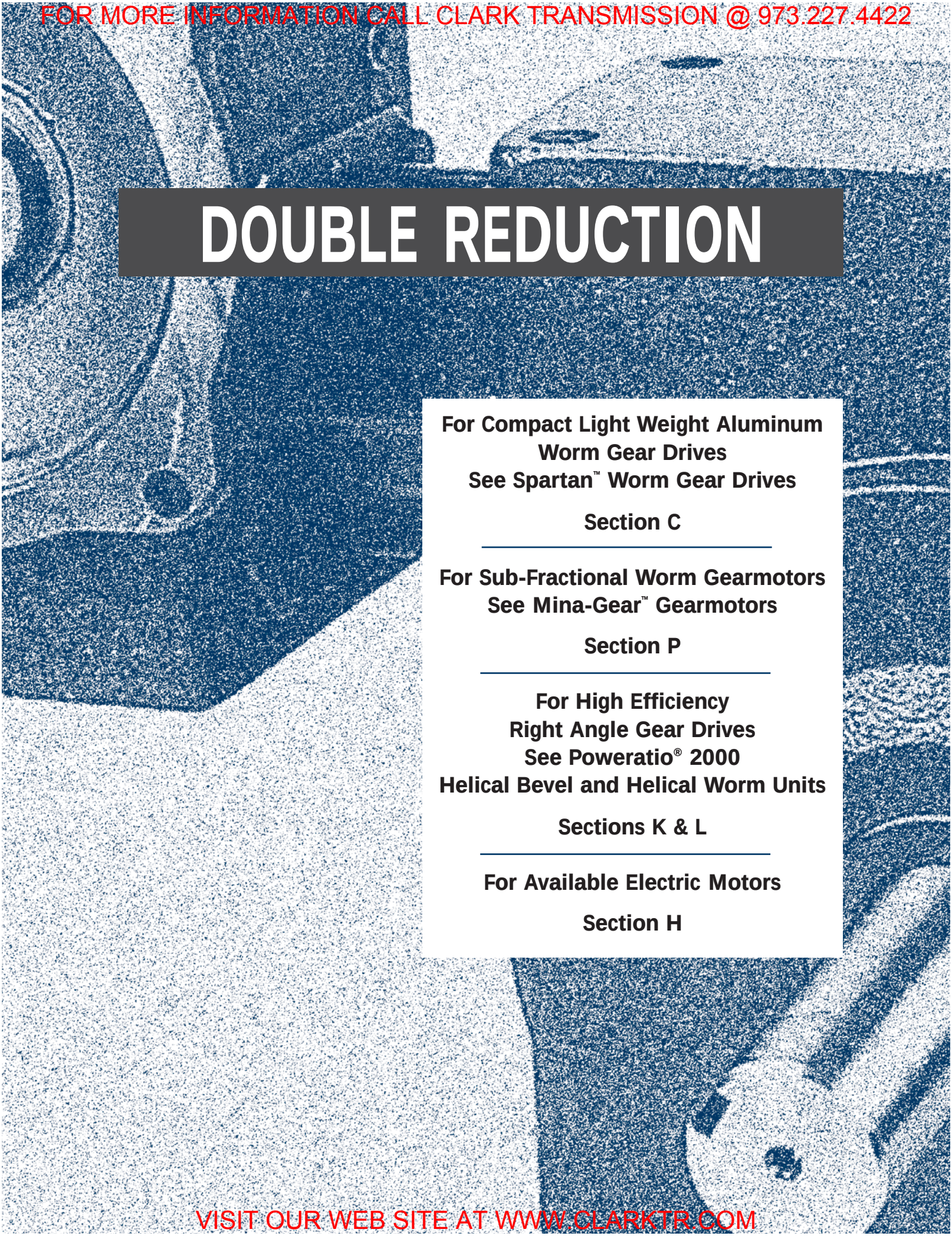

DOUBLE REDUCTION

For Compact Light Weight Aluminum Worm Gear Drives
See Spartan™ Worm Gear Drives

Section C

For Sub-Fractional Worm Gearmotors
See Mina-Gear™ Gearmotors

Section P

For High Efficiency Right Angle Gear Drives
See Poweratio® 2000 Helical Bevel and Helical Worm Units

Sections K & L

For Available Electric Motors

Section H

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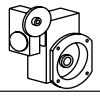
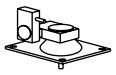
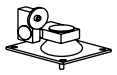
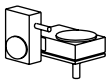
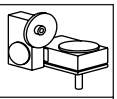
FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Model Index

SERIES										
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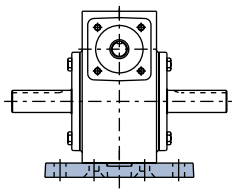
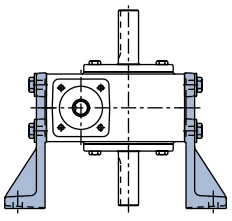
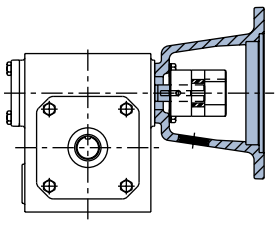
For Accessories Refer to Page B-91 Thru B-98



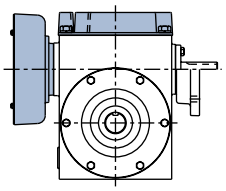
Universal Base Kits



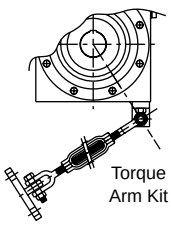
Side Mounting Kits



NEMA "C" Flange Adaptor Kits



Fan Kits & Thermal Block Kits



Torque Arm Kit

LUBRICATION AND MOUNTING POSITIONS

Follow the lubrication instructions that are furnished for the Primary, and Final Drive of your Hub City Double Reduction Worm Gear Reducer.

The two units that make up the Double Reduction Assembly have independent oil reservoirs and each must be filled to the specified level of oil indicated in the lubrication instructions.

⚠CAUTION — The Double Reduction Worm Gear Reducer may be mounted in virtually any position. However, if the final mounting position is such that any of the shafts is in a vertical position, it is suggested that you consult the factory or your Hub City Distributor for special lubrication instructions.

CALL: (605) 225-0360

HUB CITY

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

FOR MOTOR SELECTION
REFER TO SECTION H

Series 1300 & 1800 Ratings

1750 RPM INPUT SPEED (HIGH SPEED SHAFT)

SERIES 1300 MECHANICAL RATING							SERIES 1300 THERMAL		SERIES 1800 MECHANICAL RATING							SERIES 1800 THERMAL	
RATIO	Output R.P.M.	Ratio Combination Primary	Ratio Combination Secondary	SERVICE FACTOR 1.00 Input H.P.	SERVICE FACTOR 1.00 Output Torque	Eff. %	DESIGN OPTION Basic Unit Input H.P.	DESIGN OPTION Basic Unit Output Torque	RATIO	Output R.P.M.	Ratio Combination Primary	Ratio Combination Secondary	SERVICE FACTOR 1.00 Input H.P.	SERVICE FACTOR 1.00 Output Torque	Eff. %	DESIGN OPTION Basic Unit Input H.P.	DESIGN OPTION Basic Unit Output Torque
50	35.0	5	10	.250	328	72.9	.250	328	50	35.0	5	10	.509	686	74.9	.509	686
75	23.3	5	15	.189	342	66.9	.189	342	75	23.3	5	15	.403	753	69.2	.403	753
100	17.5	5	20	.155	354	63.6	.155	354	100	17.5	5	20	.335	797	66.1	.335	797
150	11.7	10	15	.114	354	57.6	.114	354	150	11.7	10	15	.252	815	59.9	.252	815
200	8.75	10	20	.0937	365	54.4	.0937	365	200	8.75	10	20	.201	818	56.6	.201	818
250	7.00	5	50	.0804	312	43.1	.0804	312	250	7.00	5	50	.170	708	46.2	.170	708
300	5.83	20	15	.0685	359	48.5	.0685	359	300	5.83	20	15	.148	805	50.3	.148	805
400	4.38	20	20	.0569	372	45.4	.0569	372	400	4.38	20	20	.123	834	47.2	.123	834
500	3.50	50	10	.0481	328	37.9	.0481	328	500	3.50	50	10	.104	736	39.4	.104	736
600	2.92	20	30	.0486	370	35.2	.0486	370	600	2.92	20	30	.103	829	37.1	.103	829
750	2.33	50	15	.0410	359	32.4	.0410	359	750	2.33	50	15	.0869	805	34.3	.0869	805
1000	1.75	50	20	.0345	372	29.9	.0345	372	1000	1.75	50	20	.0728	834	31.8	.0728	834
1200	1.46	40	30	.0333	370	25.7	.0333	370	1200	1.46	40	30	.0695	829	27.6	.0695	829
1500	1.17	50	30	.0307	370	22.3	.0307	370	1500	1.17	50	30	.0642	829	23.9	.0642	829
1800	.972	60	30	.0290	370	19.7	.0290	370	1800	.972	60	30	.0612	829	20.9	.0612	829
2000	.875	50	40	.0255	365	19.9	.0255	365	2000	.875	50	40	.0536	830	21.5	.0536	830
2400	.729	60	40	.0240	365	17.6	.0240	365	2400	.729	60	40	.0511	830	18.8	.0511	830
3000	.583	60	50	.0196	312	14.7	.0196	312	3000	.583	60	50	.0415	708	15.8	.0415	708
3600	.486	60	60	.0155	253	12.6	.0155	253	3600	.486	60	60	.0327	573	13.5	.0327	573

1150 RPM INPUT SPEED (HIGH SPEED SHAFT)

RATIO	Output R.P.M.	Ratio Combination Primary	Ratio Combination Secondary	SERVICE FACTOR 1.00 Input H.P.	SERVICE FACTOR 1.00 Output Torque	Eff. %	DESIGN OPTION Basic Unit Input H.P.	DESIGN OPTION Basic Unit Output Torque	RATIO	Output R.P.M.	Ratio Combination Primary	Ratio Combination Secondary	SERVICE FACTOR 1.00 Input H.P.	SERVICE FACTOR 1.00 Output Torque	Eff. %	DESIGN OPTION Basic Unit Input H.P.	DESIGN OPTION Basic Unit Output Torque
50	23.0	5	10	.169	320	69.3	.169	320	50	23.0	5	10	.363	710	71.4	.363	710
75	15.3	5	15	.136	350	62.7	.136	350	75	15.3	5	15	.291	778	65.1	.291	778
100	11.5	5	20	.112	363	59.2	.112	363	100	11.5	5	20	.250	844	61.7	.250	844
150	7.67	10	15	.0811	358	53.7	.0811	358	150	7.67	10	15	.175	801	55.7	.175	801
200	5.75	10	20	.0673	371	50.3	.0673	371	200	5.75	10	20	.145	831	52.4	.145	831
250	4.60	5	50	.0593	312	38.4	.0593	312	250	4.60	5	50	.125	708	41.2	.125	708
300	3.83	20	15	.0484	359	45.1	.0484	359	300	3.83	20	15	.105	805	46.7	.105	805
400	2.88	20	20	.0404	372	42.0	.0404	372	400	2.88	20	20	.0871	834	43.7	.0871	834
500	2.30	50	10	.0346	328	34.6	.0346	328	500	2.30	50	10	.0752	736	35.7	.0752	736
600	1.92	20	30	.0352	370	32.0	.0352	370	600	1.92	20	30	.0748	829	33.7	.0748	829
750	1.53	50	15	.0297	359	29.4	.0297	359	750	1.53	50	15	.0642	805	30.5	.0642	805
1000	1.15	50	20	.0250	372	27.1	.0250	372	1000	1.15	50	20	.0542	834	28.1	.0542	834
1200	.958	40	30	.0248	370	22.7	.0248	370	1200	.958	40	30	.0525	829	24.0	.0525	829
1500	.767	50	30	.0227	370	19.8	.0227	370	1500	.767	50	30	.0487	829	20.7	.0487	829
1800	.639	60	30	.0212	370	17.7	.0212	370	1800	.639	60	30	.0459	829	18.3	.0459	829
2000	.575	50	40	.0188	365	17.7	.0188	365	2000	.575	50	40	.0409	830	18.5	.0409	830
2400	.479	60	40	.0176	365	15.8	.0176	365	2400	.479	60	40	.0387	830	16.3	.0387	830
3000	.383	60	50	.0146	312	13.0	.0146	312	3000	.383	60	50	.0317	708	13.6	.0317	708
3600	.319	60	60	.0116	253	11.1	.0116	253	3600	.319	60	60	.0250	573	11.6	.0250	573

850 RPM INPUT SPEED (HIGH SPEED SHAFT)

RATIO	Output R.P.M.	Ratio Combination Primary	Ratio Combination Secondary	SERVICE FACTOR 1.00 Input H.P.	SERVICE FACTOR 1.00 Output Torque	Eff. %	DESIGN OPTION Basic Unit Input H.P.	DESIGN OPTION Basic Unit Output Torque	RATIO	Output R.P.M.	Ratio Combination Primary	Ratio Combination Secondary	SERVICE FACTOR 1.00 Input H.P.	SERVICE FACTOR 1.00 Output Torque	Eff. %	DESIGN OPTION Basic Unit Input H.P.	DESIGN OPTION Basic Unit Output Torque
50	17.0	5	10	.131	324	66.7	.131	324	50	17.0	5	10	.283	721	68.8	.283	721
75	11.3	5	15	.106	354	59.9	.106	354	75	11.3	5	15	.228	790	62.2	.228	790
100	8.5	5	20	.0876	367	56.5	.0876	367	100	8.5	5	20	.188	819	58.8	.188	819
150	5.67	10	15	.0630	359	51.2	.0630	359	150	5.67	10	15	.136	805	53.1	.136	805
200	4.25	10	20	.0527	372	47.6	.0527	372	200	4.25	10	20	.113	834	49.8	.113	834
250	3.40	5	50	.0474	312	35.5	.0474	312	250	3.40	5	50	.101	708	38.0	.101	708
300	2.83	20	15	.0385	359	41.9	.0385	359	300	2.83	20	15	.0815	805	44.4	.0815	805
400	2.12	20	20	.0324	372	38.7	.0324	372	400	2.12	20	20	.0681	834	41.3	.0681	834
500	1.70	50	10	.0271	328	32.6	.0271	328	500	1.70	50	10	.0596	736	33.3	.0596	736
600	1.42	20	30	.0221	370	37.6	.0221	370	600	1.42	20	30	.0595	829	31.3	.0595	829
750	1.13	50	15	.0235	359	27.5	.0235	359	750	1.13	50	15	.0513	805	28.2	.0513	805
1000	.850	50	20	.0198	372	25.3	.0198	372	1000	.850	50	20	.0433	834	26.0	.0433	834
1200	.708	40	30	.0200	370	20.8	.0200	370	1200	.708	40	30	.0429	829	21.7	.0429	829
1500	.567	50	30	.0181	370	18.4	.0181	370	1500	.567	50	30	.0392	829	19.0	.0392	829
1800	.472	60	30	.0168	370	16.5	.0168	370	1800	.472	60	30	.0365	829	17.0	.0365	829
2000	.425	50	40	.0150	365	16.4	.0150	365	2000	.425	50	40	.0331	830	16.9	.0331	830
2400	.354	60	40	.0139	365	14.8	.0139	365	2400	.354	60	40	.0307	830	15.2	.0307	830
3000	.283	60	50	.0115	312	12.2	.0115	312	3000	.283	60	50	.0253	708	12.6	.0253	708
3600	.236	60	60	.0091	253	10.4	.0091	253	3600	.236	60	60	.0201	573	10.7	.0201	573

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 1301 AND 1304 225 LBS. AT CENTER POINT OF SHAFT EXTENSION.
MODELS 1801 AND 1804 400 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 1802, 1803, 1805, AND 1806 NOT APPLICABLE.
MODELS 1809 AND 1810 300 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 450 LBS.

*OHL and Thrust values shown are independent functions and cannot be applied simultaneously. Refer applications with combined OHL and Thrust to Hub City Customer Service Department.

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

HUB CITY DOUBLE REDUCTION WORM GEAR DRIVES

Series 2100 & 2600 Ratings

FOR MOTOR SELECTION
REFER TO SECTION H

1750 RPM INPUT SPEED (HIGH SPEED SHAFT)

SERIES 2100 MECHANICAL RATING							SERIES 2100 THERMAL		SERIES 2600 MECHANICAL RATING							SERIES 2600 THERMAL RATING			
		Ratio Combination		SERVICE FACTOR 1.00			DESIGN OPTION Basic Unit				Ratio Combination		SERVICE FACTOR 1.00			DESIGN OPTION Basic Unit		With Synthetic Lube	
RATIO	Output R.P.M.	Primary	Secondary	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	RATIO	Output R.P.M.	Primary	Secondary	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque
50	35.0	5	10	.769	1050	75.8	.769	1050	50	35.0	5	10	1.10	1580	79.6	1.01	1454	1.10	1580
75	23.3	5	15	.593	1120	69.9	.593	1120	75	23.3	5	15	1.02	2020	73.0	1.01	2000	1.02	2020
100	17.5	5	20	.503	1220	67.2	.503	1220	100	17.5	5	20	.899	2300	71.0	.899	2300		
150	11.7	10	15	.364	1190	60.5	.364	1190	150	11.7	10	15	.625	2160	64.0	.625	2160		
200	8.75	10	20	.287	1190	57.5	.287	1190	200	8.75	10	20	.551	2450	61.7	.551	2450		
250	7.00	5	50	.210	934	49.3	.210	934	250	7.00	5	50	.350	1780	56.5	.350	1780		
300	5.83	20	15	.224	1220	50.5	.224	1220	300	5.83	20	15	.383	2230	53.9	.383	2230		
400	4.38	20	20	.173	1190	47.8	.173	1190	400	4.38	20	20	.337	2510	51.7	.337	2510		
500	3.50	50	10	.167	1190	39.7	.167	1190	500	3.50	50	10	.224	1770	44.0	.224	1770		
600	2.92	20	30	.156	1250	37.1	.156	1250	600	2.92	20	30	.260	2290	40.7	.260	2290		
750	2.33	50	15	.134	1220	33.7	.134	1220	750	2.33	50	15	.224	2200	36.4	.224	2200		
1000	1.75	50	20	.105	1190	31.6	.105	1190	1000	1.75	50	20	.199	2510	35.0	.199	2510		
1200	1.46	40	30	.106	1250	27.2	.106	1250	1200	1.46	40	30	.177	2290	30.0	.177	2290		
1500	1.17	50	30	.0985	1250	23.5	.0985	1250	1500	1.17	50	30	.168	2370	26.1	.168	2370		
1800	.972	60	30	.0936	1250	20.6	.0936	1250	1800	.972	60	30	.154	2290	23.0	.154	2290		
2000	.875	50	40	.0771	1200	21.6	.0771	1200	2000	.875	50	40	.132	2380	25.1	.132	2380		
2400	.729	60	40	.0731	1200	19.0	.0731	1200	2400	.729	60	40	.125	2380	22.1	.125	2380		
3000	.583	60	50	.0509	934	17.0	.0509	934	3000	.583	60	50	.0788	1780	20.9	.0788	1780		
3600	.486	60	60	.0425	761	13.8	.0425	761	3600	.486	60	60	.0776	1500	14.9	.0776	1500		

NOT REQUIRED

1150 RPM INPUT SPEED (HIGH SPEED SHAFT)

RATIO	Output R.P.M.	Primary	Secondary	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	RATIO	Output R.P.M.	Primary	Secondary	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque
50	23.0	5	10	.555	1100	72.3	.555	1100	50	23.0	5	10	.845	1790	76.8	.845	1790		
75	15.3	5	15	.432	1170	65.9	.432	1170	75	15.3	5	15	.753	2150	69.3	.753	2150		
100	11.5	5	20	.345	1190	62.9	.345	1190	100	11.5	5	20	.656	2410	67.0	.656	2410		
150	7.67	10	15	.260	1200	56.1	.260	1200	150	7.67	10	15	.452	2220	59.7	.452	2220		
200	5.75	10	20	.204	1190	53.2	.204	1190	200	5.75	10	20	.397	2500	57.4	.397	2500		
250	4.60	5	50	.154	934	44.3	.154	934	250	4.60	5	50	.252	1780	56.1	.252	1780		
300	3.83	20	15	.167	1280	46.8	.167	1280	300	3.83	20	15	.272	2230	49.9	.272	2230		
400	2.88	20	20	.123	1190	44.0	.123	1190	400	2.88	20	20	.250	2640	48.2	.250	2640		
500	2.30	50	10	.116	1150	36.1	.116	1150	500	2.30	50	10	.210	2320	40.3	.210	2320		
600	1.92	20	30	.114	1250	33.4	.114	1250	600	1.92	20	30	.189	2290	36.8	.189	2290		
750	1.53	50	15	.100	1220	29.6	.100	1220	750	1.53	50	15	.168	2280	33.0	.168	2280		
1000	1.15	50	20	.0770	1190	28.2	.0770	1190	1000	1.15	50	20	.144	2510	31.7	.144	2510		
1200	.958	40	30	.0802	1250	23.7	.0802	1250	1200	.958	40	30	.132	2290	26.4	.132	2290		
1500	.767	50	30	.0742	1250	20.5	.0742	1250	1500	.767	50	30	.121	2290	23.0	.121	2290		
1800	.639	60	30	.0700	1250	18.1	.0700	1250	1800	.639	60	30	.114	2290	20.3	.114	2290		
2000	.575	50	40	.0573	1200	19.1	.0573	1200	2000	.575	50	40	.0987	2380	22.0	.0987	2380		
2400	.479	60	40	.0540	1200	16.9	.0540	1200	2400	.479	60	40	.0928	2380	19.5	.0928	2380		
3000	.383	60	50	.0386	934	14.7	.0386	934	3000	.383	60	50	.0570	1780	19.0	.0570	1780		
3600	.319	60	60	.0324	761	11.9	.0324	761	3600	.319	60	60	.0589	1500	12.9	.0589	1500		

NOT REQUIRED

850 RPM INPUT SPEED (HIGH SPEED SHAFT)

RATIO	Output R.P.M.	Primary	Secondary	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	RATIO	Output R.P.M.	Primary	Secondary	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque
50	17.0	5	10	.433	1120	69.8	.433	1120	50	17.0	5	10	.677	1870	74.5	.677	1870		
75	11.3	5	15	.340	1190	62.9	.340	1190	75	11.3	5	15	.544	2160	66.5	.544	2160		
100	8.5	5	20	.269	1190	59.7	.269	1190	100	8.5	5	20	.515	2450	64.2	.515	2450		
150	5.67	10	15	.206	1220	53.2	.206	1220	150	5.67	10	15	.353	2230	56.8	.353	2230		
200	4.25	10	20	.160	1190	50.3	.160	1190	200	4.25	10	20	.311	2510	54.4	.311	2510		
250	3.40	5	50	.123	934	40.9	.123	934	250	3.40	5	50	.198	1780	48.4	.198	1780		
300	2.83	20	15	.124	1220	44.1	.124	1220	300	2.83	20	15	.213	2230	47.0	.213	2230		
400	2.12	20	20	.0976	1190	41.1	.0976	1190	400	2.12	20	20	.187	2510	45.3	.187	2510		
500	1.70	50	10	.0928	1152	33.5	.0928	1152	500	1.70	50	10	.170	2380	37.7	.170	2380		
600	1.42	20	30	.0909	1250	30.9	.0909	1250	600	1.42	20	30	.151	2290	34.0	.151	2290		
750	1.13	50	15	.0819	1220	26.8	.0819	1220	750	1.13	50	15	.131	2230	30.5	.131	2230		
1000	.850	50	20	.0617	1190	26.0	.0617	1190	1000	.850	50	20	.117	2510	29.0	.117	2510		
1200	.708	40	30	.0653	1250	21.5	.0653	1250	1200	.708	40	30	.107	2290	24.1	.107	2290		
1500	.567	50	30	.0601	1250	18.7	.0601	1250	1500	.567	50	30	.0985	2290	20.9	.0985	2290		
1800	.472	60	30	.0561	1250	16.7	.0561	1250	1800	.472	60	30	.0927	2290	18.5	.0927	2290		
2000	.425	50	40	.0465	1200	17.4	.0465	1200	2000	.425	50	40	.0798	2380	20.1	.0798	2380		
2400	.354	60	40	.0438	1200	15.4	.0438	1200	2400	.354	60	40	.0747	2380	17.9	.0747	2380		
3000	.283	60	50	.0311	934	13.5	.0311	934	3000	.283	60	50	.0473	1780	16.9	.0473	1780		
3600	.236	60	60	.0264	761	10.8	.0264	761	3600	.236	60	60	.0484	1500	11.6	.0484	1500		

NOT REQUIRED

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 2101 AND 2104 550 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 2102, 2103, 2105, AND 2106 NOT APPLICABLE.
MODELS 2109 AND 2110 500 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 600 LBS.
MODELS 2601 AND 2604 850 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 2602, 2603, 2605, AND 2606 NOT APPLICABLE.
MODELS 2609 AND 2610 750 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 900 LBS.

*OHL and Thrust values shown are independent functions and cannot be applied simultaneously. Refer applications with combined OHL and Thrust to Hub City Customer Service Department.

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FAX: (605) 225-0567

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FOR MOTOR SELECTION
REFER TO SECTION H

Series 3200 & 3800 Ratings

1750 RPM INPUT SPEED (HIGH SPEED SHAFT)

SERIES 3200 MECHANICAL RATING							SERIES 3200 THERMAL RATING				SERIES 3800 MECHANICAL RATING							SERIES 3800 THERMAL RATING			
RATIO	Output R.P.M.	Ratio Combination Pri- mary	Sec- ondary	SERVICE FACT. 1.00 Input H.P.	Output Torque	Eff. %	DESIGN OPTION Basic Unit Input H.P.	Output Torque	With Synthetic Lube Input H.P.	Output Torque	RATIO	Output R.P.M.	Ratio Combination Pri- mary	Sec- ondary	SERVICE FACT. 1.00 Input H.P.	Output Torque	Eff. %	DESIGN OPTION Basic Unit Input H.P.	Output Torque	With Synthetic Lube Input H.P.	Output Torque
50	35.0	5	10	3.02	4250	78.1	2.26	3180	2.60	3657	50	35.0	5	10	3.02	4320	79.4	2.26	3233	2.60	3719
75	23.3	5	15	2.34	4650	73.7	1.75	3488	2.01	4011	75	23.3	5	15	3.02	6130	75.2	2.26	4587	2.60	5277
100	17.5	5	20	1.89	4780	70.3	1.53	3872	1.76	4453	100	17.5	5	20	2.80	7350	72.9	2.13	5586	2.45	6424
150	11.7	10	15	1.50	5300	65.5	1.40	4954	1.50	5300	150	11.7	10	15	2.01	7310	67.3	1.40	5092	1.61	5855
200	8.75	10	20	1.09	4840	61.6	1.09	4840	NOT		200	8.75	10	20	1.59	7350	64.4	1.40	6468	1.59	7350
250	7.00	5	50	.775	3740	53.6	.775	3740			250	7.00	5	50	1.08	5620	57.6	1.08	5620	NOT REQ.	
300	5.83	20	15	.884	5280	55.3	.884	5280	REQUIRED		300	5.83	20	15	1.31	8080	57.1	.917	5656	1.05	6504
400	4.38	20	20	.657	4840	51.1	.657	4840			400	4.38	20	20	.945	7350	54.0	.917	7130	.945	7350
500	3.50	50	10	.629	4980	44.0	.514	4070	.591	4679	500	3.50	50	10	.673	5530	45.6	.514	4224	.591	4857
600	2.92	20	30	.586	5420	42.8	.586	5420			600	2.92	20	30	.895	8720	45.1	.895	8720	NOT REQ.	
750	2.33	50	15	.503	5280	38.9	.503	5280			750	2.33	50	15	.673	7380	40.6	.514	5636	.591	6480
1000	1.75	50	20	.381	4840	35.3	.381	4840			1000	1.75	50	20	.537	7350	38.0	.514	7035	.537	7350
1200	1.46	40	30	.403	5420	31.1	.403	5420	NOT		1200	1.46	40	30	.611	8720	33.0	.567	8092	.611	8720
1500	1.17	50	30	.352	5420	28.5	.352	5420			1500	1.17	50	30	.531	8720	30.4	.514	8440	.531	8720
1800	.972	60	30	.345	5420	24.2	.345	5420			1800	.972	60	30	.521	8720	25.8	.440	7364	.506	8469
2000	.875	50	40	.273	4880	24.8	.273	4880	REQUIRED		2000	.875	50	40	.377	7460	27.5	.377	7460	NOT	
2400	.729	60	40	.270	4880	20.9	.270	4880			2400	.729	60	40	.372	7460	23.2	.372	7460		
3000	.583	60	50	.188	3740	18.4	.188	3740			3000	.583	60	50	.250	5620	20.8	.250	5620	REQUIRED	
3600	.486	60	60	.142	3030	16.5	.142	3030			3600	.486	60	60	.186	4540	18.8	.186	4540		

1150 RPM INPUT SPEED (HIGH SPEED SHAFT)

50	23.0	5	10	2.22	4660	76.5	2.02	4240	2.22	4660	50	23.0	5	10	2.40	5130	78.1	2.02	4309	2.32	4959
75	15.3	5	15	1.68	4950	71.6	1.63	4802	1.68	4950	75	15.3	5	15	2.40	7250	73.4	2.02	6102	2.32	7008
100	11.5	5	20	1.31	4840	67.6	1.31	4840			100	11.5	5	20	1.90	7350	70.6	1.90	7350	NOT REQ.	
150	7.67	10	15	1.02	5240	62.7	1.02	5240			150	7.67	10	15	1.59	8430	64.6	1.29	6839	1.51	8006
200	5.75	10	20	.757	4840	58.3	.757	4840			200	5.75	10	20	1.09	7350	61.4	1.09	7350	NOT	
250	4.60	5	50	.550	3740	49.6	.550	3740	N		250	4.60	5	50	.762	5620	53.8	.762	5620	REQUIRED	
300	3.83	20	15	.611	5280	52.6	.611	5280	O		300	3.83	20	15	.945	8500	54.7	.853	7672	.945	8500
400	2.88	20	20	.456	4840	48.4	.456	4840	T		400	2.88	20	20	.652	7350	51.4	.652	7350	NOT REQ.	
500	2.30	50	10	.426	4980	42.7	.426	4980	R		500	2.30	50	10	.533	6480	44.4	.501	5962	.533	6480
600	1.92	20	30	.415	5420	39.7	.415	5420	E		600	1.92	20	30	.631	8720	42.0	.631	8720		
750	1.53	50	15	.343	5280	37.5	.343	5280	Q		750	1.53	50	15	.530	8500	39.0	.530	8500		
1000	1.15	50	20	.262	4840	33.7	.262	4840	U		1000	1.15	50	20	.367	7350	36.5	.367	7350		
1200	.958	40	30	.283	5420	29.1	.283	5420	I		1200	.958	40	30	.426	8720	31.1	.426	8720	NOT	
1500	.767	50	30	.253	5600	26.9	.253	5600	R		1500	.767	50	30	.368	8720	28.8	.368	8720		
1800	.639	60	30	.250	5690	23.1	.250	5690	E		1800	.639	60	30	.356	8720	24.8	.356	8720		
2000	.575	50	40	.192	4880	23.2	.192	4880	D		2000	.575	50	40	.265	7460	25.7	.265	7460	REQUIRED	
2400	.479	60	40	.186	4880	19.9	.186	4880			2400	.479	60	40	.257	7460	22.1	.257	7460		
3000	.383	60	50	.131	3740	17.3	.131	3740			3000	.383	60	50	.174	5620	19.7	.174	5620		
3600	.319	60	60	.0991	3030	15.5	.0991	3030			3600	.319	60	60	.130	4540	17.7	.130	4540		

850 RPM INPUT SPEED (HIGH SPEED SHAFT)

50	17.0	5	10	1.74	4810	74.6	1.74	4810			50	17.0	5	10	2.02	5730	76.5	2.02	5730		
75	11.3	5	15	1.32	5100	69.4	1.32	5100			75	11.3	5	15	2.02	8000	71.3	2.02	8000		
100	8.5	5	20	1.00	4840	65.2	1.00	4840			100	8.5	5	20	1.51	7650	68.3	1.51	7650		
150	5.67	10	15	.790	5280	60.1	.790	5280			150	5.67	10	15	1.23	8500	62.1	1.23	8500		
200	4.25	10	20	.588	4840	55.5	.588	4840			200	4.25	10	20	.843	7350	58.8	.843	7350		
250	3.40	5	50	.435	3740	46.4	.435	3740	N		250	3.40	5	50	.598	5620	50.7	.598	5620	N	
300	2.83	20	15	.500	5530	49.8	.500	5530	O		300	2.83	20	15	.752	8680	51.9	.752	8680	O	
400	2.12	20	20	.359	4840	45.4	.359	4840	T		400	2.12	20	20	.509	7350	48.7	.509	7350	T	
500	1.70	50	10	.338	4980	39.8	.338	4980	R		500	1.70	50	10	.410	6310	41.5	.410	6310	R	
600	1.42	20	30	.338	5550	36.9	.338	5550	E		600	1.42	20	30	.500	8720	39.2	.500	8720	E	
750	1.13	50	15	.273	5280	34.8	.273	5280	Q		750	1.13	50	15	.420	8500	36.4	.420	8500	Q	
1000	.850	50	20	.209	4840	31.2	.209	4840	U		1000	.850	50	20	.293	7350	33.8	.293	7350	U	
1200	.708	40	30	.224	5420	27.2	.224	5420	I		1200	.708	40	30	.336	8720	29.2	.336	8720	I	
1500	.567	50	30	.199	5420	24.5	.199	5420	R		1500	.567	50	30	.298	8720	26.3	.298	8720	R	
1800	.472	60	30	.193	5420	21.0	.193	5420	E		1800	.472	60	30	.290	8720	22.5	.290	8720	E	
2000	.425	50	40	.156	4880	21.1	.156	4880	D		2000	.425	50	40	.214	7460	23.5	.214	7460	D	
2400	.354	60	40	.152	4880	18.0	.152	4880			2400	.354	60	40	.209	7460	20.1	.209	7460		
3000	.283	60	50	.107	3740	15.7	.107	3740			3000	.283	60	50	.141	5620	17.9	.141	5620		
3600	.236	60	60	.0811	3030	14.0	.0811	3030			3600	.236	60	60	.106	4540	16.1	.106	4540		

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 3201 AND 3204 1,100 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 3202, 3203, 3205, AND 3206 NOT APPLICABLE.
MODELS 3207 AND 3208 — OHL* 1,280 LBS., TO* THRUST OUT 1,700 LBS. AND TI* THRUST IN 1,210 LBS.
MODELS 3209 AND 3210 1,050 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 1,200 LBS.
MODELS 3801 AND 3804 1,600 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 3802, 3803, 3805, AND 3806 NOT APPLICABLE.
MODELS 3807 AND 3808 — OHL* 1,970 LBS., TO* THRUST OUT 1,950 LBS. AND TI* THRUST IN 1,500 LBS.
MODELS 3809 AND 3810 1,600 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 1,500 LBS.

*OHL and Thrust values shown are independent functions & cannot be applied simultaneously. Refer applications with combined OHL and Thrust to Hub City Customer Service Department. Thermal capacity can be improved on some applications with the addition of a fan on the primary unit. Consult Hub City Customer Service for specifics.

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HUB CITY DOUBLE REDUCTION WORM GEAR DRIVES

Series 4500 & 5200 Ratings

FOR MOTOR SELECTION
REFER TO SECTION H

SERIES 4500 MECHANICAL RATING							SERIES 4500 THERMAL RATING			
RATIO	Output R.P.M.	Ratio Combination Pri-mary	Sec-ondary	SERVICE FACT. 1.00 Input H.P.	Output Torque	Eff. %	DESIGN OPTION Basic Unit Input H.P.	Basic Unit Output Torque	With Synthetic Lube Input H.P.	With Synthetic Lube Output Torque
1750 RPM INPUT SPEED (HIGH SPEED SHAFT)										
50	35.0	5	10	7.55	10930	80.4	5.02	7267	5.65	8174
75	23.3	5	15	5.50	11380	76.6	3.57	7387	4.11	8495
100	17.5	5	20	4.45	11960	74.6	3.11	8359	3.58	9612
150	11.7	10	15	3.40	12710	69.1	3.16	11813	3.40	12710
200	8.75	10	20	2.58	12340	66.5	2.58	12340		
250	7.00	5	50	1.77	9570	59.9	1.77	9570		
300	5.83	20	15	2.11	13290	58.3	2.11	13290		
400	4.38	20	20	1.54	12340	55.6	1.54	12340		
500	3.50	50	10	1.54	12530	45.1	1.54	12530		
600	2.92	20	30	1.34	13620	46.9	1.34	13620		
750	2.33	50	15	1.22	13290	40.4	1.22	13290		
1000	1.75	50	20	.895	12340	38.3	.895	12340		
1200	1.46	40	30	.921	13620	34.2	.921	13620		
1500	1.17	50	30	.819	13620	30.8	.819	13620		
1800	.972	60	30	.753	13710	28.1	.753	13710		
2000	.875	50	40	.619	12570	28.2	.619	12570		
2400	.729	60	40	.564	12570	25.8	.564	12570		
3000	.583	60	50	.390	9570	22.7	.390	9570		
3600	.486	60	60	.277	7610	21.2	.277	7610		
1150 RPM INPUT SPEED (HIGH SPEED SHAFT)										
50	23.0	5	10	5.23	11460	79.9	4.18	9159	4.81	10540
75	15.3	5	15	3.95	12280	75.6	3.12	9701	3.59	11160
100	11.5	5	20	3.08	12340	73.0	2.77	11110	3.08	12340
150	7.67	10	15	2.38	13160	67.2	2.38	13160		
200	5.75	10	20	1.75	12340	64.3	1.75	12340		
250	4.60	5	50	1.22	9570	57.2	1.22	9570		
300	3.83	20	15	1.42	13290	57.0	1.42	13290		
400	2.88	20	20	1.04	12340	54.0	1.04	12340		
500	2.30	50	10	1.02	12860	46.0	1.02	12860		
600	1.92	20	30	.931	13620	44.5	.931	13620		
750	1.53	50	15	.789	13290	41.0	.789	13290		
1000	1.15	50	20	.582	12340	38.7	.582	12340		
1200	.958	40	30	.626	13620	33.1	.626	13620		
1500	.767	50	30	.545	13620	30.4	.545	13620		
1800	.639	60	30	.504	13780	27.7	.504	13780		
2000	.575	50	40	.410	12570	28.0	.410	12570		
2400	.479	60	40	.376	12570	25.4	.376	12570		
3000	.383	60	50	.267	9570	21.8	.267	9570		
3600	.319	60	60	.185	7610	20.8	.185	7610		
850 RPM INPUT SPEED (HIGH SPEED SHAFT)										
50	17.0	5	10	4.10	12000	78.9	3.81	11160	4.10	12000
75	11.3	5	15	3.09	12740	74.1	3.00	12370	3.09	12740
100	8.5	5	20	2.33	12340	71.4	2.33	12340		
150	5.67	10	15	1.83	13290	65.3	1.83	13290		
200	4.25	10	20	1.34	12340	62.2	1.34	12340		
250	3.40	5	50	.951	9570	54.3	.951	9570		
300	2.83	20	15	1.08	13290	55.3	1.08	13290		
400	2.12	20	20	.793	12340	52.5	.793	12340		
500	1.70	50	10	.761	12530	44.4	.761	12340		
600	1.42	20	30	.750	14210	42.6	.750	14210		
750	1.13	50	15	.608	13290	39.3	.608	13290		
1000	.850	50	20	.451	12340	36.9	.451	12340		
1200	.708	40	30	.500	14280	32.1	.500	14280		
1500	.567	50	30	.427	13620	28.7	.427	13620		
1800	.472	60	30	.391	13620	26.1	.391	13620		
2000	.425	50	40	.335	13120	26.4	.335	13120		
2400	.354	60	40	.297	12570	23.8	.297	12570		
3000	.283	60	50	.209	9570	20.6	.209	9570		
3600	.236	60	60	.147	7610	19.4	.147	7610		

NOT REQUIRED

SERIES 5200 MECHANICAL RATING							SERIES 5200 THERMAL RATING			
RATIO	Output R.P.M.	Ratio Combination Pri-mary	Sec-ondary	SERVICE FACT. 1.00 Input H.P.	Output Torque	Eff. %	DESIGN OPTION Basic Unit Input H.P.	Basic Unit Output Torque	With Synthetic Lube Input H.P.	With Synthetic Lube Output Torque
1750 RPM INPUT SPEED (HIGH SPEED SHAFT)										
50	35.0	5	10	10.2	15950	86.8	5.77	9022	6.64	10380
75	23.3	5	15	7.83	16500	78.0	5.01	10560	5.76	12140
100	17.5	5	20	6.33	17400	76.3	4.43	12180	5.09	14010
150	11.7	10	15	5.02	19190	70.7	3.31	12650	3.81	14550
200	8.75	10	20	3.66	18080	68.5	3.31	16350	3.66	18080
250	7.00	5	50	2.40	13610	63.0	2.40	13610	NOT REQ.	
300	5.83	20	15	3.03	19690	60.2	2.12	13790	2.44	15860
400	4.38	20	20	2.18	18080	57.7	2.12	17580	2.18	18080
500	3.50	50	10	2.20	18310	46.3	1.12	9340	1.29	10740
600	2.92	20	30	1.87	19980	49.4	1.87	19980	NOT REQ.	
750	2.33	50	15	1.71	19430	42.1	1.12	12730	1.29	14640
1000	1.75	50	20	1.26	18080	40.0	1.12	16070	1.26	18080
1200	1.46	40	30	1.28	19980	36.2	1.27	19820	1.28	19980
1500	1.17	50	30	1.13	19980	32.7	1.12	19800	1.13	19980
1800	.972	60	30	1.03	19980	29.9	1.01	19590	1.03	19980
2000	.875	50	40	.822	17870	30.2	.822	17870		
2400	.729	60	40	.754	17990	27.6	.754	17990	NOT	
3000	.583	60	50	.503	13750	25.3	.503	13750	REQUIRED	
3600	.486	60	60	.360	10830	23.2	.360	10830		
1150 RPM INPUT SPEED (HIGH SPEED SHAFT)										
50	23.0	5	10	7.56	16820	81.2	5.00	11120	5.75	12790
75	15.3	5	15	5.63	17890	77.3	4.39	13950	5.05	16040
100	11.5	5	20	4.40	18080	75.0	3.87	15910	4.40	18080
150	7.67	10	15	3.39	19260	69.2	3.01	17100	3.39	19260
200	5.75	10	20	2.46	18080	67.1	2.46	18080	NOT	
250	4.60	5	50	1.65	13610	60.1	1.65	13610	REQUIRED	
300	3.83	20	15	2.00	19430	59.0	1.88	18260	2.00	19430
400	2.88	20	20	1.51	18700	56.4	1.51	18700	NOT REQ.	
500	2.30	50	10	1.41	18310	47.5	1.03	13380	1.18	15390
600	1.92	20	30	1.29	19980	47.2	1.29	19980	NOT REQ.	
750	1.53	50	15	1.11	19430	42.6	1.03	18030	1.11	19430
1000	1.15	50	20	.815	18080	40.5	.815	18080		
1200	.958	40	30	.863	19980	35.2	.863	19980		
1500	.767	50	30	.754	20140	32.5	.754	20140	NOT	
1800	.639	60	30	.684	19980	29.6	.684	19980		
2000	.575	50	40	.543	17870	30.0	.543	17870	REQUIRED	
2400	.479	60	40	.505	18080	27.2	.505	18080		
3000	.383	60	50	.340	13980	25.0	.340	13980		
3600	.319	60	60	.250	11230	22.8	.250	11230		
850 RPM INPUT SPEED (HIGH SPEED SHAFT)										
50	17.0	5	10	5.89	17500	80.2	4.55	13520	5.23	15550
75	11.3	5	15	4.43	18680	75.9	4.03	17000	4.43	18680
100	8.5	5	20	3.32	18080	73.5	3.32	18080		
150	5.67	10	15	2.59	19430	67.4	2.59	19430		
200	4.25	10	20	1.88	18080	64.7	1.88	18080		
250	3.40	5	50	1.27	13610	57.6	1.27	13610		
300	2.83	20	15	1.52	19430	57.6	1.52	19430		
400	2.12	20	20	1.11	18080	54.7	1.11	18080		
500	1.70	50	10	1.12	18310	44.1	1.12	18310		
600	1.42	20	30	1.02	20500	45.2	1.02	20500		
750	1.13	50	15	.854	19430	40.9	.854	19430		
1000	.850	50	20	.628	18080	38.8	.628	18080		
1200	.708	40	30	.657	19980	34.2	.657	19980		
1500	.567	50	30	.585	19980	30.7	.585	19980		
1800	.472	60	30	.538	19980	27.8	.538	19980		
2000	.425	50	40	.426	17870	28.3	.426	17870		
2400	.354	60	40	.392	17870	25.6	.392	17870		
3000	.283	60	50	.263	13610	23.3	.263	13610		
3600	.236	60	60	.190	10830	21.3	.190	10830		

NOT REQUIRED

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 4501 AND 4504 2,200 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 4502, 4503, 4505, AND 4506 NOT APPLICABLE.
MODELS 4507 AND 4508 — OHL* 2,370 LBS., TO* THRUST OUT 3,330 LBS. AND TI* THRUST IN 3,140 LBS.
MODELS 4509 AND 4510 2,000 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 2,500 LBS.
MODELS 5201 AND 5204 2,600 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 5202, 5203, 5205, AND 5206 NOT APPLICABLE.
MODELS 5207 AND 5208 — OHL* 3,550 LBS., TO* THRUST OUT 4,530 LBS. AND TI* THRUST IN 3,360 LBS.
MODELS 5209 AND 5210 2,300 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 3,000 LBS.

*OHL and Thrust values shown are independent functions & cannot be applied simultaneously. Refer applications with combined OHL and Thrust to Hub City Customer Service Department. Thermal capacity can be improved on some applications with the addition of a fan on the primary unit. Consult Hub City Customer Service for specifics.

CALL: (605) 225-0360

HUB CITY

FAX: (605) 225-0567

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FOR MOTOR SELECTION
REFER TO SECTION H

Series 60D Ratings

SERIES 60D MECHANICAL RATING							SERIES 60D THERMAL RATING			
				SERVICE FACT.			DESIGN OPTION			
		Ratio Combination		1.00			Basic Unit		With Synthetic Lube	
RATIO	Output R.P.M.	Pri-mary	Sec-ondary	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque
1750 RPM INPUT SPEED (HIGH SPEED SHAFT)										
50	35.0	5	10	11.1	16270	81.4	5.77	8458	6.64	9727
100	17.5	5	20	8.69	23583	75.4	5.39	14630	6.20	16820
150	11.7	5	30	6.16	22869	68.7	3.77	14000	4.34	16100
200	8.75	10	20	5.46	26783	68.1	3.31	16240	3.81	18680
250	7.00	5	50	4.00	22124	61.5	2.83	15700	3.25	18050
300	5.83	20	30	4.01	26276	60.7	3.36	22070	3.86	25380
400	4.38	10	40	3.25	26665	57.0	3.01	24720	3.25	26665
500	3.50	25	20	2.76	28115	56.5	1.83	18620	2.10	21410
600	2.92	20	30	2.45	27727	52.3	2.12	23960	2.44	27550
750	2.33	25	30	2.08	27727	49.3	1.83	24370	2.08	27727
1000	1.75	25	40	1.70	27990	45.7	1.70	27990	NOT REQ.	
1200	1.46	30	40	1.57	27990	41.2	1.51	26890	1.57	27990
1500	1.17	50	30	1.37	27727	37.5	1.12	22690	1.29	26090
1800	.972	60	30	1.23	27727	34.8	1.01	22780	1.16	26200
2000	.875	50	40	1.13	27990	34.5	1.12	27830	1.13	27990
2400	.729	60	40	1.01	27990	32.1	1.01	27990	NOT	
3000	.583	60	50	.689	22124	29.7	.689	22124	REQUIRED	
3600	.486	60	60	.500	17892	27.6	.500	17892		
1150 RPM INPUT SPEED (HIGH SPEED SHAFT)										
50	23.0	5	10	9.02	20021	81.0	5.00	11100	5.75	12760
100	11.5	5	20	6.31	25664	74.2	4.66	18940	5.36	21780
150	7.67	5	30	4.58	25115	66.7	3.29	18030	3.78	20730
200	5.75	10	20	3.75	27819	67.7	3.01	22340	3.46	25690
250	4.60	5	50	2.74	22124	59.0	2.52	20360	2.74	22124
300	3.83	10	30	2.78	27388	59.9	2.78	27388	NOT REQ.	
400	2.88	10	40	2.26	27695	55.8	2.26	27695	NOT REQ.	
500	2.30	25	20	1.80	28115	57.0	1.66	25928	1.80	28115
600	1.92	20	30	1.63	27727	51.8	1.63	27727		
750	1.53	25	30	1.37	27727	49.1	1.37	27727		
1000	1.15	25	40	1.12	27990	45.6	1.12	27990		
1200	.958	30	40	1.03	27990	41.4	1.03	27990		
1500	.767	50	30	.881	27727	38.3	.881	27727	NOT	
1800	.639	60	30	.796	27727	35.3	.796	27727		
2000	.575	50	40	.750	28937	35.2	.750	28937	REQUIRED	
2400	.479	60	40	.655	27990	32.5	.655	27990		
3000	.383	60	50	.447	22124	30.1	.447	22124		
3600	.319	60	60	.333	18396	28.0	.333	18396		
850 RPM INPUT SPEED (HIGH SPEED SHAFT)										
50	17.0	5	10	7.87	23517	80.6	4.55	13600	5.23	15640
100	8.5	5	20	5.01	27266	73.4	4.29	23360	4.93	26860
150	5.67	5	30	3.61	26276	65.4	3.03	22070	3.48	25380
200	4.25	10	20	2.83	28115	67.0	2.82	28020	2.83	28115
250	3.40	5	50	2.07	22124	57.7	2.07	22124		
300	2.83	10	30	2.12	27727	58.8	2.12	27727		
400	2.12	10	40	1.73	27990	54.6	1.73	27990	NOT REQUIRED	
500	1.70	25	20	1.35	28115	56.2	1.35	28115		
600	1.42	20	30	1.22	27727	51.0	1.22	27727		
750	1.13	25	30	1.04	27727	48.1	1.04	27727		
1000	.850	25	40	.850	27990	44.4	.850	27990		
1200	.708	30	40	.773	27990	40.7	.723	27990		
1500	.567	50	30	.683	27727	37.6	.683	27727		
1800	.472	60	30	.594	27727	35.0	.594	27727		
2000	.425	50	40	.547	27990	34.5	.547	27990		
2400	.354	60	40	.500	28650	32.2	.500	28650		
3000	.283	60	50	.337	22124	29.5	.337	22124		
3600	.236	60	60	.250	18285	27.4	.250	18285		

OVERHUNG LOAD - LOW SPEED SHAFT —MODELS 6001 AND 6004 4,000 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 6002, 6003, 6005, AND 6006 NOT APPLICABLE.
MODELS 6007 AND 6008 — OHL* 5,200 LBS., TO* THRUST OUT 5,900 LBS. AND TI* THRUST IN 3,400 LBS.
MODELS 6009 AND 6010 3,800 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 3,400 LBS.

*OHL and Thrust values shown are independent functions and cannot be applied simultaneously. Refer applications with combined OHL and Thrust to Hub City Customer Service Department.

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Series 70D, Ratings

FOR MOTOR SELECTION
REFER TO SECTION H

SERIES 70D MECHANICAL RATING							SERIES 70D THERMAL RATING			
				SERVICE FACT.			DESIGN OPTION			
		Ratio Combination		1.00			Basic Unit		With Synthetic Lube	
RATIO	Output R.P.M.	Primary	Secondary	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque
1750 RPM INPUT SPEED (HIGH SPEED SHAFT)										
50	35.0	5	10	17.2	25521	82.4	8.09	12000	9.30	13800
100	17.5	5	20	11.97	33069	76.7	7.57	20920	8.71	24060
150	11.7	5	30	8.38	31929	70.5	5.16	19630	5.93	22570
200	8.75	10	20	7.66	38441	69.7	5.01	25150	5.64	28300
250	7.00	5	50	5.76	32729	63.1	3.81	21650	4.38	24900
300	5.83	15	20	5.75	40203	64.7	3.54	24750	4.07	28460
400	4.38	10	40	4.53	38274	58.6	3.84	32430	4.42	37290
500	3.50	10	50	3.50	34785	55.2	3.43	34100	3.50	34785
600	2.92	15	40	3.46	40025	53.6	3.46	40025	NOT REQ.	
750	2.33	15	50	2.56	34785	50.4	2.56	34785	NOT REQ.	
1000	1.75	50	20	2.38	40710	47.5	1.58	27030	1.82	31080
1200	1.46	30	40	2.18	40529	43.1	2.06	38370	2.18	40529
1500	1.17	50	30	1.81	40113	41.0	1.58	35000	1.81	40113
1800	.972	60	30	1.60	40113	38.6	1.42	35530	1.60	40113
2000	.875	50	40	1.51	41194	37.8	1.51	41194		
2400	.729	60	40	1.32	40529	35.5	1.32	40529	NOT	
3000	.583	60	50	1.02	36506	32.9	1.02	36506	REQUIRED	
3600	.486	60	60	.696	27717	30.7	.696	27717		
1150 RPM INPUT SPEED (HIGH SPEED SHAFT)										
50	23.0	5	10	13.8	30970	81.9	6.71	15060	7.72	17320
100	11.5	5	20	8.85	36585	75.4	6.30	26040	7.24	29950
150	7.67	5	30	6.36	35753	68.4	4.45	25020	5.12	28770
200	5.75	10	20	5.28	40203	69.5	4.21	32070	4.84	36880
250	4.60	5	50	4.19	34785	60.6	3.36	27930	3.86	32120
300	3.83	15	20	3.83	40710	64.7	3.07	32660	3.53	37560
400	2.88	10	40	3.17	40025	57.6	3.17	40025		
500	2.30	10	50	2.35	34785	54.1	2.35	34785	NOT	
600	1.92	15	40	2.33	40529	52.9	2.33	40529	REQUIRED	
750	1.53	15	50	1.71	34785	49.5	1.71	34785		
1000	1.15	50	20	1.54	40710	48.3	1.51	39970	1.54	40710
1200	.958	30	40	1.42	40529	43.3	1.42	40529		
1500	.767	50	30	1.18	40113	41.3	1.18	40113	NOT	
1800	.639	60	30	1.04	40113	39.0	1.04	40113		
2000	.575	50	40	1.01	42068	38.0	1.01	42068	REQUIRED	
2400	.479	60	40	.861	40529	35.8	.861	40529		
3000	.383	60	50	.639	34785	33.1	.639	34785		
3600	.319	60	60	.454	27717	30.9	.454	27717		
850 RPM INPUT SPEED (HIGH SPEED SHAFT)										
50	17.0	5	10	11.7	35377	81.4	6.14	18530	7.06	21310
100	8.5	5	20	6.97	38441	74.4	5.72	31560	6.58	36290
150	5.67	5	30	5.08	37669	66.7	3.79	28120	4.36	32340
200	4.25	10	20	4.00	40710	68.6	3.92	39880	4.00	40710
250	3.40	5	50	3.18	34785	59.0	3.12	34110	3.18	34785
300	2.83	15	20	3.00	42709	64.0	3.00	42709		
400	2.12	10	40	2.42	40529	56.4	2.42	40529	N	
500	1.70	10	50	1.78	34785	52.8	1.78	34785	O	
600	1.42	15	40	1.76	40529	51.8	1.76	40529	T	
750	1.13	15	50	1.30	34785	48.2	1.30	34785	R	
1000	.850	50	20	1.15	40710	47.9	1.15	40710	E	
1200	.708	30	40	1.07	40529	42.6	1.07	40529	Q	
1500	.567	50	30	.886	40113	40.7	.886	40113	U	
1800	.472	60	30	.785	40113	38.3	.785	40113	I	
2000	.425	50	40	.756	41817	37.3	.756	41817	R	
2400	.354	60	40	.649	40529	35.1	.649	40529	E	
3000	.283	60	50	.501	36442	32.7	.501	36442	D	
3600	.236	60	60	.343	27717	30.3	.343	27717		

OVERHUNG LOAD - LOW SPEED SHAFT —MODELS 7001 AND 7004 5,500 LBS. AT CENTER POINT OF SHAFT EXTENSION.
MODELS 7007 AND 7008 — OHL* 6,400 LBS., TO* THRUST OUT 7,000 LBS. AND TI* THRUST IN 5,000 LBS.
MODELS 7009 AND 7010 5,500 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 5,000 LBS.

*OHL and Thrust values shown are independent functions and cannot be applied simultaneously. Refer applications with combined OHL and Thrust to Hub City Customer Service Department.

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FOR MOTOR SELECTION
REFER TO SECTION H

Series 80D Ratings

SERIES 80D MECHANICAL RATING							SERIES 80D THERMAL RATING			
				SERVICE FACT.			DESIGN OPTION			
		Ratio Combination		1.00			Basic Unit		With Synthetic Lube	
RATIO	Output R.P.M.	Primary	Secondary	Input H.P.	Output Torque	Eff. %	Input H.P.	Output Torque	Input H.P.	Output Torque
1750 RPM INPUT SPEED (HIGH SPEED SHAFT)										
100	17.5	10	10	16.3	44908	76.5	7.55	20800	8.68	23920
150	11.7	15	10	12.4	47895	71.5	5.35	20670	6.15	23770
200	8.75	10	20	10.4	52384	69.9	7.55	38010	8.68	43710
300	5.83	15	20	7.87	55295	65.0	5.35	37570	6.15	43210
400	4.38	20	20	6.22	56097	62.6	4.53	40850	5.21	46980
500	3.50	10	50	5.12	51217	55.5	4.36	43590	5.01	50130
600	2.92	15	40	5.00	58451	54.1	5.00	58451		
750	2.33	15	50	3.81	52325	50.8	3.81	52325	NOT	
1000	1.75	20	50	3.02	52325	48.1	3.02	52325	REQUIRED	
1200	1.46	30	40	3.02	56644	43.4	3.02	56644		
1500	1.17	50	30	2.50	55257	40.9	2.30	50820	2.50	55257
1800	.972	60	30	2.21	55257	38.6	2.07	51800	2.21	55257
2000	.875	50	40	2.02	55849	38.3	2.02	55849	NOT	
2400	.729	60	40	1.80	55849	36.0	1.80	55849		
3000	.583	60	50	1.50	54129	33.4	1.50	54129	REQUIRED	
3600	.486	60	60	1.04	41905	31.1	1.04	41905		
1150 RPM INPUT SPEED (HIGH SPEED SHAFT)										
100	11.5	10	10	12.1	50977	76.8	6.18	26010	7.11	29910
150	7.67	15	10	8.70	51730	72.3	4.47	26570	5.14	30560
200	5.75	10	20	7.51	57457	69.8	6.18	47280	7.11	54370
300	3.83	15	20	5.25	56097	65.0	4.47	47770	5.14	54940
400	2.88	20	20	4.08	56097	62.7	3.89	53470	4.08	56097
500	2.30	10	50	3.50	52325	54.6	3.50	52325		
600	1.92	15	40	3.19	55849	53.3	3.19	55849		
750	1.53	15	50	2.56	52325	49.8	2.56	52325		
1000	1.15	20	50	2.02	52325	47.3	2.02	52325	NOT	
1200	.958	30	40	1.95	55849	43.6	1.95	55849		
1500	.767	50	30	1.63	55257	41.3	1.63	55257		
1800	.639	60	30	1.50	57857	39.1	1.50	57857	REQUIRED	
2000	.575	50	40	1.32	55849	38.5	1.32	55849		
2400	.479	60	40	1.16	55849	36.5	1.16	55849		
3000	.383	60	50	.944	52325	33.7	.944	52325		
3600	.319	60	60	.676	41905	31.4	.676	41905		
850 RPM INPUT SPEED (HIGH SPEED SHAFT)										
100	8.5	10	10	9.11	51730	76.6	5.66	32150		
150	5.67	15	10	6.36	51730	73.1	4.14	33660		
200	4.25	10	20	5.47	56097	69.2	5.47	56097		
300	2.83	15	20	3.90	56097	64.6	3.90	56097	N	
400	2.12	20	20	3.04	56097	62.2	3.04	56097	O	
500	1.70	10	50	2.65	52325	53.2	2.65	52325	T	
600	1.42	15	40	2.40	55849	52.3	2.40	55849	R	
750	1.13	15	50	2.01	54323	48.6	2.01	54323	E	
1000	.850	20	50	1.52	52325	46.5	1.52	52325	Q	
1200	.708	30	40	1.50	57523	43.1	1.50	57523	U	
1500	.567	50	30	1.22	55257	40.9	1.22	55257	I	
1800	.472	60	30	1.07	55257	38.6	1.07	55257	R	
2000	.425	50	40	.986	55849	38.2	.986	55849	E	
2400	.354	60	40	.874	55849	35.9	.874	55849	D	
3000	.283	60	50	.706	52325	33.3	.706	52325		
3600	.236	60	60	.508	41905	30.9	.508	41905		

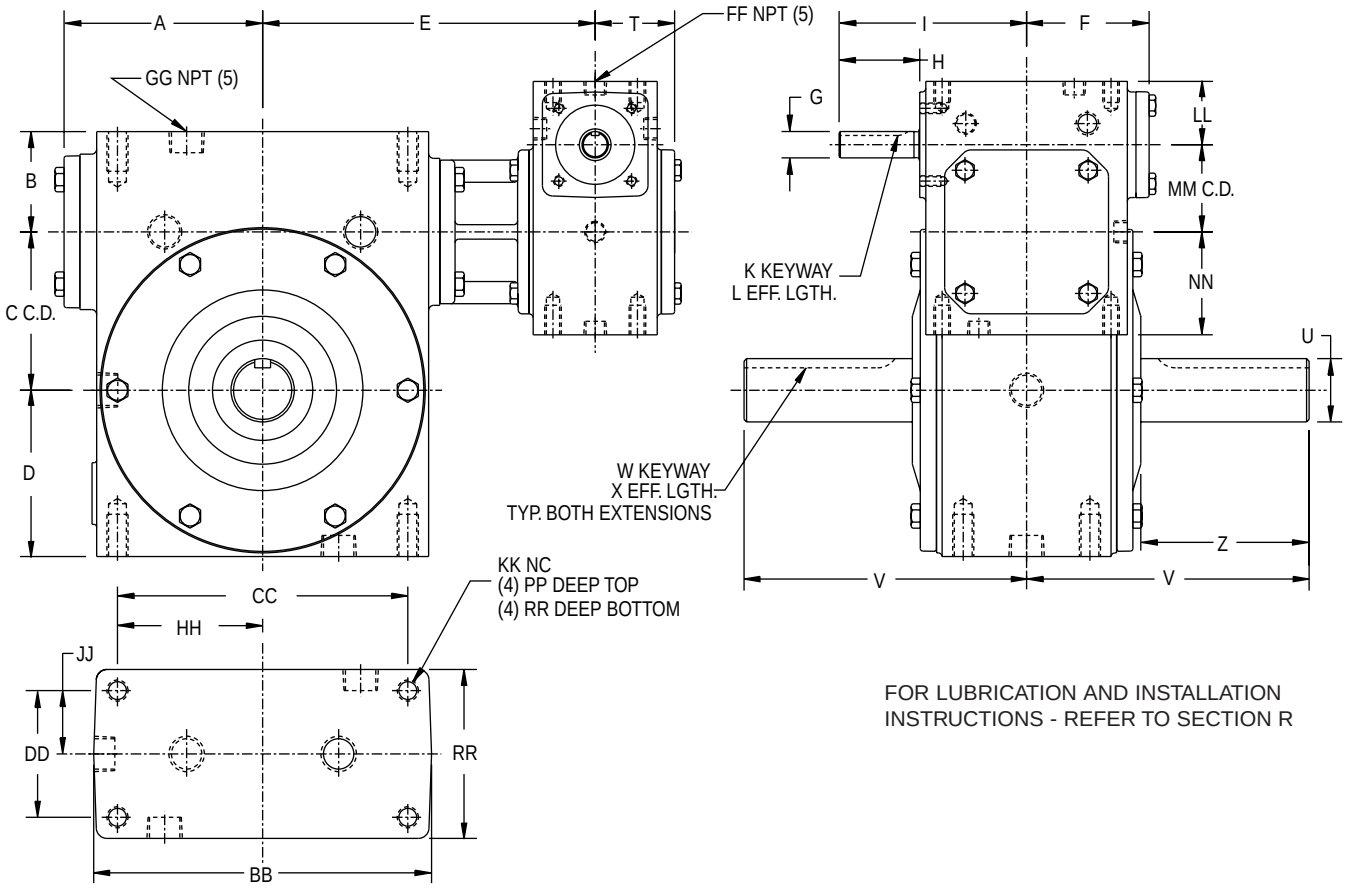
OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 8001 AND 8004 7,000 LBS. AT CENTER POINT OF SHAFT EXTENSION.
MODELS 8007 AND 8008 — OHL* 9,800 LBS., TO* THRUST OUT 8,300 LBS. AND TI* THRUST IN 6,500 LBS.
MODELS 8009 AND 8010 7,000 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST* UP OR DOWN 6,500 LBS.

*OHL and Thrust values shown are independent functions and cannot be applied simultaneously. Refer applications with combined OHL and Thrust to Hub City Customer Service Department.
Thermal capacity can be improved on some applications with the addition of a fan on the primary unit. Consult Hub City Customer Service for specifics.

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

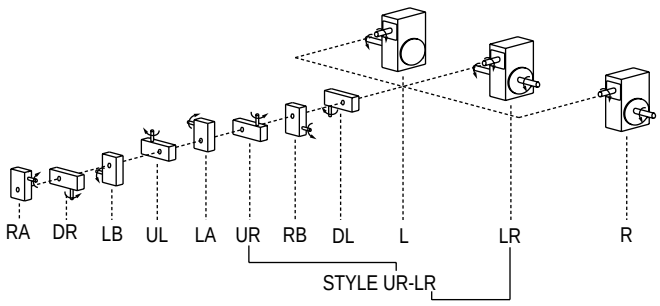
Models 1301, 1801, 2101, 2601, 3201, 3801, 4501, 5201, 6001, 7001 & 8001



FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

HUB CITY

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 1301, 1801, 2101, 2601, 3201, 3801, 4501, 5201, 6001, 7001 & 8001

MODEL	PRIMARY	SECONDARY	A	B	C	D	E	F	G	H	I
1301	131	134-56C	2	1.186	1.334	1.562	4-1/2	2	.500/.499	1-11/16	3-1/2
1801	131	184-56C	2-15/32	1.374	1.751	1.875	4-7/8	2	.500/.499	1-11/16	3-1/2
2101	131	214-56C	2-29/32	1.499	2.064	2.437	5-5/8	2	.500/.499	1-11/16	3-1/2
2601	131	264-56C	3-13/32	1.874	2.626	2.938	6	2	.500/.499	1-11/16	3-1/2
3201	211	324-143TC	4-3/16	2.124	3.251	3.250	7-1/2	2	.625/.624	1-29/32	4-7/16
3801	211	384-143TC	4-11/16	2.374	3.751	3.937	7-7/8	2-29/32	.625/.624	1-29/32	4-7/16
4501	321	454-213TC	5-11/16	2.499	4.501	4.625	9-1/8	4-3/16	.875/.874	2-9/16	6-3/4
5201	321	524-213TC	6-13/32	2.624	5.168	5.375	9-7/8	4-3/16	.875/.874	2-9/16	6-3/4
6001	321	601	7-9/32	3.250	6.000	6.625	9-13/16	4-3/16	.875/.874	2-9/16	6-3/4
7001	381	701	8-3/8	3.875	7.000	7.625	10-31/32	4-11/16	1.000/.999	2-9/16	7-1/8
8001	451	801	10	4.501	8.000	8.750	12-1/2	5-11/16	1.125/1.124	3-7/32	8-7/16

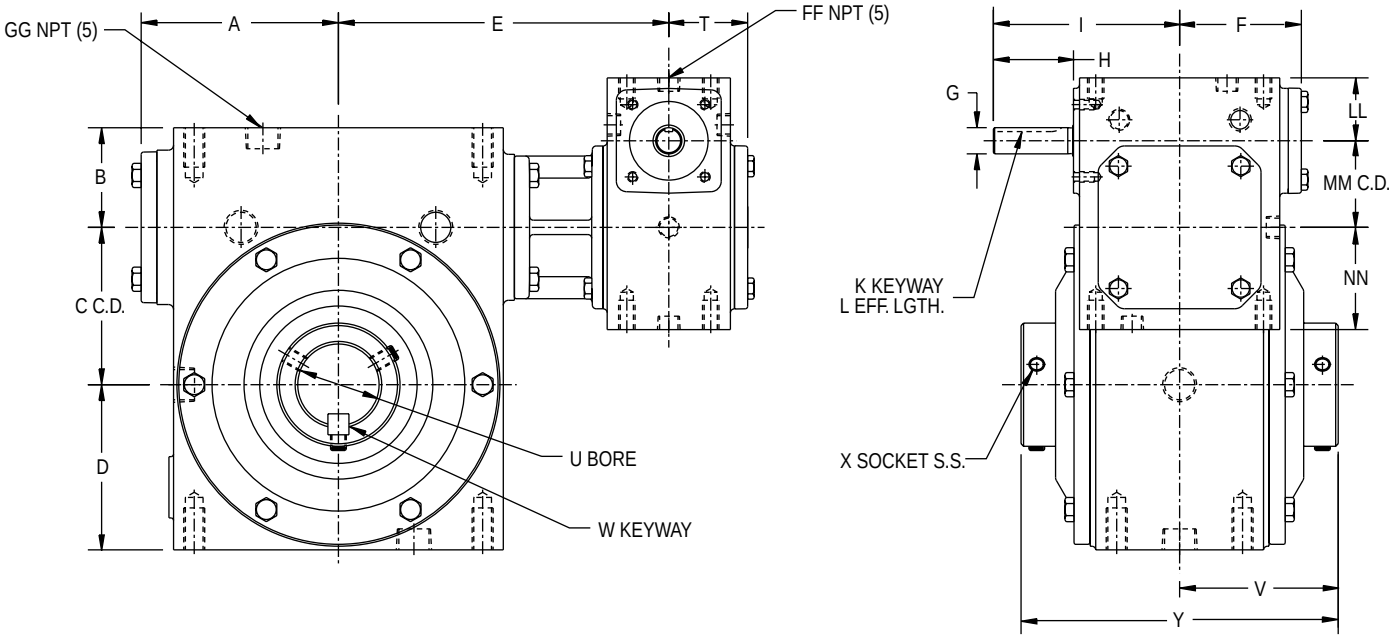
MODEL	K	L	T	U	V	W	X	Z	AA	BB	CC
1301	1/8 X 1/16	1-9/32	1-1/2	.625/.624	3-1/4	3/16 X 3/32	1-5/16	1-25/32	2-1/4	3-1/8	2-1/4
1801	1/8 X 1/16	1-9/32	1-1/2	.750/.749	3-1/2	3/16 X 3/32	1-15/32	1-15/16	2-3/8	3-7/8	3-1/8
2101	1/8 X 1/16	1-9/32	1-1/2	.875/.874	4-1/4	3/16 X 3/32	1-13/16	2-3/8	2-15/16	4-7/8	4
2601	1/8 X 1/16	1-9/32	1-1/2	1.250/1.249	4-1/2	1/4 X 1/8	1-25/32	2-13/32	3-7/16	5-5/8	4-7/8
3201	3/16 X 3/32	1-3/8	1-7/8	1.375/1.374	5-7/16	5/16 X 5/32	2-5/16	3-1/16	3-13/16	7-3/8	6-1/4
3801	3/16 X 3/32	1-3/8	1-7/8	1.500/1.499	6-11/16	3/8 X 3/16	3-5/32	4	4	8	6-7/8
4501	3/16 X 3/32	2	2-3/8	1.625/1.624	7-1/4	3/8 X 3/16	3-9/32	4-3/16	4-5/8	9-1/4	8-1/8
5201	3/16 X 3/32	2	2-3/8	1.750/1.749	7-13/16	3/8 X 3/16	3-1/2	4-15/32	5-1/16	10-3/4	9-1/2
6001	3/16 X 3/32	2	2-3/8	2.250/2.249	10-1/4	1/2 X 1/4	4-1/2	5-1/8	6-3/4	13-1/4	11
7001	1/4 X 1/8	1-29/32	2-23/32	2.750/2.749	11-1/8	5/8 X 5/16	5	5-7/16	7-3/4	15-3/16	12-1/2
8001	1/4 X 1/8	2-1/2	3-1/16	3.250/3.248	12-3/4	3/4 X 3/8	5-5/8	6-1/4	9	17-3/4	14-3/4

MODEL	DD	FF	GG	HH	JJ	KK	LL	MM	NN	PP	RR	Wt. Lbs.
1301	1-5/8	1/8	1/8	1-1/8	13/16	1/4	1.186	1.334	1.562	13/32	15/32	22
1801	1-5/8	1/8	1/8	1-9/16	13/16	1/4	1.186	1.334	1.562	13/32	1/2	25
2101	2	1/8	1/4	2	1	3/8	1.186	1.334	1.562	1/2	11/16	32
2601	2-11/16	1/8	1/4	2-7/16	1-11/32	3/8	1.186	1.334	1.562	9/16	11/16	42
3201	2-3/4	1/4	1/2	3-1/8	1-3/8	1/2	1.499	2.064	2.437	3/4	29/32	83
3801	3	1/4	1/2	3-7/16	1-1/2	1/2	1.499	2.064	2.437	15/16	1	103
4501	3-1/4	1/2	1/2	4-1/16	1-5/8	5/8	2.124	3.251	3.250	7/8	1-1/8	170
5201	3-3/4	1/2	1/2	4-3/4	1-7/8	5/8	2.124	3.251	3.250	1	1-1/4	196
6001	4-7/8	1/2	3/4	5-1/2	2-7/16	7/8	2.124	3.251	3.250	1-7/8	1-7/8	335
7001	5-1/2	1/2	3/4	6-1/4	2-3/4	1	2.374	3.751	3.937	2	2	505
8001	6-1/2	1/2	3/4	7-3/8	3-1/4	1	2.499	4.501	4.625	2	2	737

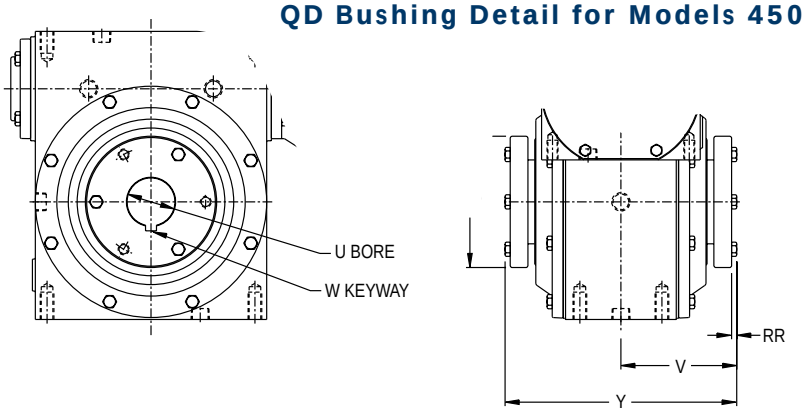
VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 1802, 2102, 2602, 3202, 3802, 4502, 5202, 6002 & 7002



QD Bushing Detail for Models 4502, 5202, 6002 & 7002

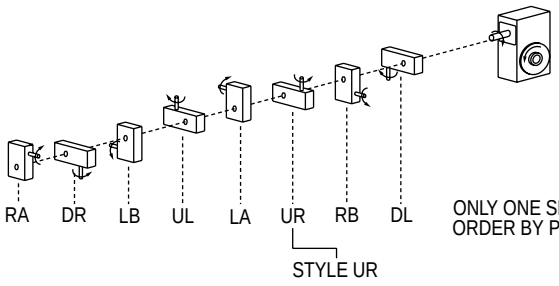


FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

SHAFT MOUNTED UNITS REQUIRE TORQUE ARMS. TORQUE ARM KITS ARE AVAILABLE, SEE PAGE B-97.

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



ONLY ONE SECONDARY STYLE AVAILABE.
ORDER BY PRIMARY STYLE ONLY.

CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 1802, 2102, 2602, 3202, 3802, 4502, 5202, 6002 & 7002

MODEL	PRIMARY	SECONDARY	A	B	C	D	E	F	G	H	I
1802	131	185-56C	2-15/32	1.374	1.751	1.875	4-7/8	2	.500/.499	1-11/16	3-1/2
2102	131	215-56C	2-29/32	1.499	2.064	2.437	5-5/8	2	.500/.499	1-11/16	3-1/2
2602	131	265-56C	3-13/32	1.874	2.626	2.938	6	2	.500/.499	1-11/16	3-1/2
3202	211	325-143TC	4-3/16	2.124	3.251	3.250	7-1/2	2	.625/.624	1-29/32	4-7/16
3802	211	385-143TC	4-11/16	2.374	3.751	3.937	7-7/8	2-29/32	.625/.624	1-29/32	4-7/16
4502	321	455-213TC	5-11/16	2.499	4.501	4.625	9-1/8	4-3/16	.875/.874	2-9/16	6-3/4
5202	321	525-213TC	6-13/32	2.624	5.168	5.375	9-7/8	4-3/16	.875/.874	2-9/16	6-3/4
6002	321	602	7-9/32	3.250	6.000	6.625	9-13/16	4-3/16	.875/.874	2-9/16	6-3/4
7002	381	702	8-3/8	3.875	7.000	7.625	10-31/32	4-11/16	1.000/.999	2-9/16	7-1/8

MODEL	K	L	T	V	Y	FF	GG	LL	MM	NN	Wt. Lbs.
1802	1/8 X 1/16	1-9/32	1-1/2	2-13/32	4-13/16	1/8	1/8	1.186	1.334	1.562	29
2102	1/8 X 1/16	1-9/32	1-1/2	2-15/16	5-7/8	1/8	1/4	1.186	1.334	1.562	35
2602	1/8 X 1/16	1-9/32	1-1/2	3-1/8	6-1/4	1/8	1/4	1.186	1.334	1.562	45
3202	3/16 X 3/32	1-3/8	1-7/8	3-25/32	7-9/16	1/4	1/2	1.499	2.064	2.437	86
3802	3/16 X 3/32	1-3/8	1-7/8	3-25/32	7-9/16	1/4	1/2	1.499	2.064	2.437	107
4502	3/16 X 3/32	2	2-3/8	5	10	1/2	1/2	2.124	3.251	3.250	175
5202	3/16 X 3/32	2	2-3/8	5-9/16	11-1/8	1/2	1/2	2.124	3.251	3.250	203
6002	3/16 X 3/32	2	2-3/8	7-3/16	14-3/8	1/2	3/4	2.124	3.251	3.250	350
7002	1/4 X 1/8	1-29/32	2-23/32	8-1/8	16-1/4	1/2	3/4	2.374	3.751	3.937	515

Stock Bores

MODEL	U	W	Key Furnished	X
1802	15/16	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
	1 (Max.)	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
2102	15/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4 (Max.)	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
2602	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-7/16 (Max)	3/8 X 1/8	3/8 X 5/16	1/4 NC X 1/4 LG 5/16 NC X 5/16 LG
3202 & 3802	1-7/16	3/8 X 3/16	3/8 Sq.	3/8 NC X 5/8 LG
	1-15/16	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2-3/16 (Max.)	1/2 X 1/8	1/2 Sq.	3/8 NC X 3/8 LG

BORE TOLERANCE NOMINAL + .002

QD Bushing Bores

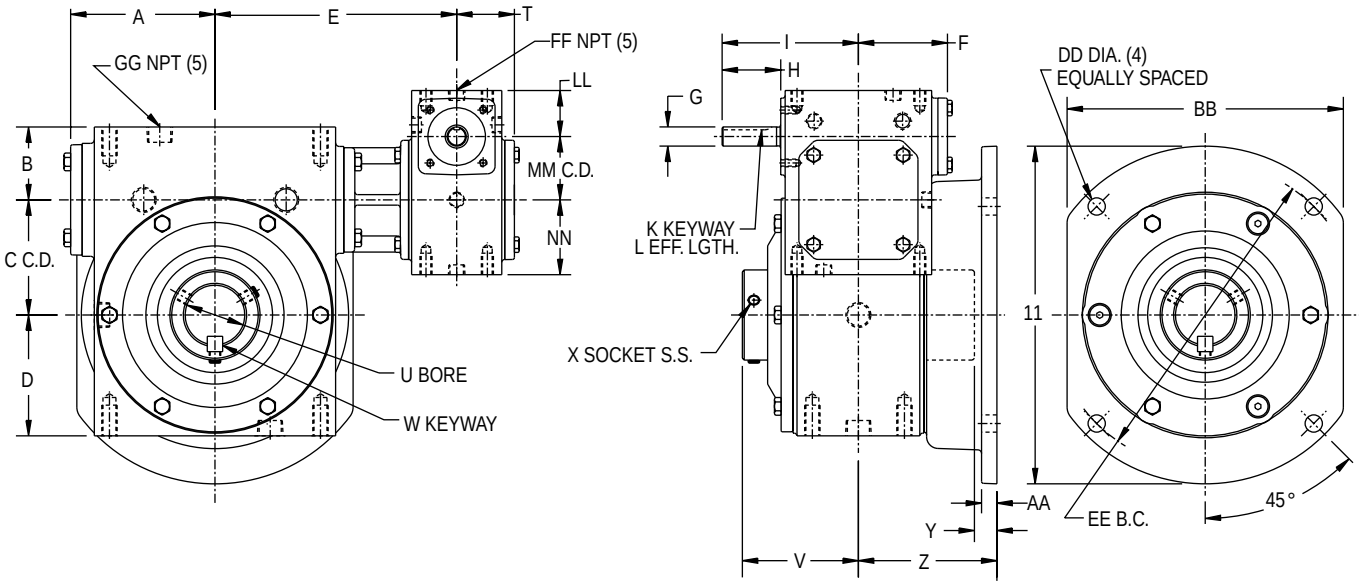
MODEL	U	W	X	PP	RR	KEY	TYPE	KIT*
4502	1-15/16	1/2 X 1/4	-	4-5/8	3/8	1/2 Sq.	SF	0229-02683
	2		-					0229-02684
	2-3/16		-					0229-02685
	2-7/16	5/8 X 3/16	-			5/8 X 1/2		0229-02686
	2-15/16	3/4 X 1/32	-			3/4 X 13/32		0229-02687
5202 & 6002	2-3/16	1/2 X 1/4	-	6	7/16	1/2 Sq.	E	0229-02688
	2-7/16	5/8 X 3/16	-			5/8 Sq.		0229-02689
	2-15/16	3/4 X 1/8	-			3/4 X 1/2		0229-02690
	3		-					0229-02691
	3-3/16		-					0229-02692
	3-7/16	7/8 X 1/16	-			7/8 X 1/2		0229-02693
7002	2-7/16	5/8 X 5/16	-	6-5/8	17/32	5/8 Sq.	F	0229-02905
	2-15/16	3/4 X 3/8	-			3/4 Sq.		0229-02906
	3		-					0229-02907
	3-3/16		-					0229-02908
	3-7/16	7/8 X 3/16	-			7/8 X 5/8		0229-02909
	3-15/16	1 X 1/8	-			1 X 5/8		0229-02910

*Order by QD Bushing Kit Number. Bushing Kits are not included in reducer price.
Kit includes two Bushings with Keyways and one Key

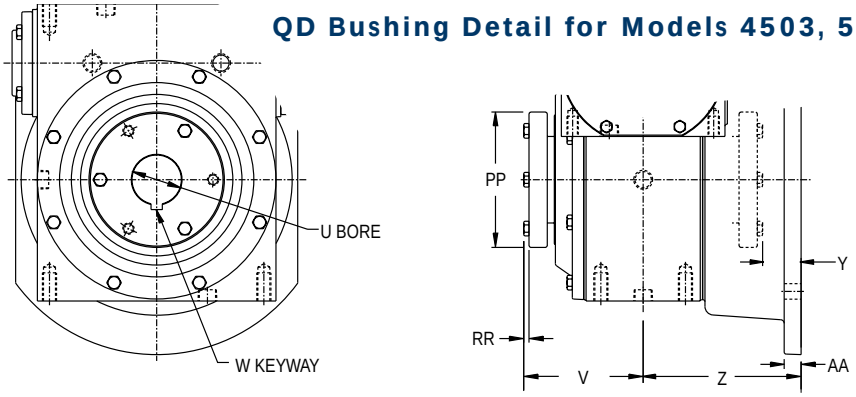
VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 1803, 2103, 2603, 3203, 3803, 4503, 5203, & 6003



QD Bushing Detail for Models 4503, 5203, & 6003

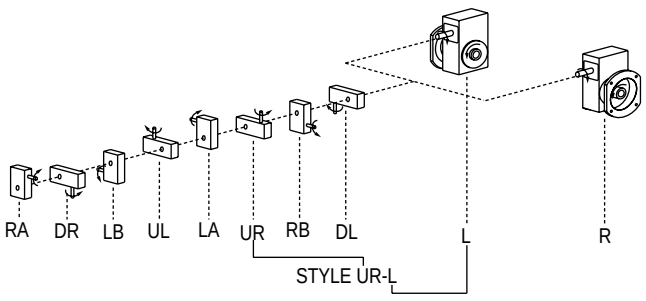


FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

THESE UNITS CAN BE FURNISHED WITH SOLID OUTPUT SHAFT ON SPECIAL ORDER

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

HUB CITY

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 1803, 2103, 2603, 3203, 3803, 4503, 5203, & 6003

MODEL	PRIMARY	SECONDARY	A	B	C	D	E	F	G	H	I	K	L
1803	131	186-56C	2-15/32	1.374	1.751	1.875	4-7/8	2	.500/.499	1-11/16	3-1/2	1/8 X 1/16	1-9/32
2103	131	216-56C	2-29/32	1.499	2.064	2.437	5-5/8	2	.500/.499	1-11/16	3-1/2	1/8 X 1/16	1-9/32
2603	131	266-56C	3-13/32	1.874	2.626	2.938	6	2	.500/.499	1-11/16	3-1/2	1/8 X 1/16	1-9/32
3203	211	326-143TC	4-3/16	2.124	3.251	3.250	7-1/2	2	.625/.624	1-29/32	4-7/16	3/16 X 3/32	1-3/8
3803	211	386-143TC	4-11/16	2.374	3.751	3.937	7-7/8	2-29/32	.625/.624	1-29/32	4-7/16	3/16 X 3/32	1-3/8
4503	321	456-213TC	5-11/16	2.499	4.501	4.625	9-1/8	4-3/16	.875/.874	2-9/16	6-3/4	3/16 X 3/32	2
5203	321	526-213TC	6-13/32	2.624	5.168	5.375	9-7/8	4-3/16	.875/.874	2-9/16	6-3/4	3/16 X 3/32	2
6003	321	603	7-9/32	3.250	6.000	6.625	9-13/16	4-3/16	.875/.874	2-9/16	6-3/4	3/16 X 3/32	2

MODEL	T	V	Y	Z	AA	BB	CC	DD	EE	FF	GG	LL	MM	NN	Wt. Lbs.
1803	1-1/2	2-13/32	29/32	3-5/16	19/32	4-29/32	6-25/32	11/32	5.875	1/8	1/8	1.186	1.334	1.562	33
2103	1-1/2	2-15/16	11/16	3-5/8	7/16	6-1/4	7-7/8	13/32	7	1/8	1/4	1.186	1.334	1.562	40
2603	1-1/2	3-1/8	1/2	3-5/8	7/16	7-3/4	8-7/8	13/32	8	1/8	1/4	1.186	1.334	1.562	53
3203	1-7/8	3-25/32	7/32	4	1/2	8	10	13/32	9	1/4	1/2	1.499	2.064	2.437	95
3803	1-7/8	3-25/32	23/32	4-1/2	1/2	9	11	9/16	10	1/4	1/2	1.499	2.064	2.437	115
4503	2-3/8	5	3/4	5-3/4	5/8	12-1/4	14-1/4	11/16	13	1/2	1/2	2.124	3.251	3.250	183
5203	2-3/8	5-9/16	1-7/16	7	3/4	12-1/2	15-1/2	11/16	14	1/2	1/2	2.124	3.251	3.250	212
6003	2-3/8	7-3/16	13/16	8	7/8	15	18	13/16	16	1/2	3/4	2.124	3.251	3.250	370

Stock Bores

MODEL	U	W	Key Furnished	X
1803	15/16	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
	1 (Max.)	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
2103	15/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4 (Max.)	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
2603	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-7/16 (Max)	3/8 X 1/8	3/8 X 5/16	1/4 NC X 1/4 LG 5/16 NC X 5/16 LG
3203 & 3803	1-7/16	3/8 X 3/16	3/8 Sq.	3/8 NC X 5/8 LG
	1-15/16	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2-3/16 (Max.)	1/2 X 1/8	1/2 Sq.	3/8 NC X 3/8 LG

QD Bushing Bores

MODEL	U	W	X	PP	RR	KEY	TYPE	KIT*
4503	1-15/16	1/2 X 1/4	-	4-5/8	3/8	1/2 Sq.	SF	0229-02683
	2		-					0229-02684
	2-3/16		-					0229-02685
	2-7/16	5/8 X 3/16	-			5/8 X 1/2		0229-02686
	2-15/16	3/4 X 1/32	-			3/4 X 13/32		0229-02687
5203 & 6003	2-3/16	1/2 X 1/4	-	6	7/16	1/2 Sq.	E	0229-02688
	2-7/16	5/8 X 3/16	-			5/8 Sq.		0229-02689
	2-15/16	3/4 X 1/8	-			3/4 X 1/2		0229-02690
	3		-					0229-02691
	3-3/16		-					0229-02692
	3-7/16	7/8 X 1/16	-			7/8 X 1/2		0229-02693

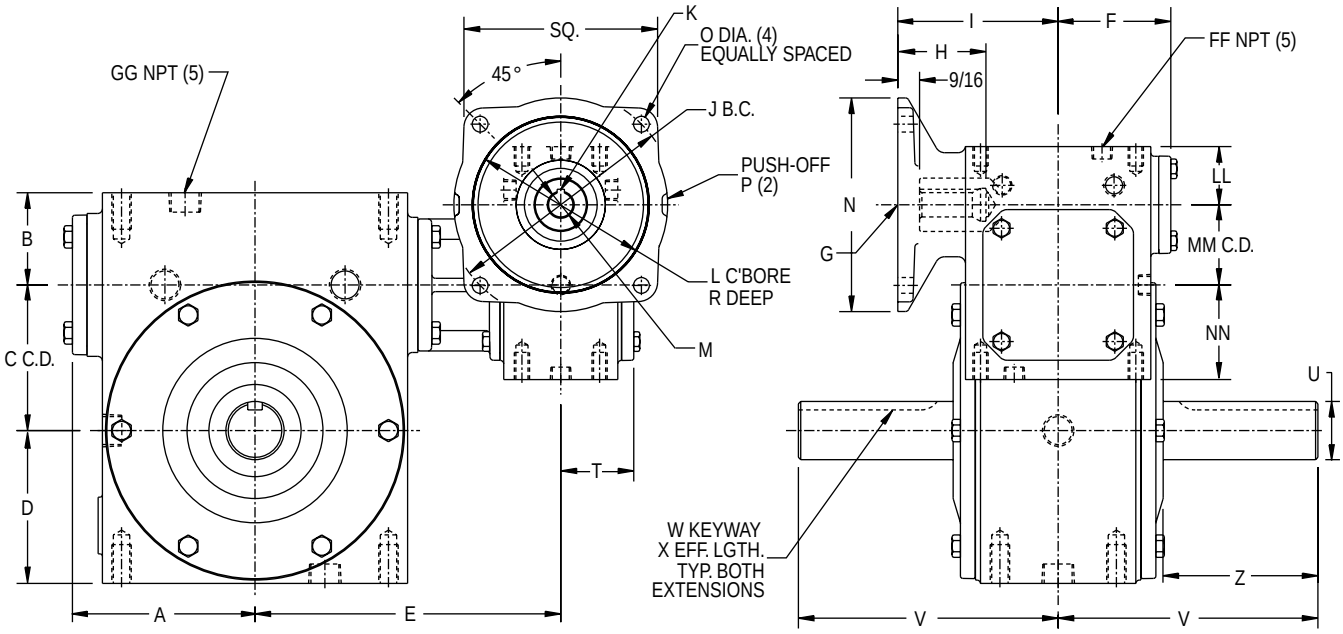
*Order by QD Bushing Kit Number. Bushing Kits are not included in reducer price.
Kit includes two Bushings with Keyways and one Key

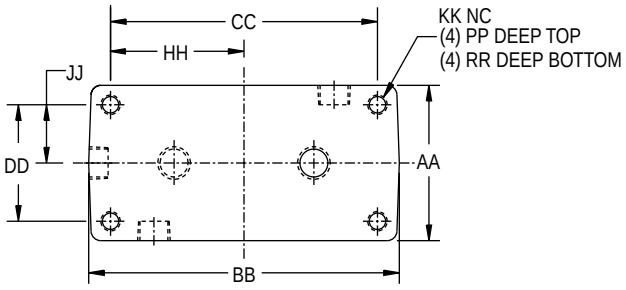
BORE TOLERANCE NOMINAL + .002

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 1304, 1804, 2104, 2604, 3204, 3804, 4504, 5204, 6004, 7004 & 8004



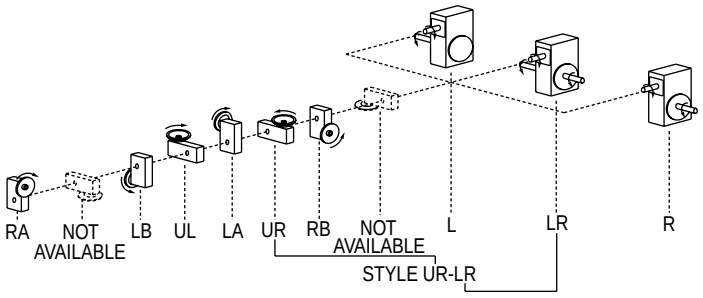


FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

SPECIAL, 48C, METRIC AND SAE HYDRAULIC INPUT FLANGES AVAILABLE. CONSULT FACTORY FOR COMPLETE SPECIFICATIONS.

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 1304, 1804, 2104, 2604, 3204, 3804, 4504, 5204, 6004, 7004 & 8004

Secondary Unit Dimensions

MODEL	PRIMARY	SECONDARY	A	B	C	D	E	U	V	W	X	Z
1304	134	134-56C	2	1.186	1.334	1.562	4-1/2	.625/.624	3-1/4	3/16 X 3/32	1-5/16	1-25/32
1804	134	184-56C	2-15/32	1.374	1.751	1.875	4-7/8	.750/.749	3-1/2	3/16 X 3/32	1-15/32	1-15/16
2104	134	214-56C	2-29/32	1.499	2.064	2.437	5-5/8	.875/.874	4-1/4	3/16 X 3/32	1-13/16	2-3/8
2604	134	264-56C	3-13/32	1.874	2.626	2.938	6	1.250/1.249	4-1/2	1/4 X 1/8	1-25/32	2-13/32
3204	214	324-143TC	4-3/16	2.124	3.251	3.250	7-1/2	1.375/1.374	5-7/16	5/16 X 5/32	2-5/16	3-1/16
3804	214	384-143TC	4-11/16	2.374	3.751	3.937	7-7/8	1.500/1.499	6-11/16	3/8 X 3/16	3-5/32	4
4504	324	454-213TC	5-11/16	2.499	4.501	4.625	9-1/8	1.625/1.624	7-1/4	3/8 X 3/16	3-9/32	4-3/16
5204	324	524-213TC	6-13/32	2.624	5.168	5.375	9-7/8	1.750/1.749	7-13/16	3/8 X 3/16	3-1/2	4-15/32
6004	324	601	7-9/32	3.250	6.000	6.625	9-13/16	2.250/2.249	10-1/4	1/2 X 1/4	4-1/2	5-1/8
7004	384	701	8-3/8	3.875	7.000	7.625	10-31/32	2.750/2.749	11-1/8	5/8 X 5/16	5	5-7/16
8004	454	801	10	4.501	8.000	8.750	12-1/2	3.250/3.248	12-3/4	3/4 X 3/8	5-5/8	6-1/4

MODEL	AA	BB	CC	DD	FF	GG	HH	JJ	KK	PP	RR	Wt. Lbs.
1304	2-1/4	3-1/8	2-1/4	1-5/8	1/8	1/8	1-1/8	13/16	1/4	13/32	15/32	26
1804	2-3/8	3-7/8	3-1/8	1-5/8	1/8	1/8	1-9/16	13/16	1/4	13/32	1/2	29
2104	2-15/16	4-7/8	4	2	1/8	1/4	2	1	3/8	1/2	11/16	36
2604	3-7/16	5-5/8	4-7/8	2-11/16	1/8	1/4	2-7/16	1-11/32	3/8	9/16	11/16	46
3204	3-13/16	7-3/8	6-1/4	2-3/4	1/4	1/2	3-1/8	1-3/8	1/2	3/4	29/32	87
3804	4	8	6-7/8	3	1/4	1/2	3-7/16	1-1/2	1/2	15/16	1	107
4504	4-5/8	9-1/4	8-1/8	3-1/4	1/2	1/2	4-1/16	1-5/8	5/8	7/8	1-1/8	176
5204	5-1/16	10-3/4	9-1/2	3-3/4	1/2	1/2	4-3/4	1-7/8	5/8	1	1-1/4	202
6004	6-3/4	13-1/4	11	4-7/8	1/2	3/4	5-1/2	2-7/16	7/8	1-7/8	1-7/8	341
7004	7-3/4	15-3/16	12-1/2	5-1/2	1/2	3/4	6-1/4	2-3/4	1	2	2	512
8004	9	17-3/4	14-3/4	6-1/2	1/2	3/4	7-3/8	3-1/4	1	2	2	747

Primary Unit Dimensions

MODEL	F	G	H	I	J	K	L	M	N	O	P	R	T	LL	MM	NN
1304	2	56C	2-9/32	3-3/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-1/2	1.186	1.334	1.562
1804	2	56C	2-9/32	3-3/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-1/2	1.186	1.334	1.562
2104	2	56C	2-9/32	3-3/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-1/2	1.186	1.334	1.562
2604	2	56C	2-9/32	3-3/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-1/2	1.186	1.334	1.562
3204	2	56C	2-1/4	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-7/8	1.499	2.064	2.437
		143TC	2-3/8					.8755/.8770								
3804	2-29/32	56C	2-1/4	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-7/8	1.499	2.064	2.437
		143TC	2-3/8	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	5-1/2	13/32	SLOTS	13/64				
4504	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
5204	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
6004	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
7004	4-11/16	56C	2-1/4	5-7/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-23/32	2.374	3.751	3.937
		143TC	2-3/8	5-7/8	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-5/8	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
8004	5-11/16	56C	2-1/4	6-3/4	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	3-1/16	2.499	4.501	4.625
		143TC	2-1/4	6-3/4	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16		7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
		213TC	3-1/2			5/16 X 5/32		1.3755/1.3770								

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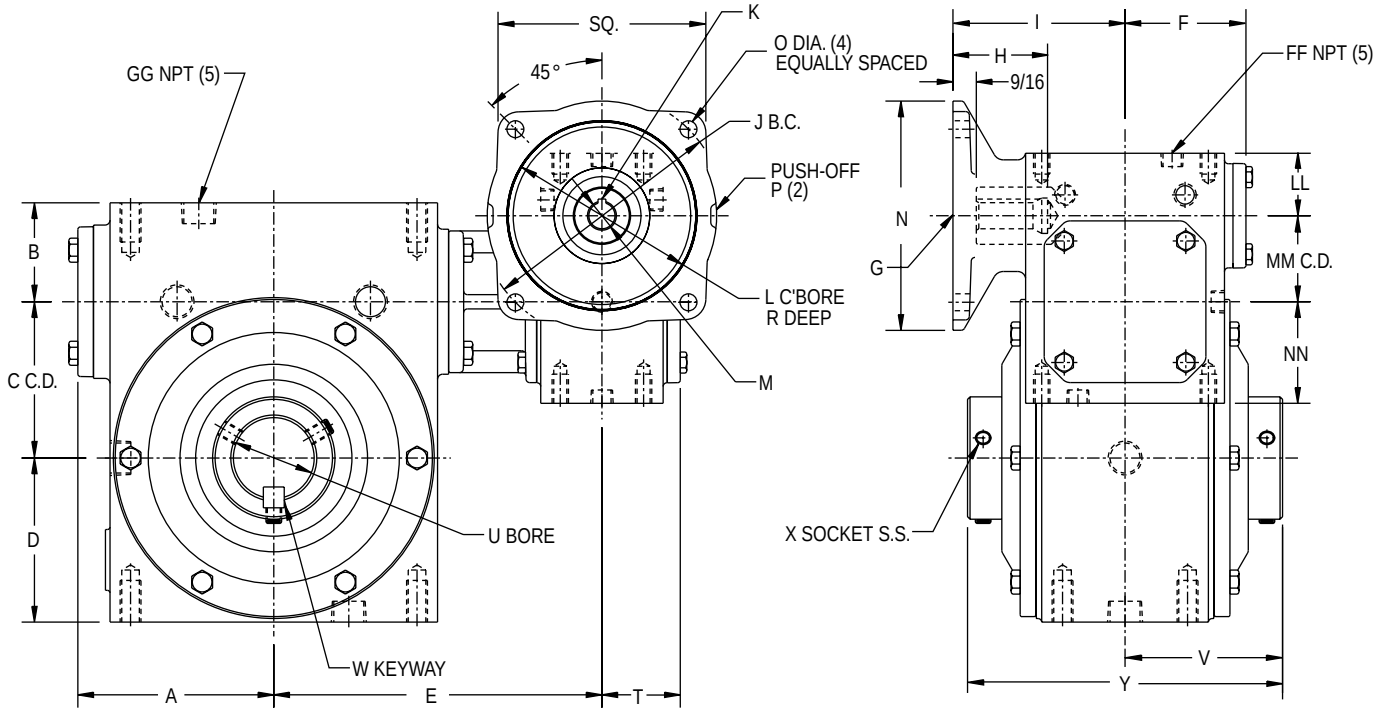
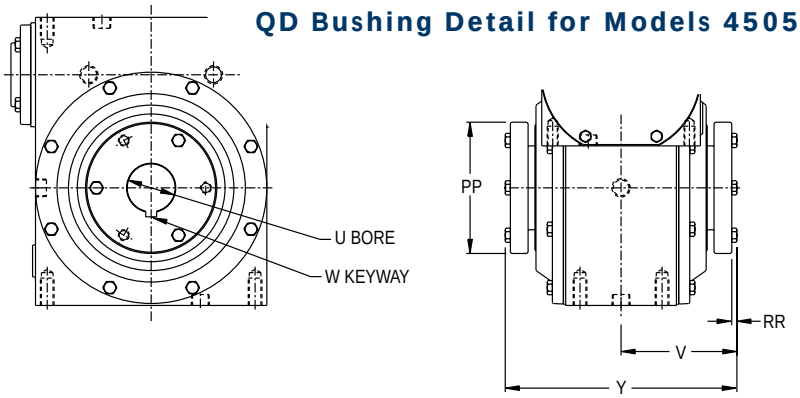
Models 1805, 2105, 2605, 3205, 3805, 4505, 5205, 6005 & 7005



QD Bushing Detail for Models 4505, 5205, 6005 & 7005



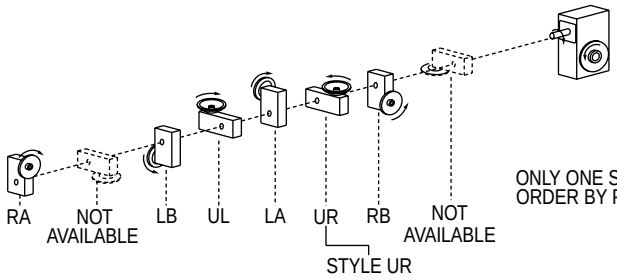
FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

SHAFT MOUNTED UNITS REQUIRE TORQUE ARMS. TORQUE ARM KITS ARE AVAILABLE, SEE PAGE B-97

SPECIAL, 48C, METRIC AND SAE HYDRAULIC INPUT FLANGES AVAILABLE. CONSULT FACTORY FOR COMPLETE SPECIFICATIONS.

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



ONLY ONE SECONDARY STYLE AVAILABLE. ORDER BY PRIMARY STYLE ONLY.

CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

HUB CITY

FAX: (605) 225-0567

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FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 1805, 2105, 2605, 3205, 3805, 4505, 5205, 6005 & 7005

Secondary Unit Dimensions

MODEL	PRIMARY	SECONDARY	A	B	C	D	E	V	Y	FF	GG	Weight (lbs)
1805	134	185-56C	2-15/32	1.374	1.751	1.875	4-7/8	2-13/32	4-13/16	1/8	1/8	33
2105	134	215-56C	2-29/32	1.499	2.064	2.437	5-5/8	2-15/16	5-7/8	1/8	1/4	38
2605	134	265-56C	3-13/32	1.874	2.626	2.938	6	3-1/8	6-1/4	1/8	1/4	49
3205	214	325-143TC	4-3/16	2.124	3.251	3.250	7-1/2	3-25/32	7-9/16	1/4	1/2	90
3805	214	385-143TC	4-11/16	2.374	3.751	3.937	7-7/8	3-25/32	7-9/16	1/4	1/2	111
4505	324	455-213TC	5-11/16	2.499	4.501	4.625	9-1/8	5	10	1/2	1/2	181
5205	324	525-213TC	6-13/32	2.624	5.168	5.375	9-7/8	5-9/16	11-1/8	1/2	1/2	209
6005	324	602	7-9/32	3.250	6.000	6.625	9-13/16	7-3/16	14-3/8	1/2	3/4	356
7005	384	702	8-3/8	3.875	7.000	7.625	10-31/32	8-1/8	16-1/4	1/2	3/4	522

Primary Unit Dimensions

MODEL	F	G	H	I	J	K	L	M	N	O	P	R	T	LL	MM	NN
1805	2	56C	2-9/32	3-3/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-1/2	1.186	1.334	1.562
2105	2	56C	2-9/32	3-3/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-1/2	1.186	1.334	1.562
2605	2	56C	2-9/32	3-3/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-1/2	1.186	1.334	1.562
3205	2	56C	2-1/4	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-7/8	1.499	2.064	2.437
		143TC	2-3/8					.8755/.8770								
3805	2-29/32	56C	2-1/4	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-7/8	1.499	2.064	2.437
		143TC	2-3/8	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	5-1/2	13/32	SLOTS	13/64				
4505	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
5205	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
6005	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
7005	4-11/16	56C	2-1/4	5-7/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-23/32	2.374	3.751	3.937
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-5/8	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				

Stock Bores

MODEL	U	W	Key Furnished	X
1805	15/16	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
	1 (Max.)	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
2105	15/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4 (Max.)	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
2605	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-7/16 (Max)	3/8 X 1/8	3/8 X 5/16	1/4 NC X 1/4 LG 5/16 NC X 5/16 LG
3205 & 3805	1-7/16	3/8 X 3/16	3/8 Sq.	3/8 NC X 5/8 LG
	1-15/16	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2-3/16 (Max.)	1/2 X 1/8	1/2 Sq.	3/8 NC X 3/8 LG

BORE TOLERANCE NOMINAL + .002

QD Bushing Bores

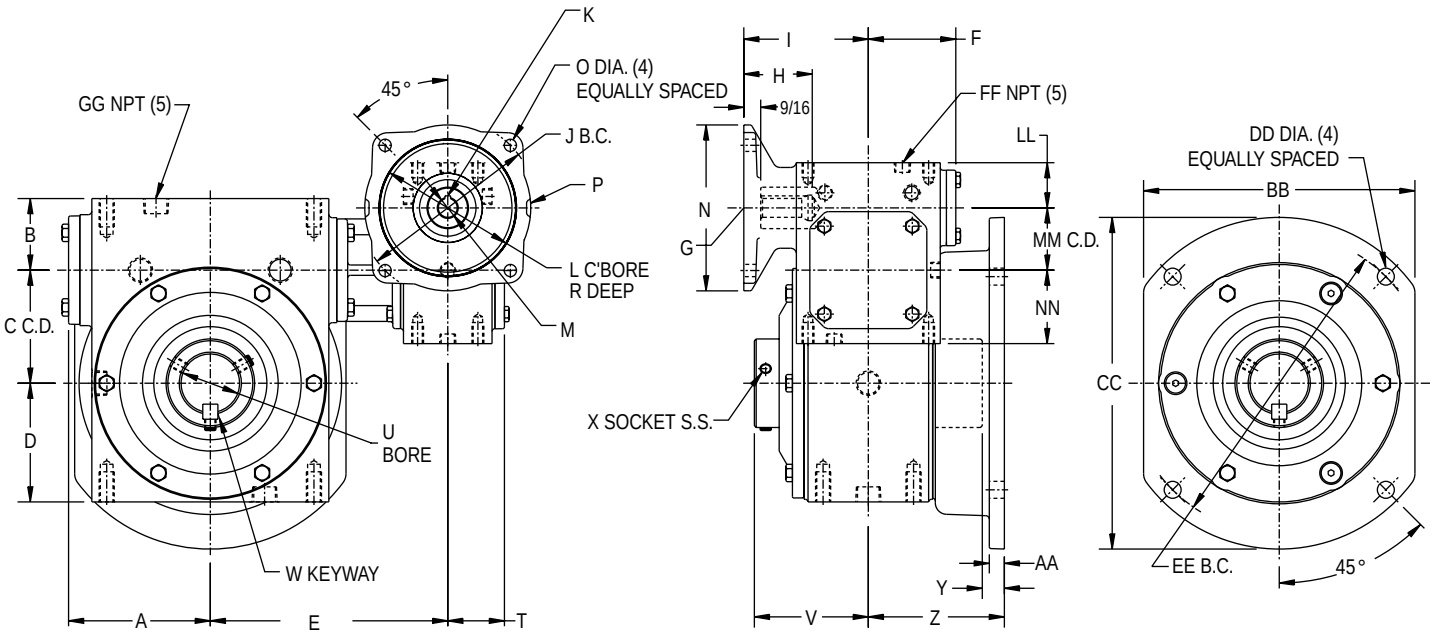
MODEL	U	W	X	PP	RR	KEY	TYPE	KIT*
4505	1-15/16	1/2 X 1/4	-	4-5/8	3/8	1/2 Sq.	SF	0229-02683
	2		-					0229-02684
	2-3/16		-					0229-02685
	2-7/16	5/8 X 3/16	-			5/8 X 1/2		0229-02686
	2-15/16	3/4 X 1/32	-			3/4 X 13/32		0229-02687
5205 & 6005	2-3/16	1/2 X 1/4	-	6	7/16	1/2 Sq.	E	0229-02688
	2-7/16	5/8 X 3/16	-			5/8 Sq.		0229-02689
	2-15/16	3/4 X 1/8	-			3/4 X 1/2		0229-02690
	3		-					0229-02691
	3-3/16		-					0229-02692
	3-7/16	7/8 X 1/16	-			7/8 X 1/2		0229-02693
7005	2-7/16	5/8 X 5/16	-	6-5/8	17/32	5/8 Sq.	F	0229-02905
	2-15/16	3/4 X 3/8	-			3/4 Sq.		0229-02906
	3		-					0229-02907
	3-3/16		-					0229-02908
	3-7/16	7/8 X 3/16	-			7/8 X 5/8		0229-02909
	3-15/16	1 X 1/8	-			1 X 5/8		0229-02910

*Order by QD Bushing Kit Number. Bushing Kits are not included in reducer price.
Kit includes two Bushings with Keyways and one Key

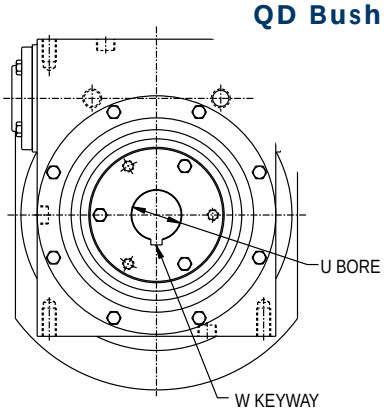
VISIT OUR WEB SITE AT WWW.CLARKTR.COM

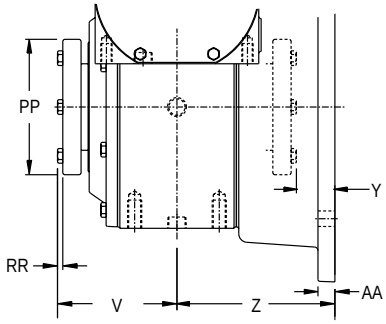
FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 1806, 2106, 2606, 3206, 3806, 4506, 5206 & 6006



QD Bushing Detail for Models 4506, 5206 & 6006





FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

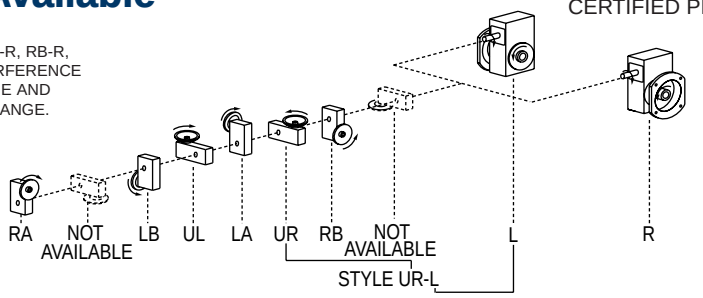
METRIC AND SAE HYDRAULIC INPUT FLANGES AVAILABLE. CONSULT FACTORY FOR COMPLETE SPECIFICATIONS.

THESE UNITS CAN BE FURNISHED WITH SOLID OUTPUT SHAFT ON SPECIAL ORDER

Standard Styles Available

NOTE: ASSEMBLIES, LA-L, LB-L, RA-R, RB-R, ARE NOT AVAILABLE DUE TO INTERFERENCE BETWEEN PRIMARY UNIT C FLANGE AND SECONDARY UNIT SIDE MOUNT FLANGE.

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 1806, 2106, 2606, 3206, 3806, 4506, 5206 & 6006

Secondary Unit Dimensions

MODEL	PRIMARY	SECONDARY	A	B	C	D	E	V	Y	Z	AA	BB	CC	DD	EE	FF	GG	Weight (lbs)
1806	134	186-56C	2-15/32	1.374	1.751	1.875	4-7/8	2-13/32	29/32	3-5/16	19/32	4-29/32	6-25/32	11/32	5.875	1/8	1/8	37
2106	134	216-56C	2-29/32	1.499	2.064	2.437	5-5/8	2-15/16	11/16	3-5/8	7/16	6-1/4	7-7/8	13/32	7	1/8	1/4	44
2606	134	266-56C	3-13/32	1.874	2.626	2.938	6	3-1/8	1/2	3-5/8	7/16	7-3/4	8-7/8	13/32	8	1/8	1/4	57
3206	214	326-143TC	4-3/16	2.124	3.251	3.250	7-1/2	3-25/32	7/32	4	1/2	8	10	13/32	9	1/4	1/2	99
3806	214	386-143TC	4-11/16	2.374	3.751	3.937	7-7/8	3-25/32	23/32	4-1/2	1/2	9	11	9/16	10	1/4	1/2	119
4506	324	456-213TC	5-11/16	2.499	4.501	4.625	9-1/8	5	3/4	5-3/4	5/8	12-1/4	14-1/4	11/16	13	1/2	1/2	189
5206	324	526-213TC	6-13/32	2.624	5.168	5.375	9-7/8	5-9/16	1-7/16	7	3/4	12-1/2	15-1/2	11/16	14	1/2	1/2	218
6006	324	603	7-9/32	3.250	6.000	6.625	9-13/16	7-3/16	13/16	8	7/8	15	18	13/16	16	1/2	3/4	376

Primary Unit Dimensions

MODEL	F	G	H	I	J	K	L	M	N	O	P	R	T	LL	MM	NN
1806	2	56C	2-9/32	3-3/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-1/2	1.186	1.334	1.562
2106	2	56C	2-9/32	3-3/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-1/2	1.186	1.334	1.562
2606	2	56C	2-9/32	3-3/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-1/2	1.186	1.334	1.562
3206	2	56C	2-1/4	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-7/8	1.499	2.064	2.437
		143TC	2-3/8					.8755/.8770								
3806	2-29/32	56C	2-1/4	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-7/8	1.499	2.064	2.437
		143TC	2-3/8	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	5-1/2	13/32	SLOTS	13/64				
4506	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
5206	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
6006	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				

Stock Bores

MODEL	U	W	Key Furnished	X
1806	15/16	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
	1 (Max.)	1/4 X 1/8	1/4 Sq.	1/4 NC X 1/4 LG
2106	15/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4 (Max.)	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
2606	1	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-3/16	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-1/4	1/4 X 1/8	1/4 Sq.	5/16 NC X 5/16 LG
	1-7/16 (Max)	3/8 X 1/8	3/8 X 5/16	1/4 NC X 1/4 LG
				5/16 NC X 5/16 LG
3206 & 3806	1-7/16	3/8 X 3/16	3/8 Sq.	3/8 NC X 5/8 LG
	1-15/16	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2	1/2 X 1/4	1/2 Sq.	3/8 NC X 3/8 LG
	2-3/16 (Max.)	1/2 X 1/8	1/2 Sq.	3/8 NC X 3/8 LG

BORE TOLERANCE NOMINAL + .002

QD Bushing Bores

MODEL	U	W	X	PP	RR	KEY	TYPE	KIT*
4506	1-15/16	1/2 X 1/4	-	4-5/8	3/8	1/2 Sq.	SF	0229-02683
	2		-					0229-02684
	2-3/16		-					0229-02685
	2-7/16	5/8 X 3/16	-			5/8 X 1/2		0229-02686
	2-15/16	3/4 X 1/32	-			3/4 X13/32		0229-02687
5206 & 6006	2-3/16	1/2 X 1/4	-	6	7/16	1/2 Sq.	E	0229-02688
	2-7/16	5/8 X 3/16	-			5/8 Sq.		0229-02689
	2-15/16	3/4 X 1/8	-			3/4 X 1/2		0229-02690
	3		-					0229-02691
	3-3/16		-					0229-02692
	3-7/16	7/8 X 1/16	-			7/8 X 1/2		0229-02693

*Order by QD Bushing Kit Number. Bushing Kits are not included in reducer price.
Kit includes two Bushings with Keyways and one Key

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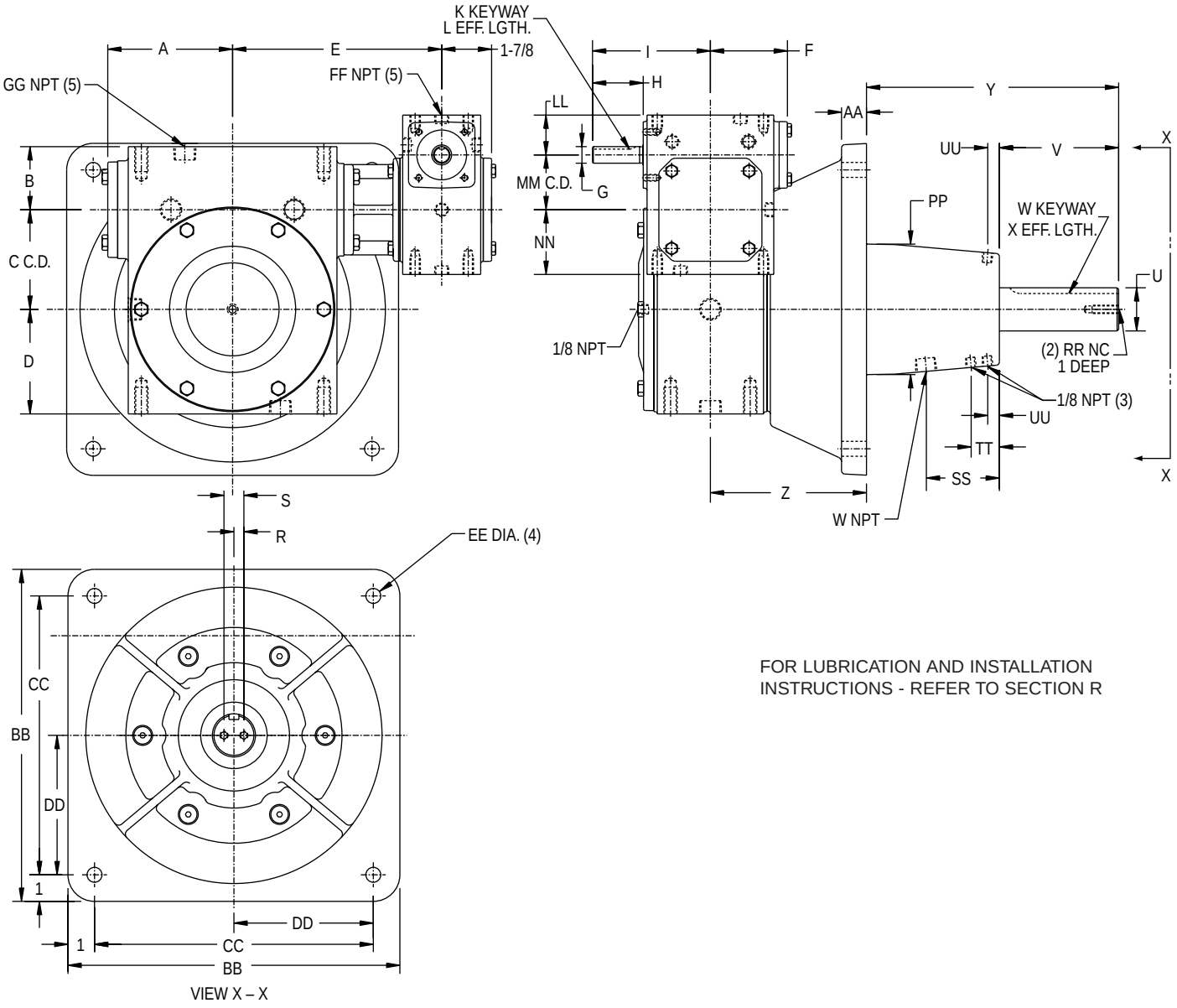
FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 3207, 3807, 4507, 5207, 6007, 7007 & 8007

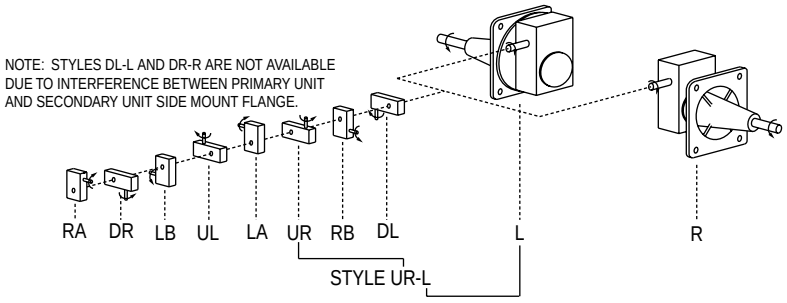


FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.

NOTE: STYLES DL-L AND DR-R ARE NOT AVAILABLE DUE TO INTERFERENCE BETWEEN PRIMARY UNIT AND SECONDARY UNIT SIDE MOUNT FLANGE.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 3207, 3807, 4507, 5207, 6007, 7007 & 8007

MODEL	PRIMARY	SECONDARY	A	B	C	D	E	F	G	H	I	K	L	T
3207	211	328-143TC	4-3/16	2.124	3.251	3.250	7-1/2	2	.625/.624	1-29/32	4-7/16	3/16 X 3/32	1-3/8	1-7/8
3807	211	388-143TC	4-11/16	2.374	3.751	3.937	7-7/8	2-29/32	.625/.624	1-29/32	4-7/16	3/16 X 3/32	1-3/8	1-7/8
4507	321	458-213TC	5-11/16	2.499	4.501	4.625	9-1/8	4-3/16	.875/.874	2-9/16	6-3/4	3/16 X 3/32	2	2-3/8
5207	321	528-213TC	6-13/32	2.624	5.168	5.375	9-7/8	4-3/16	.875/.874	2-9/16	6-3/4	3/16 X 3/32	2	2-3/8
6007	321	607	7-9/32	3.250	6.000	6.625	9-13/16	4-3/16	.875/.874	2-9/16	6-3/4	3/16 X 3/32	2	2-3/8
7007	381	707	8-3/8	3.875	7.000	7.625	10-31/32	4-11/16	1.000/.999	2-9/16	7-1/8	1/4 X 1/8	1-29/32	2-23/32
8007	451	807	10	4.501	8.000	8.750	12-1/2	5-11/16	1.125/1.124	3-7/32	8-7/16	1/4 X 1/8	2-1/2	3-1/16

MODEL	OUTPUT FLANGE	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG
3207	STD	1.4375/1.4365	4-11/16	3/8 X 3/16	3-7/8	9-1/2	5-5/8	3/4	11	9	4-1/2	9/16	1/4	1/2
	LARGE	1.625/1.624	4-9/16	3/8 X 3/16	3-11/16	9-1/2	5-7/8	31/32	12-1/2	10-1/2	5-1/4	9/16	1/4	1/2
3807	STD	1.625/1.624	4-1/2	3/8 X 3/16	3-11/16	9-1/2	5-7/8	15/16	12-1/2	10-1/2	5-1/4	9/16	1/4	1/2
	LARGE	1.6875/1.6865	5-1/2	3/8 X 3/16	4-11/16	10-1/2	6-1/32	*1-1/16	14	12	6	11/16	1/4	1/2
4507	STD	1.6875/1.6865	5-1/2	3/8 X 3/16	4-11/16	10-1/2	6	*1-1/16	14	12	6	11/16	1/2	1/2
5207	STD	2.1875/2.1865	5-17/32	1/2 X 1/4	4-7/8	10-1/2	6-1/4	1-7/32	16	14	7	13/16	1/2	1/2
6007	STD	2.4375/2.4365	7-5/8	5/8 X 5/16	6-13/16	15-1/2	8-1/4	1-1/4	19-1/2	17	8-1/2	15/16	1/2	3/4
7007	STD	2.9375/2.9365	7-5/8	3/4 X 3/8	6-13/16	15-1/2	10-1/4	1-1/2	22-1/4	19	9-1/2	1-1/16	1/2	3/4
8007	STD	3.4375/3.4355	8-5/16	7/8 X 7/16	7-5/8	16-1/8	11-1/4	1-3/4	24-1/4	21	10-1/2	1-5/16	1/2	3/4

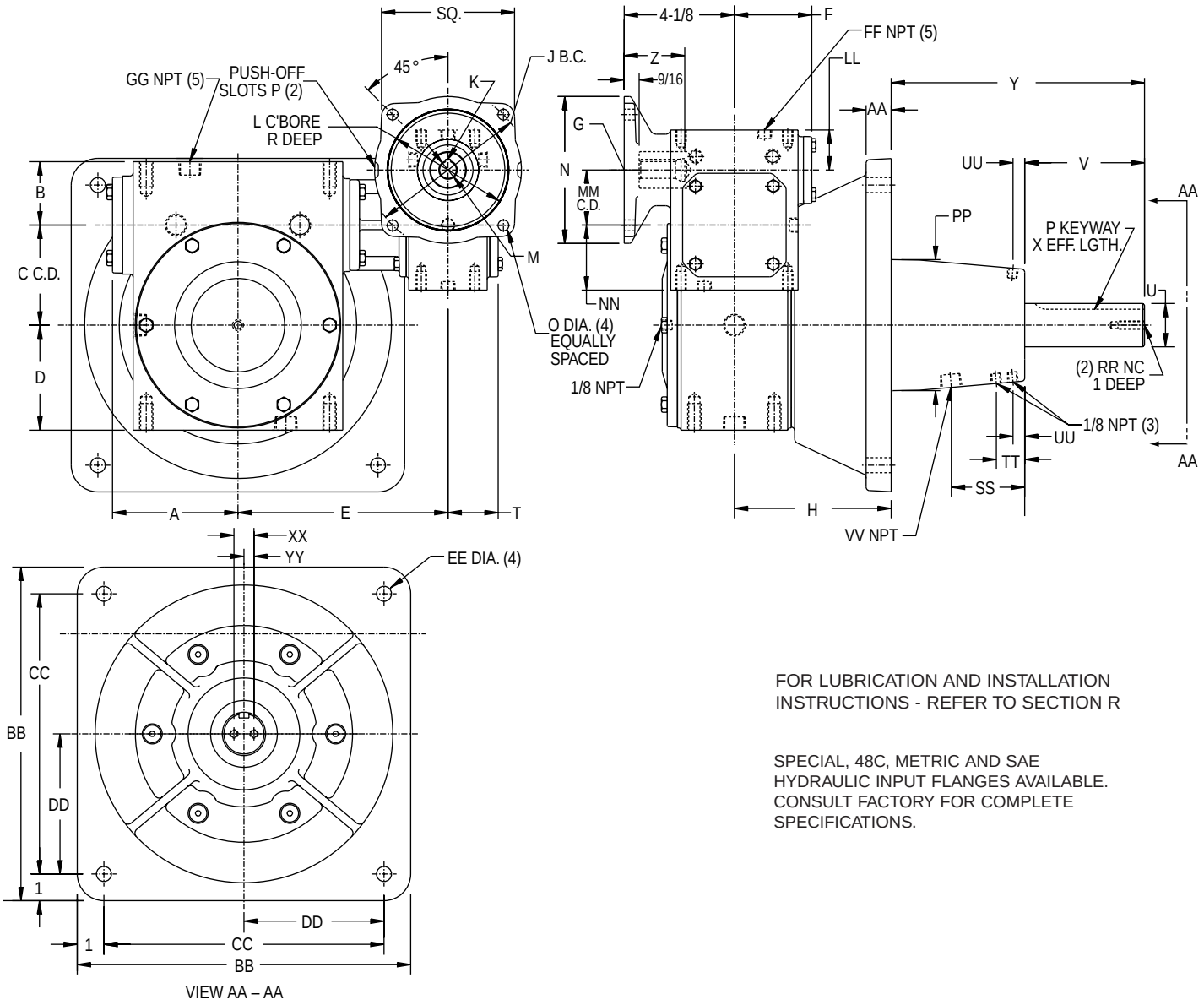
*FLANGE THICKNESS IS 13/16 AT HOLE AREA

MODEL	OUTPUT FLANGE	LL	MM	NN	PP	RR	SS	TT	UU	VV	XX	YY	ZZ	Weight (lbs)
3207	STD	1.499	2.064	2.437	4-3/4	5/16	2-13/16	1	7/16	1/2	3/4	3/8	1	128
	LARGE				4-15/16	5/16	2-3/4	1-1/16	7/16	1/2	3/4	3/8	1	
3807	STD	1.499	2.064	2.437	4-15/16	5/16	2-3/4	1-1/16	7/16	1/2	3/4	3/8	1	157
	LARGE				5-17/32	3/8	3-1/4	1-1/4	1/2	1/2	1	1/2	1	
4507	STD	2.124	3.251	3.250	5-1/2	3/8	3-1/4	1-1/4	1/2	1/2	1	1/2	1	244
5207	STD	2.124	3.251	3.250	6-5/8	3/8	3-3/16	1-3/16	7/16	1/2	1-1/2	3/4	1	292
6007	STD	2.124	3.251	3.250	8-1/2	3/8	3-5/8	1-1/4	7/16	3/4	1-1/2	3/4	1	515
7007	STD	2.374	3.751	3.937	9-1/32	3/8	4	1-5/16	1/2	3/4	2	1	1	709
8007	STD	2.499	4.501	4.625	10-7/16	5/8	4-1/16	1-5/16	1/2	3/4	2-1/8	1-1/16	1-1/2	981

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 3208, 3808, 4508, 5208, 6008, 7008 & 8008



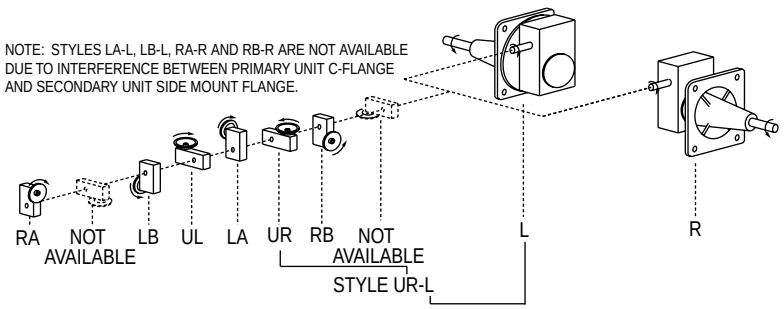
FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

SPECIAL, 48C, METRIC AND SAE HYDRAULIC INPUT FLANGES AVAILABLE. CONSULT FACTORY FOR COMPLETE SPECIFICATIONS.

HUB CITY LUBRICANT RECOMMENDED
(REFER TO PAGE B-125-126)

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360
FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 3208, 3808, 4508, 5208, 6008, 7008 & 8008

Secondary Unit Dimensions

MODEL	PRIMARY	SECONDARY	A	B	C	D	E	OUTPUT FLANGE	U	V	W	X	Y	Z	AA	BB
3208	214	328-143TC	4-3/16	2.124	3.251	3.250	7-1/2	STD	1.4375/1.4365	4-11/16	3/8 X 3/16	3-7/8	9-1/2	5-5/8	3/4	11
								LARGE	1.625/1.624	4-9/16	3/8 X 3/16	3-11/16	9-1/2	5-7/8	31/32	12-1/2
3808	214	388-143TC	4-11/16	2.374	3.751	3.937	7-7/8	STD	1.625/1.624	4-1/2	3/8 X 3/16	3-11/16	9-1/2	5-7/8	15/16	12-1/2
								LARGE	1.6875/1.6865	5-1/2	3/8 X 3/16	4-11/16	10-1/2	6-1/32	*1-1/16	14
4508	324	458-213TC	5-11/16	2.499	4.501	4.625	9-1/8	STD	1.6875/1.6865	5-1/2	3/8 X 3/16	4-11/16	10-1/2	6	*1-1/16	14
5208	324	528-213TC	6-13/32	2.624	5.168	5.375	9-7/8	STD	2.1875/2.1865	5-17/32	1/2 X 1/4	4-7/8	10-1/2	6-1/4	1-7/32	16
6008	324	607	7-9/32	3.250	6.000	6.625	9-13/16	STD	2.4375/2.4365	7-5/8	5/8 X 5/16	6-13/16	15-1/2	8-1/4	1-1/4	19-1/2
7008	384	707	8-3/8	3.875	7.000	7.625	10-31/32	STD	2.9375/2.9365	7-5/8	3/4 X 3/8	6-13/16	15-1/2	10-1/4	1-1/2	22-1/4
8008	454	807	10	4.501	8.000	8.750	12-1/2	STD	3.4375/3.4355	8-5/16	7/8 X 7/16	7-5/8	16-1/8	11-1/4	1-3/4	24-1/4

MODEL	OUTPUT FLANGE	CC	DD	EE	FF	GG	PP	RR	SS	TT	UU	VV	XX	YY	ZZ	Weight (lbs)
3208	STD	9	4-1/2	9/16	1/4	1/2	4-3/4	5/16	2-13/16	1	7/16	1/2	3/4	3/8	1	132
	LARGE	10-1/2	5-1/4	9/16	1/4	1/2	4-15/16	5/16	2-3/4	1-1/16	7/16	1/2	3/4	3/8	1	
3808	STD	10-1/2	5-1/4	9/16	1/4	1/2	4-15/16	5/16	2-3/4	1-1/16	7/16	1/2	3/4	3/8	1	161
	LARGE	12	6	11/16	1/4	1/2	5-17/32	3/8	3-1/4	1-1/4	1/2	1/2	1	1/2	1	
4508	STD	12	6	11/16	1/2	1/2	5-1/2	3/8	3-1/4	1-1/4	1/2	1/2	1	1/2	1	250
5208	STD	14	7	13/16	1/2	1/2	6-5/8	3/8	3-3/16	1-3/16	7/16	1/2	1-1/2	3/4	1	298
6008	STD	17	8-1/2	15/16	1/2	3/4	8-1/2	3/8	3-5/8	1-1/4	7/16	3/4	1-1/2	3/4	1	521
7008	STD	19	9-1/2	1-1/16	1/2	3/4	9-1/32	3/8	4	1-5/16	1/2	3/4	2	1	1	716
8008	STD	21	10-1/2	1-5/16	1/2	3/4	10-7/16	5/8	4-1/16	1-5/16	1/2	3/4	2-1/8	1-1/16	1-1/2	981

*FLANGE THICKNESS IS 13/16 AT HOLE AREA

Primary Unit Dimensions

MODEL	F	G	H	I	J	K	L	M	N	O	P	R	T	LL	MM	NN
3208	2	56C	2-1/4	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-7/8	1.499	2.064	2.437
		143TC	2-3/8					.8755/.8770								
3808	2-29/32	56C	2-1/4	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-7/8	1.499	2.064	2.437
		143TC	2-3/8	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	5-1/2	13/32	SLOTS	13/64				
4508	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
5208	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
6008	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
7008	4-11/16	56C	2-1/4	5-7/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-23/32	2.374	3.751	3.937
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-5/8	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
8008	5-11/16	56C	2-1/4	6-3/4	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	3-1/16	2.499	4.501	4.625
		143TC	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-3/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
		213TC	3-1/2			5/16 X 5/32		1.3755/1.3770								

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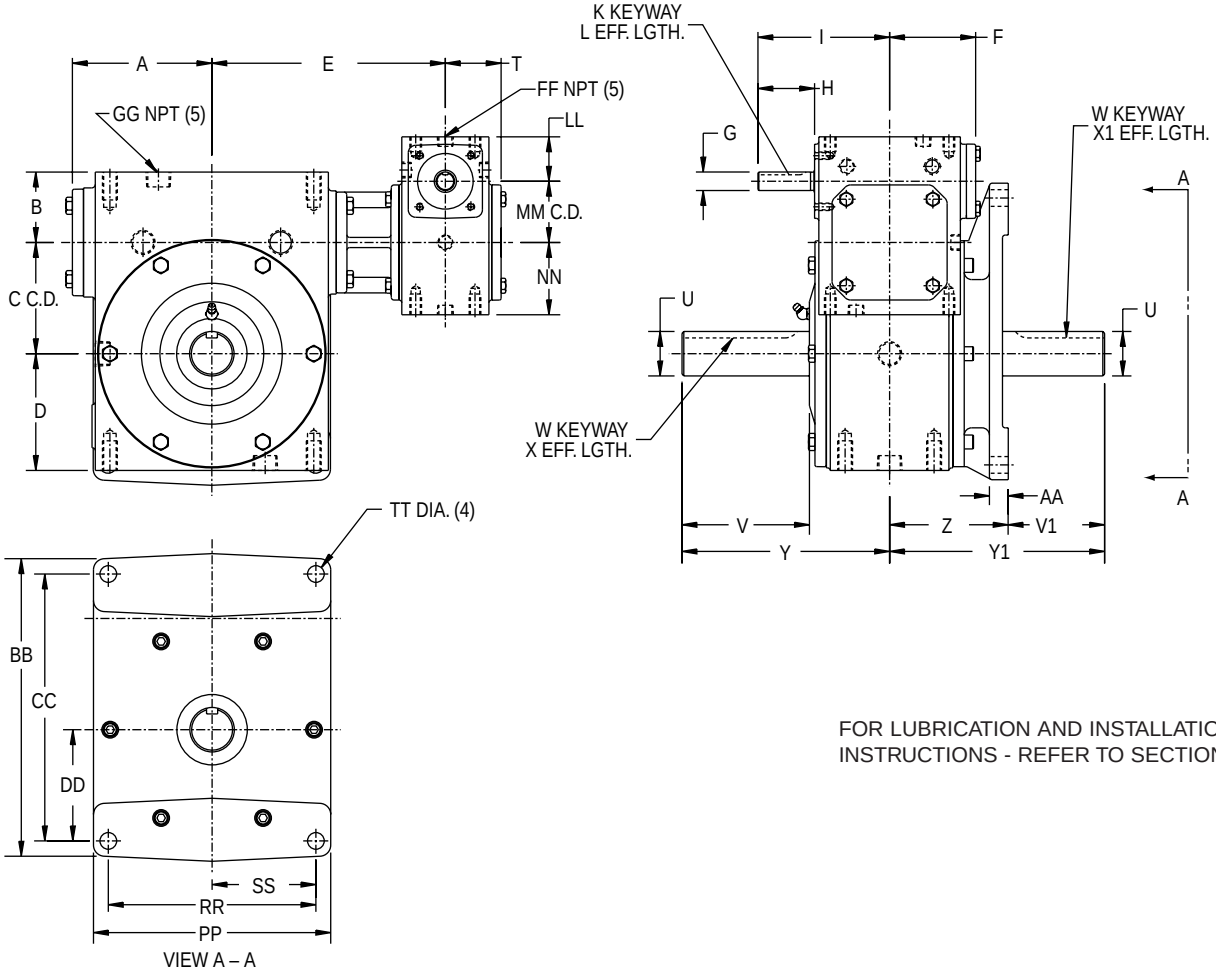
FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

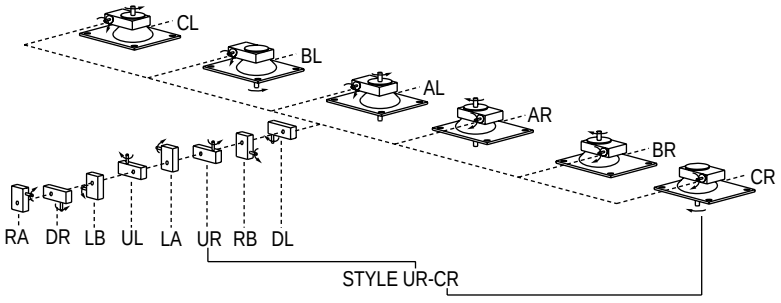
Models 1809, 2109, 2609, 3209, 3809, 4509, 5209, 6009, 7009 & 8009



FOR LUBRICATION AND INSTALLATION
INSTRUCTIONS - REFER TO SECTION R

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360
FAX: (605) 225-0567
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Models 1809, 2109, 2609, 3209, 3809, 4509, 5209, 6009, 7009 & 8009

MODEL	PRIMARY	SECONDARY	A	B	C	D	E	F	G	H	I	K	L
1809	131	180V-56C	2-15/32	1.374	1.751	1.875	4-7/8	2	.500/.499	1-11/16	3-1/2	1/8 X 1/16	1-9/32
2109	131	210V-56C	2-29/32	1.499	2.064	2.437	5-5/8	2	.500/.499	1-11/16	3-1/2	1/8 X 1/16	1-9/32
2609	131	260V-56C	3-13/32	1.874	2.626	2.938	6	2	.500/.499	1-11/16	3-1/2	1/8 X 1/16	1-9/32
3209	211	320V-143TC	4-3/16	2.124	3.251	3.250	7-1/2	2	.625/.624	1-29/32	4-7/16	3/16 X 3/32	1-3/8
3809	211	380V-143TC	4-11/16	2.374	3.751	3.937	7-7/8	2-29/32	.625/.624	1-29/32	4-7/16	3/16 X 3/32	1-3/8
4509	321	450V-213TC	5-11/16	2.499	4.501	4.625	9-1/8	4-3/16	.875/.874	2-9/16	6-3/4	3/16 X 3/32	2
5209	321	520V-213TC	6-13/32	2.624	5.168	5.375	9-7/8	4-3/16	.875/.874	2-9/16	6-3/4	3/16 X 3/32	2
6009	321	609V	7-9/32	3.250	6.000	6.625	9-13/16	4-3/16	.875/.874	2-9/16	6-3/4	3/16 X 3/32	2
7009	381	709V	8-3/8	3.875	7.000	7.625	10-31/32	4-11/16	1.000/.999	2-9/16	7-1/8	1/4 X 1/8	1-29/32
8009	451	809V	10	4.501	8.000	8.750	12-1/2	5-11/16	1.125/1.124	3-7/32	8-7/16	1/4 X 1/8	2-1/2

MODEL	T	U	V	V1	W	X	X1	Y	Y1	Z	AA	BB
1809	1-1/2	.750/.749	2-15/16	2	3/16 X 3/32	2-7/16	1-5/8	4-1/2	4-13/16	2-13/16	3/8	5-3/4
2109	1-1/2	.875/.874	2-7/8	2-1/4	3/16 X 3/32	2-5/16	1-13/16	4-3/4	5-1/2	3-1/4	1/2	6
2609	1-1/2	1.000/.999	3-9/32	2-1/2	1/4 X 1/8	2-7/16	1-7/8	5-3/8	6-1/8	3-5/8	1/2	7-1/2
3209	1-7/8	1.250/1.249	3-1/2	2-3/4	1/4 X 1/8	2-25/32	2-1/16	5-7/8	6-1/2	3-3/4	19/32	8-3/4
3809	1-7/8	1.500/1.499	4-5/16	3-1/4	3/8 X 3/16	3-15/32	2-19/32	7	7-1/4	4	5/8	10
4509	2-3/8	1.750/1.749	5-7/16	3-3/4	3/8 X 3/16	4-19/32	3-1/32	8-1/2	8-3/4	5	3/4	12-19/32
5209	2-3/8	2.000/1.999	5-21/32	4-1/4	1/2 X 1/4	5-1/8	3-3/4	9	9-3/4	5-1/2	3/4	16-27/32
6009	2-3/8	2.250/2.249	4-5/8	4-1/2	1/2 X 1/4	4-1/2	4-1/2	9-3/4	10-1/2	6	3/4	20-1/2
7009	2-23/32	2.750/2.751	6-1/16	5-1/2	5/8 X 5/16	5-5/8	5-1/2	11-3/4	13-1/2	8	1	25
8009	3-1/16	3.250/3.248	8-1/2	6-1/2	3/4 X 3/8	7-7/8	6-1/8	15	16-1/2	10	1-1/4	30

MODEL	CC	DD	FF	GG	LL	MM	NN	PP	RR	SS	TT	Weight (lbs)
1809	5	2-1/8	1/8	1/8	1.186	1.334	1.562	4-3/4	4	2	13/32	27
2109	5-1/4	2-1/8	1/8	1/4	1.186	1.334	1.562	4-3/4	4	2	13/32	40
2609	6-3/4	2-7/8	1/8	1/4	1.186	1.334	1.562	6-3/4	5-3/4	2-7/8	13/32	53
3209	7-3/4	3-1/4	1/4	1/2	1.499	2.064	2.437	7-1/4	6-1/4	3-1/8	9/16	95
3809	9	3-3/4	1/4	1/2	1.499	2.064	2.437	8	7	3-1/2	9/16	115
4509	11	5	1/2	1/2	2.124	3.251	3.250	11-19/32	10	5	11/16	183
5209	15-1/4	6-3/4	1/2	1/2	2.124	3.251	3.250	12-19/32	11	5-1/2	11/16	212
6009	18-1/2	7-1/2	1/2	3/4	2.124	3.251	3.250	14	12	6	13/16	370
7009	22-1/2	10	1/2	3/4	2.374	3.751	3.937	17-1/2	15	7-1/2	1-1/16	530
8009	27	11-1/2	1/2	3/4	2.499	4.501	4.625	22-1/2	19-1/2	9-3/4	1-5/16	745

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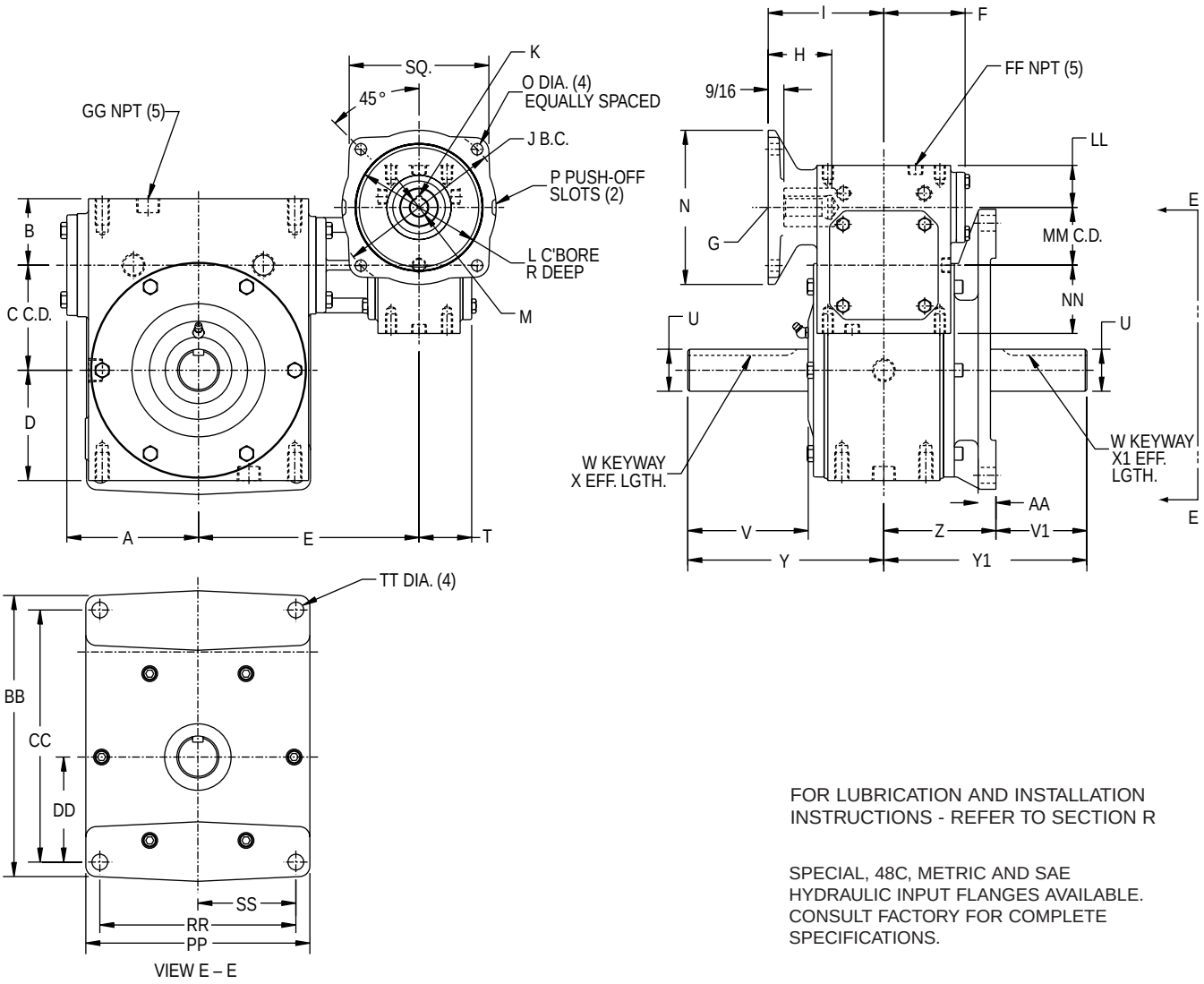
Models 1810, 2110, 2610, 3210, 3810, 4510, 5210, 6010, 7010 & 8010



FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

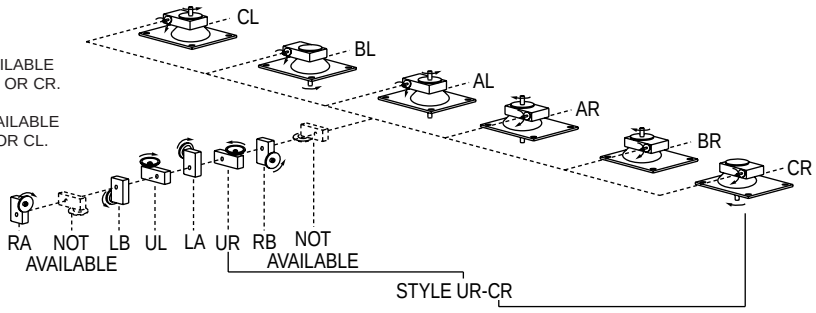
SPECIAL, 48C, METRIC AND SAE HYDRAULIC INPUT FLANGES AVAILABLE. CONSULT FACTORY FOR COMPLETE SPECIFICATIONS.

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.

PRIMARY STYLES LB & LA NOT AVAILABLE WITH SECONDARY STYLES AR, BR, OR CR.

PRIMARY STYLES RA & RB NOT AVAILABLE WITH SECONDARY STYLES AL, BL OR CL.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

FAX: (605) 225-0567

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FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 1810, 2110, 2610, 3210, 3810, 4510, 5210, 6010, 7010 & 8010

Secondary Unit Dimensions

MODEL	PRIMARY	SECONDARY	A	B	C	D	E	U	V	V1	W	X	X1
1810	134	180V-56C	2-15/32	1.374	1.751	1.875	4-7/8	.750/.749	2-15/16	2	3/16 X 3/32	2-7/16	1-5/8
2110	134	210V-56C	2-29/32	1.499	2.064	2.437	5-5/8	.875/.874	2-7/8	2-1/4	3/16 X 3/32	2-5/16	1-13/16
2610	134	260V-56C	3-13/32	1.874	2.626	2.938	6	1.000/.999	3-9/32	2-1/2	1/4 X 1/8	2-7/16	1-7/8
3210	214	320V-143TC	4-3/16	2.124	3.251	3.250	7-1/2	1.250/1.249	3-1/2	2-3/4	1/4 X 1/8	2-25/32	2-1/16
3810	214	380V-143TC	4-11/16	2.374	3.751	3.937	7-7/8	1.500/1.499	4-5/16	3-1/4	3/8 X 3/16	3-15/32	2-19/32
4510	324	450V-213TC	5-11/16	2.499	4.501	4.625	9-1/8	1.750/1.749	5-7/16	3-3/4	3/8 X 3/16	4-19/32	3-1/32
5210	324	520V-213TC	6-13/32	2.624	5.168	5.375	9-7/8	2.000/1.999	5-21/32	4-1/4	1/2 X 1/4	5-1/8	3-3/4
6010	324	609V	7-9/32	3.250	6.000	6.625	9-13/16	2.250/2.249	4-5/8	4-1/2	1/2 X 1/4	4-1/2	4-1/2
7010	384	709V	8-3/8	3.875	7.000	7.625	10-31/32	2.750/2.751	6-1/16	5-1/2	5/8 X 5/16	5-5/8	5-1/2
8010	454	809V	10	4.501	8.000	8.750	12-1/2	3.250/3.248	8-1/2	6-1/2	3/4 X 3/8	7-7/8	6-1/8

MODEL	Y	Y1	Z	AA	BB	CC	DD	FF	GG	PP	RR	SS	TT	Wt. Lbs.
1810	4-1/2	4-13/16	2-13/16	3/8	5-3/4	5	2-1/8	1/8	1/8	4-3/4	4	2	13/32	37
2110	4-3/4	5-1/2	3-1/4	1/2	6	5-1/4	2-1/8	1/8	1/4	4-3/4	4	2	13/32	44
2610	5-3/8	6-1/8	3-5/8	1/2	7-1/2	6-3/4	2-7/8	1/8	1/4	6-3/4	5-3/4	2-7/8	13/32	57
3210	5-7/8	6-1/2	3-3/4	19/32	8-3/4	7-3/4	3-1/4	1/4	1/2	7-1/4	6-1/4	3-1/8	9/16	99
3810	7	7-1/4	4	5/8	10	9	3-3/4	1/4	1/2	8	7	3-1/2	9/16	119
4510	8-1/2	8-3/4	5	3/4	12-19/32	11	5	1/2	1/2	11-19/32	10	5	11/16	189
5210	9	9-3/4	5-1/2	3/4	16-27/32	15-1/4	6-3/4	1/2	1/2	12-19/32	11	5-1/2	11/16	218
6010	9-3/4	10-1/2	6	3/4	20-1/2	18-1/2	7-1/2	1/2	3/4	14	12	6	13/16	376
7010	11-3/4	13-1/2	8	1	25	22-1/2	10	1/2	3/4	17-1/2	15	7-1/2	1-1/16	537
8010	15	16-1/2	10	1-1/4	30	27	11-1/2	1/2	3/4	22-1/2	19-1/2	9-3/4	1-5/16	753

Primary Unit Dimensions

MODEL	F	G	H	I	J	K	L	M	N	O	P	R	T	LL	MM	NN
1810	2	56C	2-9/32	3-3/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-1/2	1.186	1.334	1.562
2110	2	56C	2-9/32	3-3/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-1/2	1.186	1.334	1.562
2610	2	56C	2-9/32	3-3/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-1/2	1.186	1.334	1.562
3210	2	56C	2-1/4	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-7/8	1.499	2.064	2.437
		143TC	2-3/8					.8755/.8770								
3810	2-29/32	56C	2-1/4	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	5-1/2	13/32	SLOTS	13/64	1-7/8	1.499	2.064	2.437
		143TC	2-3/8	4-1/8	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	5-1/2	13/32	SLOTS	13/64				
4510	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
5210	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
6010	4-3/16	56C	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-3/8	2.124	3.251	3.250
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-1/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
7010	4-11/16	56C	2-1/4	5-7/8	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	2-23/32	2.374	3.751	3.937
		143TC	2-3/8	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-5/8	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
8010	5-11/16	56C	2-1/4	6-3/4	5-7/8	3/16 X 3/32	4.501/4.503	.6255/.6270	6-1/2	13/32	SLOTS	7/16	3-1/16	2.499	4.501	4.625
		143TC	2-1/4	5-1/2	5-7/8	3/16 X 3/32	4.501/4.503	.8755/.8770	6-1/2	13/32	SLOTS	7/16				
		182TC	3-3/16	6-3/4	7-1/4	1/4 X 1/8	8.501/8.504	1.1255/1.1270	9	17/32	HOLES	7/16				
		213TC	3-1/2			5/16 X 5/32		1.3755/1.3770								

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Notes

CALL: (605) 225-0360

FAX: (605) 225-0567

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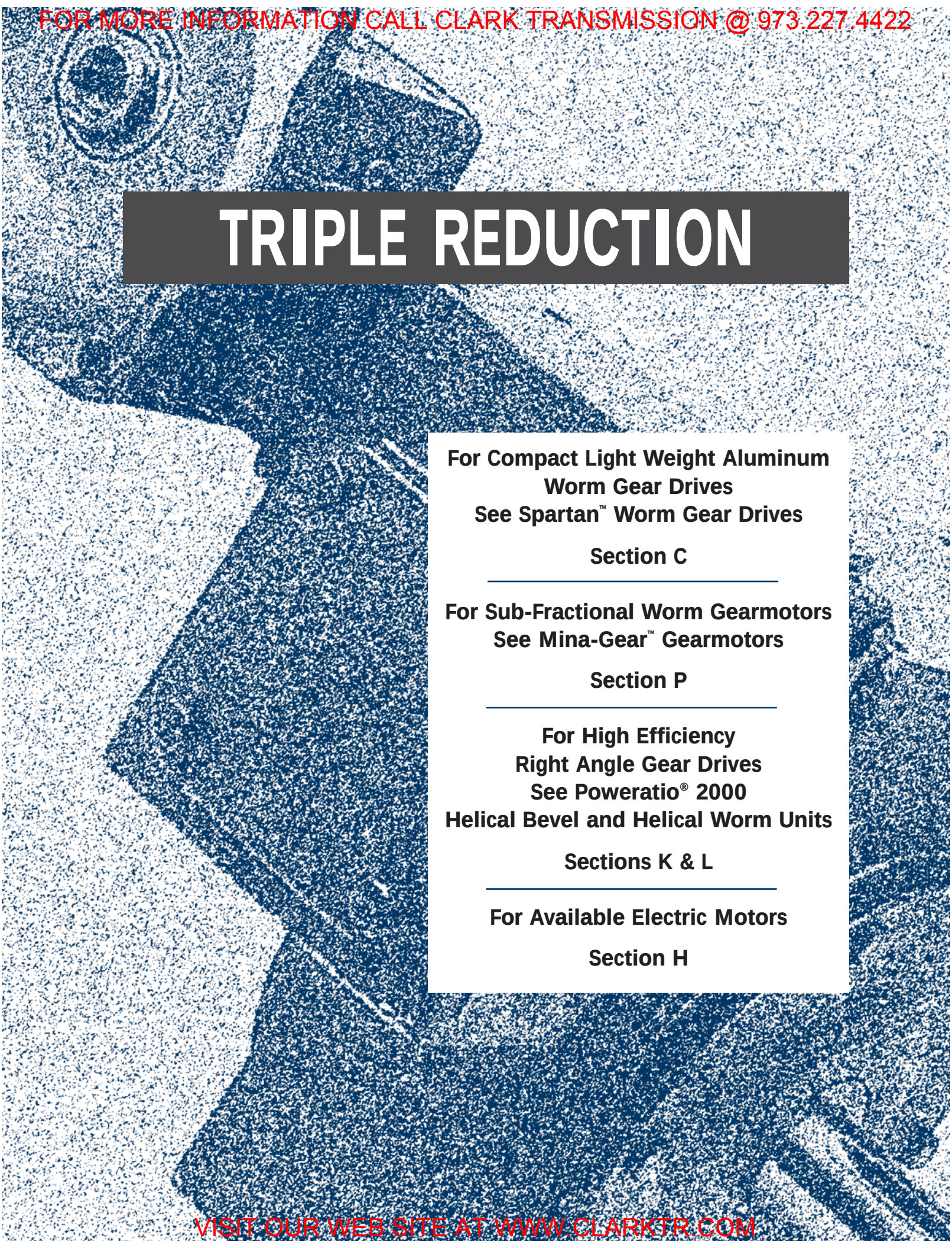
FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422



TRIPLE REDUCTION

For Compact Light Weight Aluminum Worm Gear Drives
See Spartan™ Worm Gear Drives

Section C

For Sub-Fractional Worm Gearmotors
See Mina-Gear™ Gearmotors

Section P

For High Efficiency Right Angle Gear Drives
See Poweratio® 2000 Helical Bevel and Helical Worm Units

Sections K & L

For Available Electric Motors

Section H

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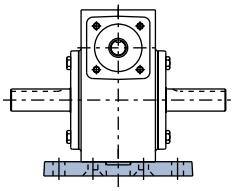
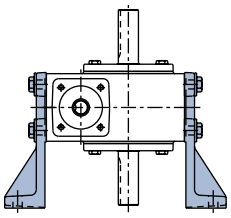
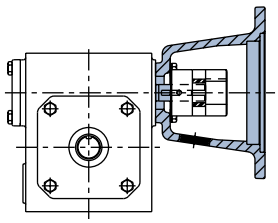
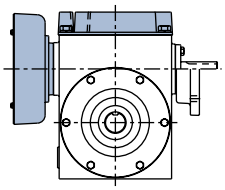
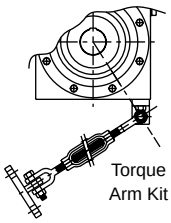
For Accessories Refer to Page B-91 to B-98


Universal Base Kits


Side Mounting Kits


NEMA "C" Flange Adaptor Kits


Fan Kits & Thermal Block Kits


Torque Arm Kit

LUBRICATION AND MOUNTING POSITIONS

Follow the lubrication instructions that are furnished for the Primary, Intermediate and Final Drive of your Hub City Triple Reduction Worm Gear Reducer.

The three units that make up the Triple Reduction Assembly have independent oil reservoirs and each must be filled to the specified level of oil indicated in the lubrication instructions.

CAUTION : The Triple Reduction Worm Gear Reducer may be mounted in virtually any position. However, if the final mounting position is such that any of the shafts is in a vertical position, it is suggested that you consult the factory or your Hub City Distributor for special lubrication instructions

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FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Series 2650-5250, Rating Tables, 1750 RPM Input Speed

RATIO	OUTPUT SPEED (RPM)	RATIO COMBINATION			2650 SERIES 130-130-260		3250 SERIES 130-210-320		3850 SERIES 130-210-380		4550 SERIES 210-320-450		5250 SERIES 210-320-520	
		PRI-MARY	INTER-MEDIATE	FINAL	INPUT H.P.	TORQUE OUTPUT IN. LBS.	INPUT H.P.	TORQUE OUTPUT IN. LBS.	INPUT H.P.	TORQUE OUTPUT IN. LBS.	INPUT H.P.	TORQUE OUTPUT IN. LBS.	INPUT H.P.	TORQUE OUTPUT IN. LBS.
1000	1.75	5	10	20	.170	2510	.317	4840	.447	7350	.694	12340	1.01	18730
1500	1.17	5	10	30	.139	2290	.293	5420	.442	8720	.637	13620	.879	19980
2000	.875	5	20	20	.108	2510	.197	4840	.276	7350	.421	12340	.588	18080
3000	.583	5	20	30	.091	2290	.187	5420	.279	8720	.398	13620	.546	19980
4000	.438	10	20	20	.0678	2510	.127	4840	.177	7350	.267	12340	.370	18080
5000	.350	10	25	20	.0612	2510	.110	4840	.154	7350	.232	12340	.334	18810
6000	.292	10	20	30	.0592	2290	.124	5420	.186	8720	.257	13620	.354	19980
7500	.233	10	25	30	.0537	2290	.108	5420	.167	8980	.225	13620	.310	19980
10000	.175	20	25	20	.0383	2510	.070	4840	.098	7350	.148	12340	.204	18080
12000	.146	20	20	30	.0376	2290	.080	5420	.120	8720	.167	13620	.229	19980
15000	.117	20	25	30	.0345	2290	.070	5420	.105	8720	.145	13620	.200	19980
20000	.0875	50	20	20	.0260	2510	.051	4840	.070	7350	.102	12340	.140	18080
24000	.0729	20	40	30	.0277	2290	.058	5420	.088	8720	.116	13620	.159	19980
30000	.0583	50	20	30	.0236	2290	.051	5420	.076	8720	.101	13620	.139	19980
40000	.0438	50	40	20	.0197	2510	.038	4840	.052	7350	.073	12340	.101	18080
50000	.0350	50	50	20	.0190	2510	.033	4840	.046	7350	.067	12340	.091	18080
60000	.0292	50	40	30	.0179	2290	.038	5420	.057	8720	.073	13620	.100	19980
75000	.0233	50	50	30	.0173	2290	.033	5420	.050	8720	.066	13620	.090	19980
80000	.0219	50	40	40	.0140	2380	.030	4880	.041	7460	.056	12570	.074	17870
90000	.0194	60	50	30	.0163	2290	.032	5420	.048	8720	.066	13620	.090	19980
100000	.0175	50	50	40	.0135	2380	.027	4880	.036	7460	.051	12570	.066	17870
120000	.0146	60	50	40	.0127	2380	.025	4880	.034	7460	.051	12570	.066	17870
150000	.0117	60	50	50	.0078	1780	.018	3740	.023	5620	.035	9570	.045	13610
180000	.0097	60	60	50	.0076	1780	.018	3740	.024	5620	.032	9570	.042	13610
216000	.0081	60	60	60	.0085	1500	.014	3030	.018	4540	.024	7610	.030	10830

FOR MOTOR SELECTION
REFER TO SECTION H

CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Series 60T-80T, Rating Tables, 1750 RPM Input Speed

RATIO	OUTPUT SPEED (RPM)	RATIO COMBINATION			60T SERIES 210-320-60		70T SERIES 210-380-70		80T SERIES 320-450-80	
		PRI-MARY	INTER-MEDIATE	FINAL	INPUT H.P.	TORQUE OUTPUT IN. LBS.	INPUT H.P.	TORQUE OUTPUT IN. LBS.	INPUT H.P.	TORQUE OUTPUT IN. LBS.
1000	1.75	5	10	20	1.39	28120	1.95	40710	2.65	56100
1500	1.17	5	15	20	1.00	28120	1.51	40710	1.90	56100
2000	.875	5	20	20	.800	28120	1.11	40710	1.51	56100
3000	.583	10	15	20	.584	28120	.816	40710	1.10	56100
4000	.438	10	20	20	.472	28120	.648	40710	.866	56100
5000	.350	25	10	20	.408	28120	.568	40710	.781	56100
6000	.292	15	20	20	.365	28120	.448	40710	.661	56100
7500	.233	25	15	20	.308	28120	.436	40710	.582	56100
10000	.175	25	20	20	.254	28120	.356	40710	.460	56100
12000	.146	20	20	30	.238	27730	.334	40400	.432	55260
15000	.117	25	20	30	.205	27730	.287	40110	.371	55260
20000	.0875	50	20	20	.178	28120	.250	40710	.322	56100
24000	.0729	20	40	30	.167	27730	.230	40110	.286	55260
30000	.0583	25	30	40	.140	27990	.201	40530	.253	55850
40000	.0438	50	40	20	.128	28120	.176	40710	.220	56100
50000	.0350	50	50	20	.116	28120	.157	40710	.196	56100
60000	.0292	50	30	40	.100	27990	.144	40530	.181	55850
75000	.0233	50	50	30	.094	27730	.129	40110	.160	55260
80000	.0219	50	40	40	.087	27990	.121	40530	.149	55850
90000	.0194	60	50	30	.094	27730	.129	40110	.150	55260
100000	.0175	50	50	40	.078	27990	.109	40530	.133	55850
120000	.0146	60	50	40	.078	27990	.108	40530	.124	55850
150000	.0117	60	50	50	.053	22120	.081	34780	.103	52320
180000	.0097	60	60	50	.050	22120	.075	34780	.092	52320
216000	.0081	60	60	60	.036	17530	.055	27720	.067	41900

FOR MOTOR SELECTION
REFER TO SECTION H

CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

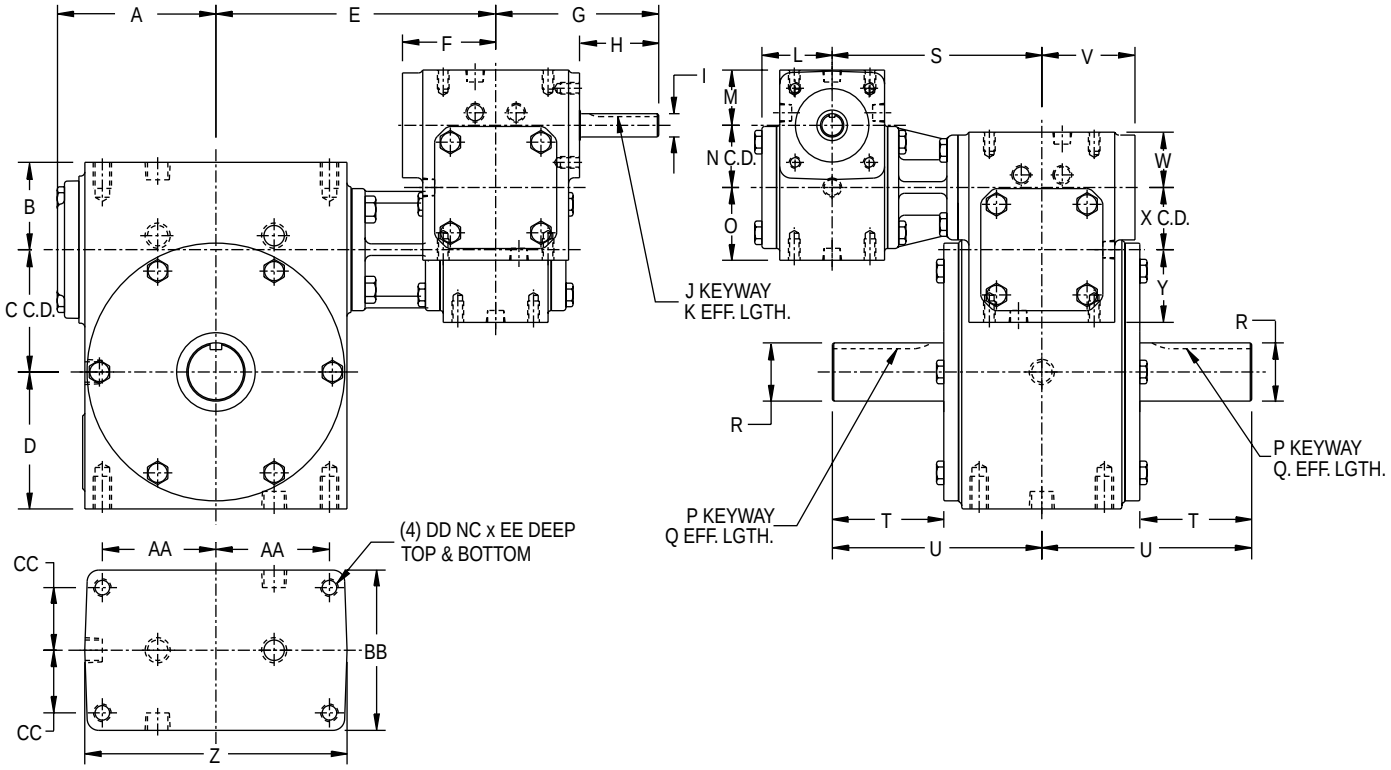
HUB CITY

FAX: (605) 225-0567

VISIT OUR WEB SITE AT WWW.CLARKTR.COM

FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 2651, 3251, 3851, 4551, 5251, 6051, 7051, & 8051

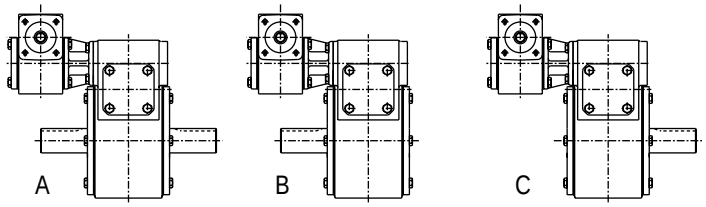


MODEL	PRIMARY	INTER-MEDIATE	FINAL	A	B	C	D	E	F	G	H	I	J	K	L	M	N
2651	131	134	264	3-13/32	1.874	2.626	2.938	6	2	3-1/2	1-11/16	.500/.499	1/8 X 1/16	1-9/32	1-15/32	1.186	1.334
3251	131	214	324	4-3/16	2.124	3.251	3.250	7-1/2	2	3-1/2	1-11/16	.500/.499	1/8 X 1/16	1-9/32	1-15/32	1.186	1.334
3851	131	214	384	4-11/16	2.374	3.751	3.937	7-7/8	2	3-1/2	1-11/16	.500/.499	1/8 X 1/16	1-9/32	1-15/32	1.186	1.334
4551	211	324	454	5-11/16	2.499	4.501	4.625	9-1/8	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8	1-7/8	1.499	2.064
5251	211	324	524	6-13/32	2.624	5.168	5.375	9-7/8	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8	1-7/8	1.499	2.064
6051	211	324	601	7-9/32	3.250	6.000	6.625	9-13/16	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8	1-7/8	1.499	2.064
7051	211	384	701	8-3/8	3.875	7.000	7.625	10-31/32	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8	1-7/8	1.499	2.064
8051	321	454	801	10	4.500	8.000	8.750	12-1/2	4-3/16	6-3/4	2-9/16	.875/.874	3/16 X 3/32	2	2-3/8	2.124	3.251

MODEL	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE
2651	1.562	1/4 X 1/8	1-25/32	1.250/1.249	4-1/2	2-13/32	4-1/2	2	1.186	1.334	1.562	5-5/8	2-7/16	3-7/16	1-11/32	3/8	9/16 TOP 11/16 BOTTOM
3251	1.562	5/16 X 5/32	2-5/16	1.375/1.374	5-5/8	3-1/16	5-7/16	2-29/32	1.499	2.064	2.437	7-3/8	3-1/8	3-13/16	1-3/8	1/2	3/4 TOP 29/32 BOTTOM
3851	1.562	3/8 X 3/16	3-5/32	1.500/1.499	5-5/8	4	6-11/16	2-29/32	1.499	2.064	2.437	8	3-7/16	4	1-1/2	1/2	15/16 TOP 1 BOTTOM
4551	2.437	3/8 X 3/16	3-9/32	1.625/1.624	7-1/2	4-3/16	7-1/4	4-3/16	2.124	3.251	3.250	9-1/4	4-1/16	4-5/8	1-5/8	5/8	7/8 TOP 1-1/8 BOTTOM
5251	2.437	3/8 X 3/16	3-1/2	1.750/1.749	7-1/2	4-15/32	7-13/16	4-3/16	2.124	3.251	3.250	10-3/4	4-3/4	5-1/16	1-7/8	5/8	1 TOP 1-1/4 BOTTOM
6051	2.437	1/2 X 1/4	4-1/2	2.250/2.249	7-1/2	5-1/8	10-1/4	4-3/16	2.124	3.251	3.250	13-1/4	5-1/2	6-3/4	2-7/16	7/8	1-7/8 TOP & BOTTOM
7051	2.437	5/8 X 5/16	5	2.750/2.749	7-7/8	5-7/16	11-1/8	4-11/16	2.374	3.751	3.937	15-3/16	6-1/4	7-3/4	2-3/4	1	2 TOP & BOTTOM
8051	3.250	3/4 X 3/8	5-5/8	3.250/3.248	9-1/8	6-1/4	12-3/4	5-11/16	2.499	4.501	4.625	17-3/4	7-3/8	9	3-1/4	1	2 TOP & BOTTOM

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

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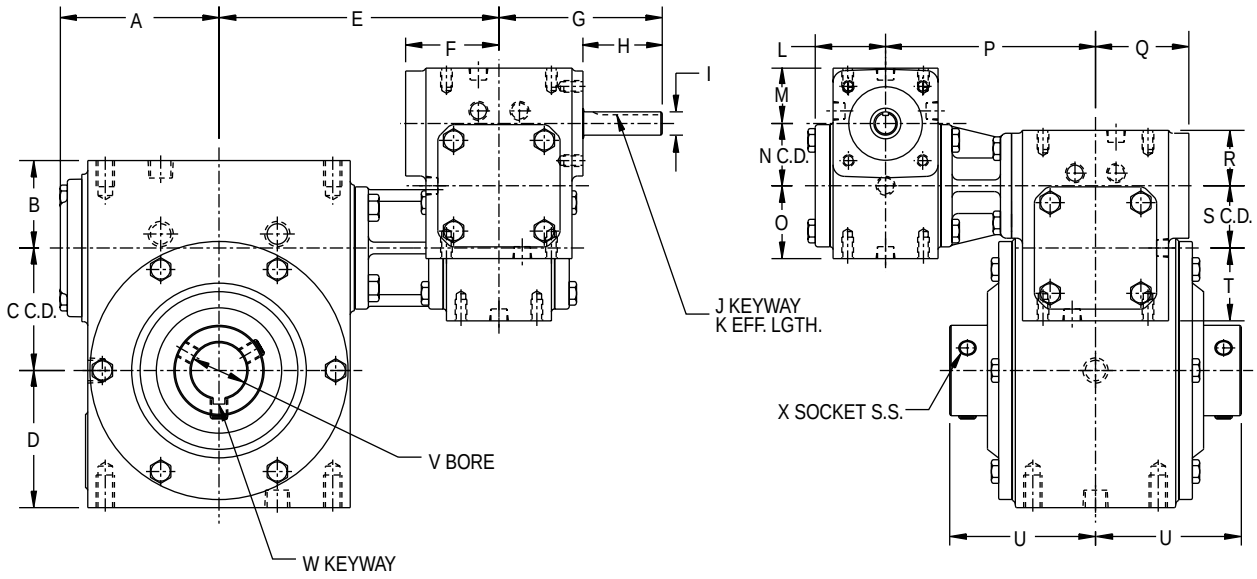
FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 2652, 3252, 3852, 4552, 5252, 6052, & 7052



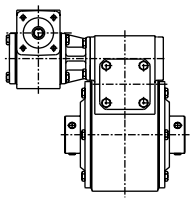
SHAFT MOUNTED UNITS REQUIRE TORQUE ARMS. TORQUE ARM KITS ARE AVAILABLE, SEE PAGE B-97.

MODEL	PRIMARY	INTER-MEDIATE	FINAL	A	B	C	D	E	F	G	H	I	J	K	L	M	N
2652	131	134	265	3-13/32	1.874	2.626	2.938	6	2	3-1/2	1-11/16	.500/.499	1/8 X 1/16	1-9/32	1-15/32	1.186	1.334
3252	131	214	325	4-3/16	2.124	3.251	3.250	7-1/2	2	3-1/2	1-11/16	.500/.499	1/8 X 1/16	1-9/32	1-15/32	1.186	1.334
3852	131	214	385	4-11/16	2.374	3.751	3.937	7-7/8	2	3-1/2	1-11/16	.500/.499	1/8 X 1/16	1-9/32	1-15/32	1.186	1.334
4552	211	324	455	5-11/16	2.499	4.501	4.625	9-1/8	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8	1-7/8	1.499	2.064
5252	211	324	525	6-13/32	2.624	5.168	5.375	9-7/8	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8	1-7/8	1.499	2.064
6052	211	324	602	7-9/32	3.250	6.000	6.625	9-13/16	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8	1-7/8	1.499	2.064
7052	211	384	702	8-3/8	3.875	7.000	7.625	10-31/32	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8	1-7/8	1.499	2.064

MODEL	O	P	Q	R	S	T	U	V	W	X
2652	1.562	4-1/2	2	1.186	1.334	1.562	3-1/8	MODEL 265 PAGE B-31	MODEL 265 PAGE B-31	MODEL 265 PAGE B-31
3252	1.562	5-5/8	2-29/32	1.499	2.064	2.437	3-25/32	MODEL 325 PAGE B-31	MODEL 325 PAGE B-31	MODEL 325 PAGE B-31
3852	1.562	5-5/8	2-29/32	1.499	2.064	2.437	3-25/32	MODEL 385 PAGE B-31	MODEL 385 PAGE B-31	MODEL 385 PAGE B-31
4552	2.437	7-1/2	4-3/16	2.124	3.251	3.250	5	MODEL 455 PAGE B-31	MODEL 455 PAGE B-31	—
5252	2.437	7-1/2	4-3/16	2.124	3.251	3.250	5-9/16	MODEL 525 PAGE B-31	MODEL 525 PAGE B-31	—
6052	2.437	7-1/2	4-3/16	2.124	3.251	3.250	7-3/16	MODEL 602 PAGE B-25	MODEL 602 PAGE B-25	—
7052	2.437	7-7/8	4-11/16	2.374	3.751	3.937	8-1/16	MODEL 702 PAGE B-25	MODEL 702 PAGE B-25	—

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

FAX: (605) 225-0567

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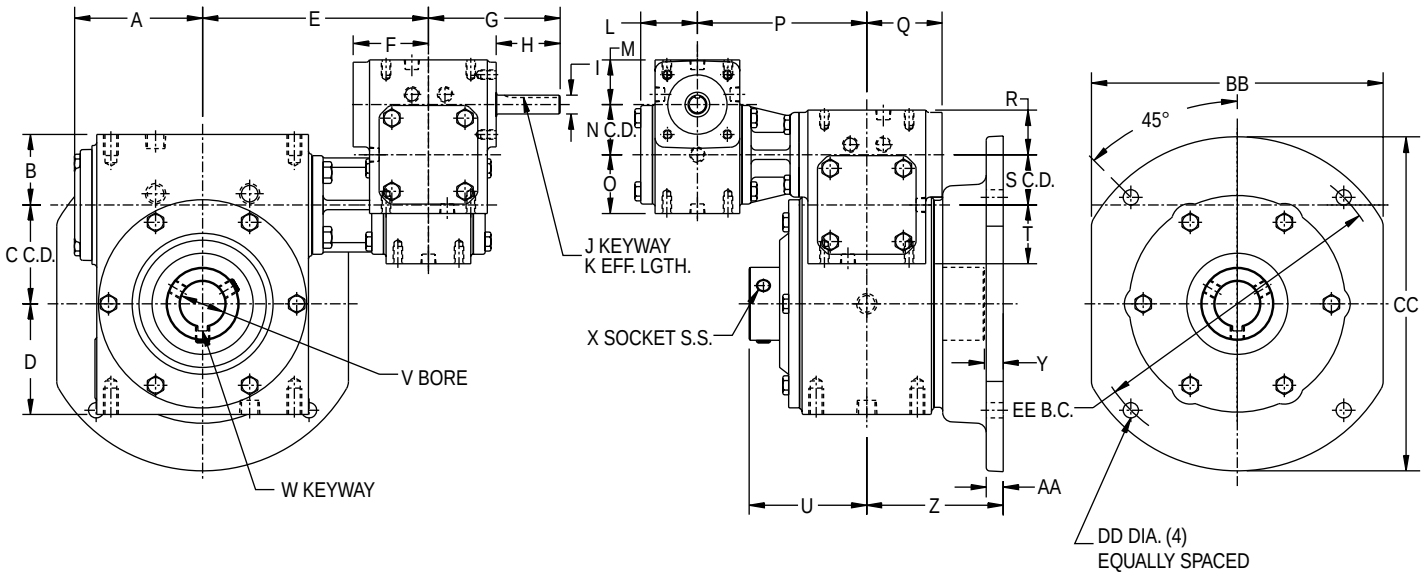
FOR MORE INFORMATION CALL CLARK TRANSMISSION @ 973.227.4422

Models 2653, 3253, 3853, 4553, 5253, & 6053

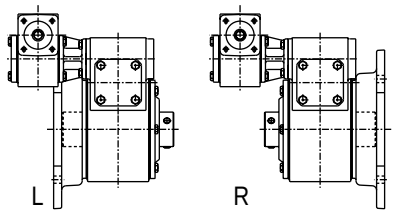


MODEL	PRIMARY	INTER-MEDIATE	FINAL	A	B	C	D	E	F	G	H	I	J	K	L	M	N
2653	131	134	266	3-13/32	1.874	2.626	2.938	6	2	3-1/2	1-11/16	.500/.499	1/8 X 1/16	1-9/32	1-15/32	1.186	1.334
3253	131	214	326	4-3/16	2.124	3.251	3.250	7-1/2	2	3-1/2	1-11/16	.500/.499	1/8 X 1/16	1-9/32	1-15/32	1.186	1.334
3853	131	214	386	4-11/16	2.374	3.751	3.937	7-7/8	2	3-1/2	1-11/16	.500/.499	1/8 X 1/16	1-9/32	1-15/32	1.186	1.334
4553	211	324	456	5-11/16	2.499	4.501	4.625	9-1/8	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8	1-7/8	1.499	2.064
5253	211	324	526	6-13/32	2.624	5.168	5.375	9-7/8	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8	1-7/8	1.499	2.064
6053	211	324	603	7-9/32	3.250	6.000	6.625	9-13/16	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8	1-7/8	1.499	2.064

MODEL	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE
2653	1.562	4-1/2	2	1.186	1.334	1.562	3-1/8	MODEL 266 PAGE B-33	MODEL 266 PAGE B-33	MODEL 266 PAGE B-33	1/2	3-5/8	7/16	7-3/4	8-7/8	13/32	8
3253	1.562	5-5/8	2-29/32	1.499	2.064	2.437	3-25/32	MODEL 326 PAGE B-33	MODEL 326 PAGE B-33	MODEL 326 PAGE B-33	7/32	4	1/2	8	10	13/32	9
3853	1.562	5-5/8	2-29/32	1.499	2.064	2.437	3-25/32	MODEL 386 PAGE B-33	MODEL 386 PAGE B-33	MODEL 386 PAGE B-33	23/32	4-1/2	1/2	9	11	9/16	10
4553	2.437	7-1/2	4-3/16	2.124	3.251	3.250	5	MODEL 456 PAGE B-33	MODEL 456 PAGE B-33	—	3/4	5-3/4	5/8	12-1/4	14-1/4	11/16	13
5253	2.437	7-1/2	4-3/16	2.124	3.251	3.250	5-9/16	MODEL 526 PAGE B-33	MODEL 526 PAGE B-33	—	1-7/16	7	3/4	12-1/2	15-1/2	11/16	14
6053	2.437	7-1/2	4-3/16	2.124	3.251	3.250	7-3/16	MODEL 603 PAGE B-27	MODEL 603 PAGE B-27	—	13/16	8	7/8	15	18	13/16	16

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



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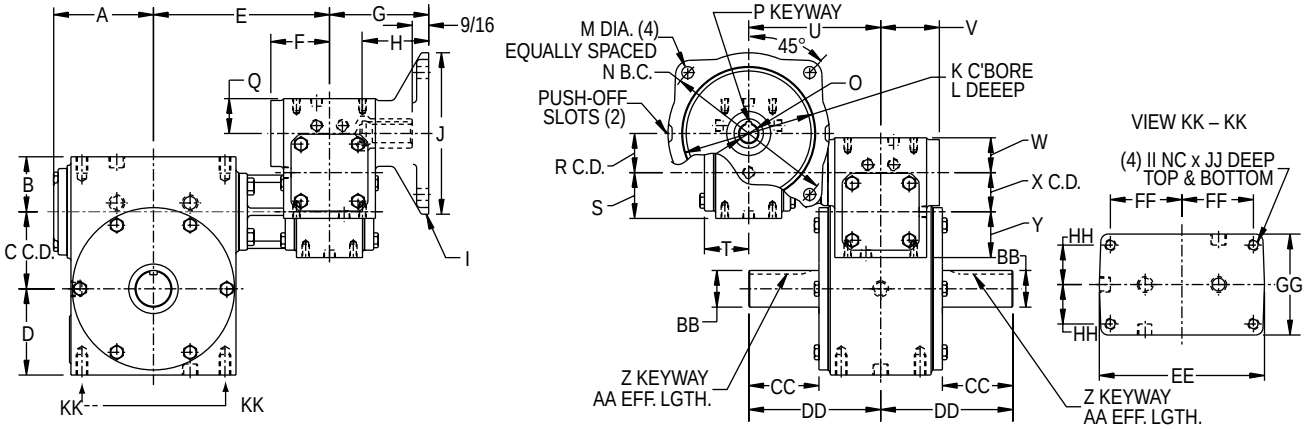
Models 2654, 3254, 3854, 4554, 5254, 6054, 7054, & 8054



MODEL	PRIMARY	INTER-MEDIATE	FINAL	A	B	C	D	E	F	G	H	I	J	K
2654	134	134	264	3-13/32	1.874	2.626	2.938	6	2	3-3/8	2-9/32	56C	5-1/2	4.501/4.503
3254	134	214	324	4-3/16	2.124	3.251	3.250	7-1/2	2	3-3/8	2-9/32	56C	5-1/2	4.501/4.503
3854	134	214	384	4-11/16	2.374	3.751	3.937	7-7/8	2	3-3/8	2-9/32	56C	5-1/2	4.501/4.503
4554	214	324	454	5-11/16	2.499	4.501	4.625	9-1/8	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	5-1/2	4.501/4.503
5254	214	324	524	6-13/32	2.624	5.168	5.375	9-7/8	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	5-1/2	4.501/4.503
6054	214	324	601	7-9/32	3.250	6.000	6.625	9-13/16	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	5-1/2	4.501/4.503
7054	214	384	701	8-3/8	3.875	7.000	7.625	10-31/32	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	5-1/2	4.501/4.503
8054	324	454	801	10	4.500	8.000	8.750	12-1/2	4-3/16	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29

MODEL	L	M	N	O	P	Q	R	S	T	U	V	W	X
2654	13/64	13/32	5.875	.6255/.6270	3/16 X 3/32	1.186	1.334	1.562	1-15/32	4-1/2	2	1.186	1.334
3254	13/64	13/32	5.875	.6255/.6270	3/16 X 3/32	1.186	1.334	1.562	1-15/32	5-5/8	2-29/32	1.499	2.064
3854	13/64	13/32	5.875	.6255/.6270	3/16 X 3/32	1.186	1.334	1.562	1-15/32	5-5/8	2-29/32	1.499	2.064
4554	13/64	13/32	5.875	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	1.499	2.064	2.437	1-7/8	7-1/2	4-3/16	2.124	3.251
5254	13/64	13/32	5.875	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	1.499	2.064	2.437	1-7/8	7-1/2	4-3/16	2.124	3.251
6054	13/64	13/32	5.875	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	1.499	2.064	2.437	1-7/8	7-1/2	4-3/16	2.124	3.251
7054	13/64	13/32	5.875	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	1.499	2.064	2.437	1-7/8	7-7/8	4-11/16	2.374	3.751
8054	7/16	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	2.124	3.251	3.250	2-3/8	9-1/8	5-11/16	2.499	4.501

MODEL	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ
2654	1.562	1/4 X 1/8	1-25/32	1.250/1.249	2-13/32	4-1/2	5-5/8	2-7/16	3-7/16	1-11/32	3/8	9/16 TOP 11/16 BOTTOM
3254	2.437	5/16 X 5/32	2-5/16	1.375/1.374	3-1/16	5-7/16	7-3/8	3-1/8	3-13/16	1-3/8	1/2	3/4 TOP 29/32 BOTTOM
3854	2.437	3/8 X 3/16	3-5/32	1.500/1.499	4	6-11/16	8	3-7/16	4	1-1/2	1/2	15/16 TOP 1 BOTTOM
4554	3.250	3/8 X 3/16	3-9/32	1.625/1.624	4-3/16	7-1/4	9-1/4	4-1/16	4-5/8	1-5/8	5/8	7/8 TOP 1-1/8 BOTTOM
5254	3.250	3/8 X 3/16	3-1/2	1.750/1.749	4-15/32	7-13/16	10-3/4	4-3/4	5-1/16	1-7/8	5/8	1 TOP 1-1/4 BOTTOM
6054	3.250	1/2 X 1/4	4-1/2	2.250/2.249	5-1/8	10-1/4	13-1/4	5-1/2	6-3/4	2-7/16	7/8	1-7/8 TOP & BOTTOM
7054	3.937	5/8 X 5/16	5	2.750/2.749	5-7/16	11-1/8	15-3/16	6-1/4	7-3/4	2-3/4	1	2 TOP & BOTTOM
8054	4.625	3/4 X 3/8	5-5/8	3.250/3.248	6-1/4	12-3/4	17-3/4	7-3/8	9	3-1/4	1	2 TOP & BOTTOM

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
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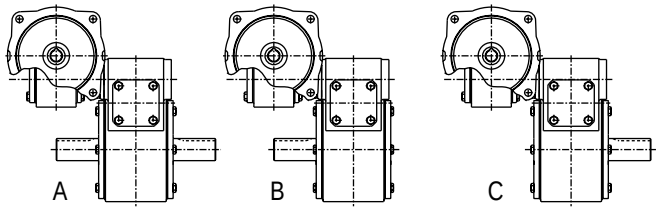

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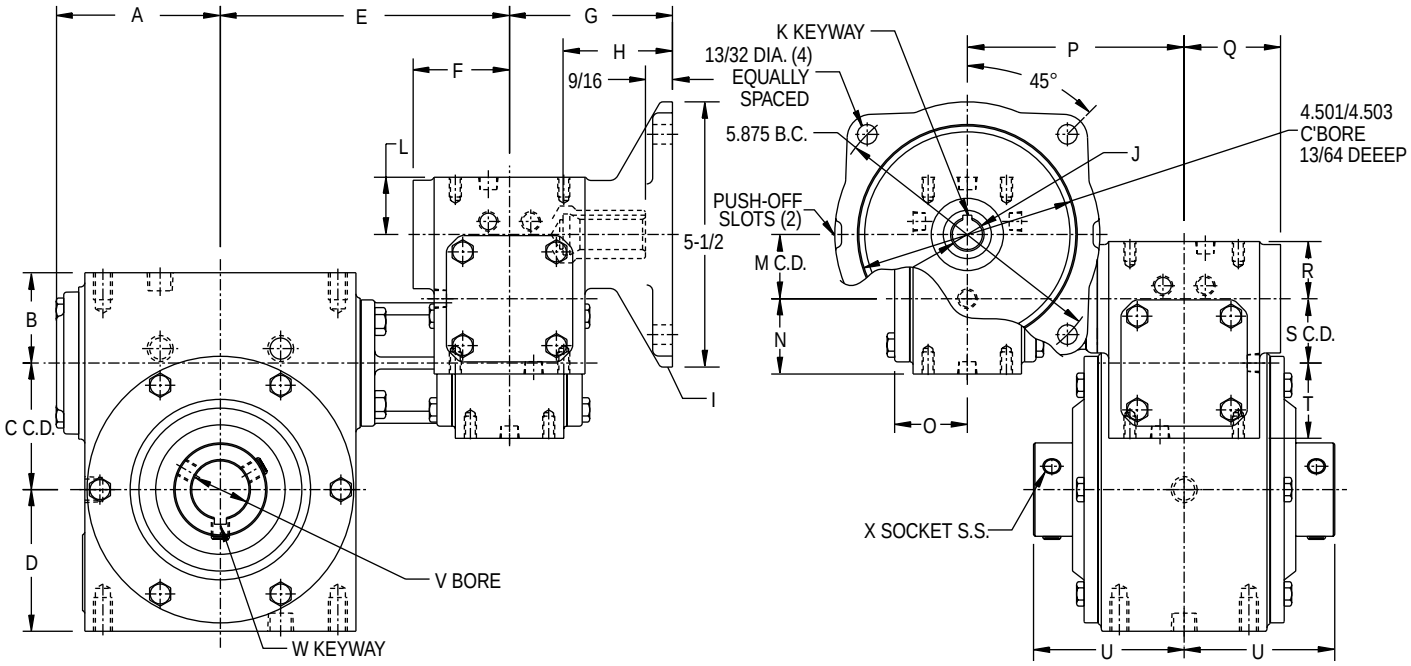
Models 2655, 3255, 3855, 4555, 5255, 6055, & 7055



MODEL	PRIMARY	INTER-MEDIATE	FINAL	A	B	C	D	E	F	G	H	I	J	K
2655	134	134	265	3-13/32	1.874	2.626	2.938	6	2	3-3/8	2-9/32	56C	.6255/.6270	3/16 X 3/32
3255	134	214	325	4-3/16	2.124	3.251	3.250	7-1/2	2	3-3/8	2-9/32	56C	.6255/.6270	3/16 X 3/32
3855	134	214	385	4-11/16	2.374	3.751	3.937	7-7/8	2	3-3/8	2-9/32	56C	.6255/.6270	3/16 X 3/32
4555	214	324	455	5-11/16	2.499	4.501	4.625	9-1/8	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29
5255	214	324	525	6-13/32	2.624	5.168	5.375	9-7/8	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29
6055	214	324	602	7-9/32	3.250	6.000	6.625	9-13/16	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29
7055	214	384	702	8-3/8	3.875	7.000	7.625	10-31/32	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29

MODEL	L	M	N	O	P	Q	R	S	T	U	V	W	X
2655	1.186	1.334	1.562	1-15/32	4-1/2	2	1.186	1.334	1.562	3-1/8	MODEL 265 PAGE B-31	MODEL 265 PAGE B-31	MODEL 265 PAGE B-31
3255	1.186	1.334	1.562	1-15/32	5-5/8	2-29/32	1.499	2.064	2.437	3-25/32	MODEL 325 PAGE B-31	MODEL 325 PAGE B-31	MODEL 325 PAGE B-31
3855	1.186	1.334	1.562	1-15/32	5-5/8	2-29/32	1.499	2.064	2.437	3-25/32	MODEL 385 PAGE B-31	MODEL 385 PAGE B-31	MODEL 385 PAGE B-31
4555	1.499	2.064	2.437	1-7/8	7-1/2	4-3/16	2.124	3.251	3.250	5	MODEL 455 PAGE B-31	MODEL 455 PAGE B-31	—
5255	1.499	2.064	2.437	1-7/8	7-1/2	4-3/16	2.124	3.251	3.250	5-9/16	MODEL 525 PAGE B-31	MODEL 525 PAGE B-31	—
6055	1.499	2.064	2.437	1-7/8	7-1/2	4-3/16	2.124	3.251	3.250	7-3/16	MODEL 602 PAGE B-25	MODEL 602 PAGE B-25	—
7055	1.499	2.064	2.437	1-7/8	7-7/8	4-11/16	2.374	3.751	3.937	8-1/16	MODEL 702 PAGE B-25	MODEL 702 PAGE B-25	—

Standard Styles Available

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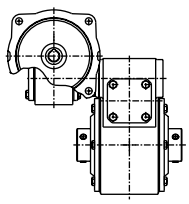

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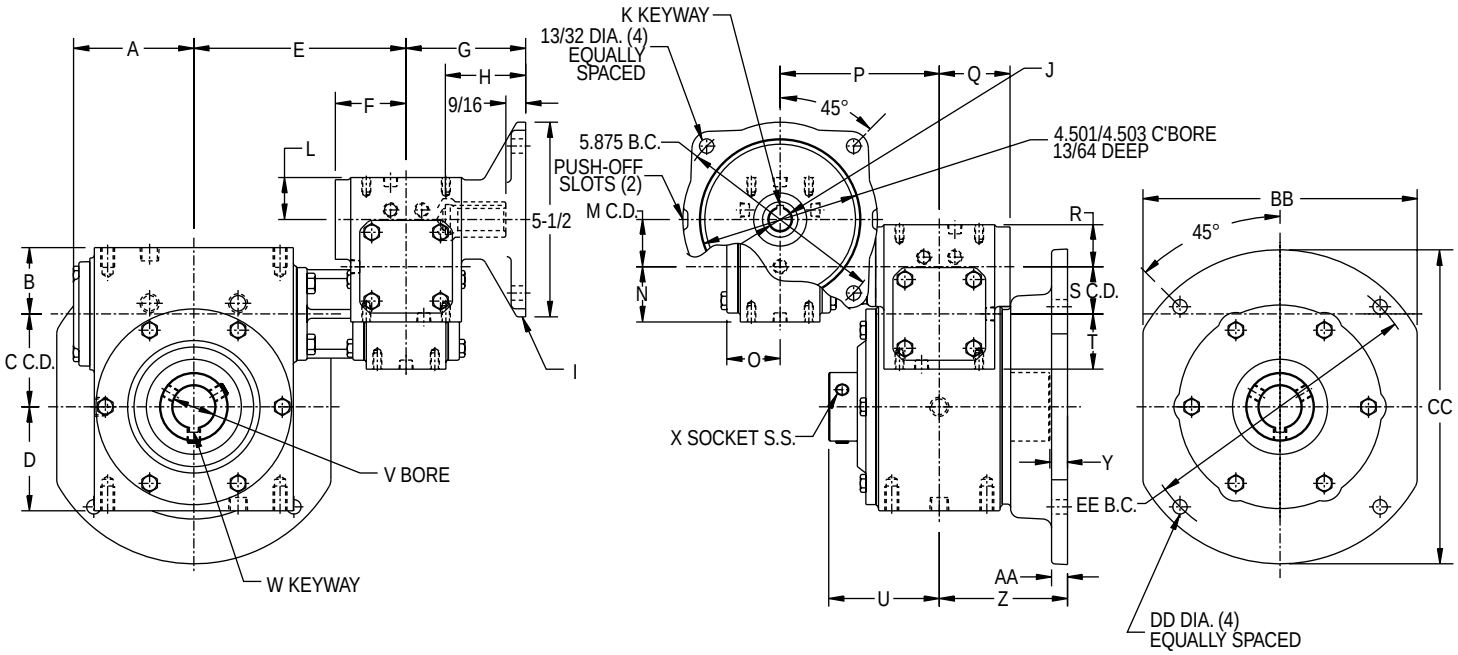
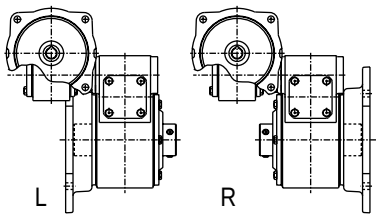
Models 2656, 3256, 3856, 4556, 5256, & 6056



MODEL	PRIMARY	INTER-MEDIATE	FINAL	A	B	C	D	E	F	G	H	I	J	K	L	M	N
2656	134	134	266	3-13/32	1.874	2.626	2.938	6	2	3-3/8	2-9/32	56C	.6255/.6270	3/16 X 3/32	1.186	1.334	1.562
3256	134	214	326	4-3/16	2.124	3.251	3.250	7-1/2	2	3-3/8	2-9/32	56C	.6255/.6270	3/16 X 3/32	1.186	1.334	1.562
3856	134	214	386	4-11/16	2.374	3.751	3.937	7-7/8	2	3-3/8	2-9/32	56C	.6255/.6270	3/16 X 3/32	1.186	1.334	1.562
4556	214	324	456	5-11/16	2.499	4.501	4.625	9-1/8	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	1.499	2.064	2.437
5256	214	324	526	6-13/32	2.624	5.168	5.375	9-7/8	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	1.499	2.064	2.437
6056	214	324	603	7-9/32	3.250	6.000	6.625	9-13/16	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	1.499	2.064	2.437

MODEL	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE
2656	1-15/32	4-1/2	2	1.186	1.334	1.562	3-1/8	MODEL 266 PAGE B-33	MODEL 266 PAGE B-33	MODEL 266 PAGE B-33	1/2	3-5/8	7/16	7-3/4	8-7/8	13/32	8
3256	1-15/32	5-5/8	2-29/32	1.499	2.064	2.437	3-25/32	MODEL 326 PAGE B-33	MODEL 326 PAGE B-33	MODEL 326 PAGE B-33	7/32	4	1/2	8	10	13/32	9
3856	1-15/32	5-5/8	2-29/32	1.499	2.064	2.437	3-25/32	MODEL 386 PAGE B-33	MODEL 386 PAGE B-33	MODEL 386 PAGE B-33	23/32	4-1/2	1/2	9	11	9/16	10
4556	1-7/8	7-1/2	4-3/16	2.124	3.251	3.250	5	MODEL 456 PAGE B-33	MODEL 456 PAGE B-33	—	3/4	5-3/4	5/8	12-1/4	14-1/4	11/16	10
5256	1-7/8	7-1/2	4-3/16	2.124	3.251	3.250	5-9/16	MODEL 526 PAGE B-33	MODEL 526 PAGE B-33	—	1-7/16	7	3/4	12-1/2	15-1/2	11/16	14
6056	1-7/8	7-1/2	4-3/16	2.124	3.251	3.250	7-3/16	MODEL 603 PAGE B-27	MODEL 603 PAGE B-27	—	13/16	8	7/8	15	18	13/16	16

Standard Styles Available



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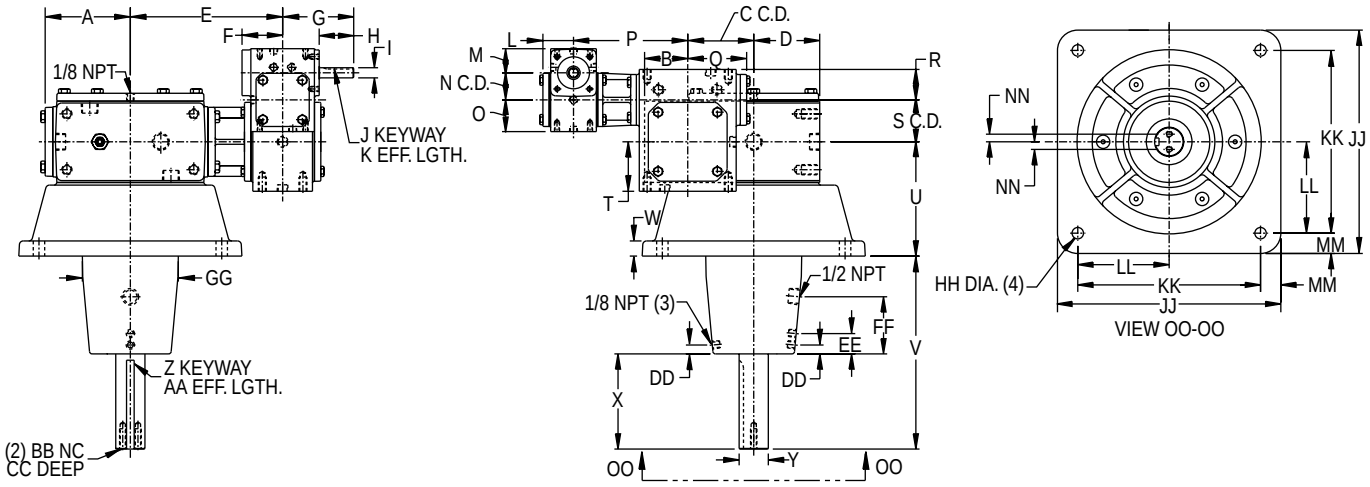

MODEL	PRIMARY	INTER-MEDIATE	FINAL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
3257	131	214	328	4-3/16	2.124	3.251	3.250	7-1/2	2	3-1/2	1-11/16	.500/.499	1/8 x 1/16	1-9/32	1-15/32	1.186	1.334	1.562
3857	131	214	388	4-11/16	2.374	3.751	3.937	7-7/8	2	3-1/2	1-11/16	.500/.499	1/8 x 1/16	1-9/32	1-15/32	1.186	1.334	1.562
4557	211	324	458	5-11/16	2.499	4.501	4.625	9-1/8	2-29/32	4-7/16	1-29/32	.625/.624	3/16 x 3/32	1-3/8	1-7/8	1.499	2.064	2.437
5257	211	324	528	6-13/32	2.624	5.168	5.375	9-7/8	2-29/32	4-7/16	1-29/32	.625/.624	3/16 x 3/32	1-3/8	1-7/8	1.499	2.064	2.437
6057	211	324	607	7-9/32	3.250	6.000	6.625	9-13/16	2-29/32	4-7/16	1-29/32	.625/.624	3/16 x 3/32	1-3/8	1-7/8	1.499	2.064	2.43
7057	211	384	707	8-3/8	3.875	7.000	7.625	10-31/32	2-29/32	4-7/16	1-29/32	.625/.624	3/16 x 3/32	1-3/8	1-7/8	1.499	2.064	2.437
8057	321	454	807	10	4.500	8.000	8.750	12-1/2	4-3/16	6-3/4	2-9/16	.875/.874	3/16 x 3/32	2	2-3/8	2.124	3.251	3.250

MODEL	P	Q	R	S	T		U	V	W	X	Y	Z	AA	BB
3257	5-5/8	2-29/32	1.499	2.064	2.437	STANDARD FLANGE	5-5/8	9-1/2	3/4	4-11/16	1.4375/1.4365	3/8 x 3/16	3-7/8	5/16
						LARGE FLANGE	5-7/8	9-1/2	31/32	4-9/16	1.625/1.624	3/8 x 3/16	3-11/16	5/16
3857	5-5/8	2-29/32	1.499	2.064	2.437	STANDARD FLANGE	5-7/8	9-1/2	15/16	4-1/2	1.625/1.624	3/8 x /316	3-11/16	5/16
						LARGE FLANGE	6-1/32	10-1/2	*1-1/16	5-1/2	1.6875/1.6865	3/8 x 3/16	4-11/16	3/8
4557	7-1/2	4-3/16	2.124	3.251	3.250		6	10-1/2	*1-1/16	5-1/2	1.6875/1.6865	3/8 x 3/16	4-11/16	3/8
5257	7-1/2	4-3/16	2.124	3.251	3.250		6-1/4	10-1/2	1-7/32	5-17/32	2.1875/2.1865	1/2 x 1/4 P&W	4-7/8	3/8
6057	7-1/2	4-3/16	2.124	3.251	3.250		8-1/4	15-1/2	1-1/4	7-5/8	2.4375/2.4365	5/8 x 5/16 P&W	6-13/16	3/8
7057	7-7/8	4-11/16	2.374	3.751	3.937		10-1/4	15-1/2	1-1/2	7-5/8	2.9375/2.9365	3/4 x 3/8 P&W	6-13/16	3/8
8057	9-1/8	5-11/16	2.499	4.501	4.625		11-1/4	16-1/8	1-3/4	8-5/16	3.4375/3.4355	7/8 x 7/16 P&W	7-5/8	5/8

* FLANGE THICKNESS IS 13/16 AT HOLE AREAS.

MODEL		CC	DD	EE	FF	GG	HH	JJ	KK	LL	MM	NN
3257	STANDARD FLANGE	1	7/16	1	2-13/16	4-3/4	9/16	11	9	4-1/2	1	3/8
	LARGE FLANGE	1	7/16	1-1/16	2-3/4	4-15/16	9/16	12-1/2	10-1/2	5-1/4	1	3/8
3857	STANDARD FLANGE	1	7/16	1-1/16	2-3/4	4-15/16	9/16	12-1/2	10-1/2	5-1/4	1	3/8
	LARGE FLANGE	1	1/2	1-1/4	3-1/4	5-17/32	11/16	14	12	6	1	1/2
4557		1	1/2	1-1/4	3-1/4	5-17/32	11/16	14	12	6	1	1/2
5257		1	7/16	1-3/16	3-3/16	6-5/8	13/16	16	14	7	1	3/4
6057		1	7/16	1-1/4	3-5/8	8-1/2	15/16	19-1/2	17	8-1/2	1-1/4	3/4
7057		1	1/2	1-5/16	4	9-1/32	1-1/16	22-1/4	19	9-1/2	1-5/8	1
8057		1-1/2	1/2	1-5/16	4-1/26	10-7/16	1-5/16	24-1/4	21	10-1/2	1-5/8	1-1/16

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
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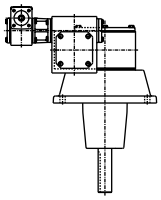

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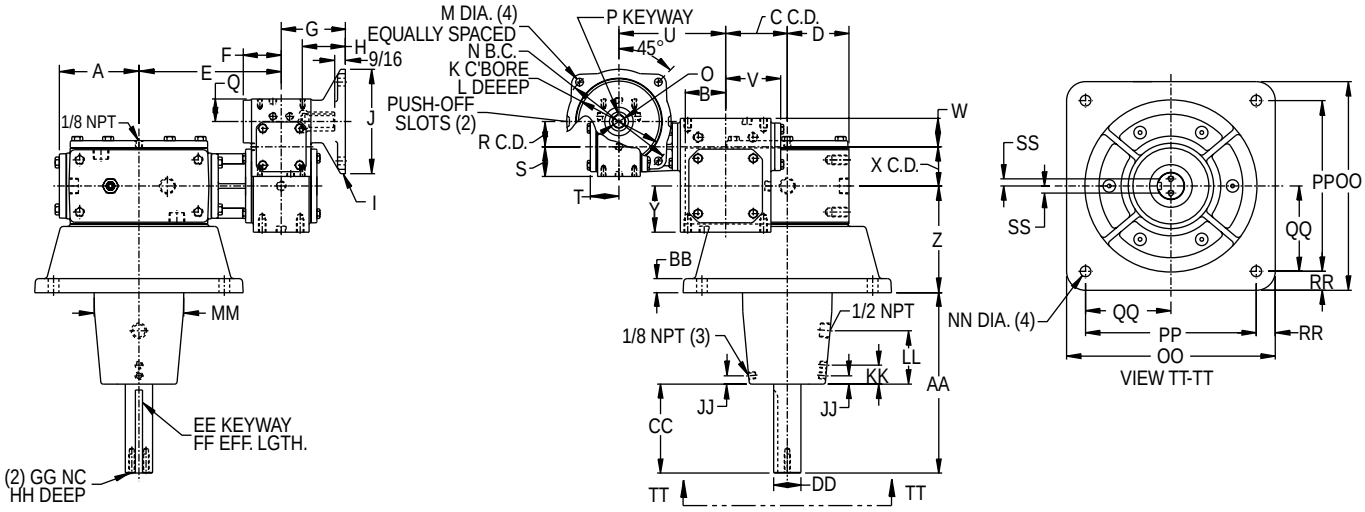
Models 3258, 3858, 4558, 5258, 6058, 7058, & 8058

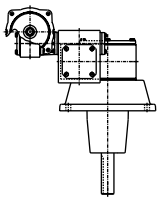


MODEL	PRIMARY	INTER-MEDIATE	FINAL	A	B	C	D	E	F	G	H	I	J	K	L
3258	134	214	328	4-3/16	2.124	3.251	3.250	7-1/2	2	3-3/8	2-9/32	56C	5-1/2	4.501/4.503	13/64
3858	134	214	388	4-11/16	2.374	3.751	3.937	7-7/8	2	3-3/8	2-9/32	56C	5-1/2	4.501/4.503	13/64
4558	214	324	458	5-11/16	2.499	4.501	4.625	9-1/8	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	5-1/2	4.501/4.503	13/64
5258	214	324	528	6-13/32	2.624	5.168	5.375	9-7/8	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	5-1/2	4.501/4.503	13/64
6058	214	324	607	7-9/32	3.250	6.000	6.625	9-13/16	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	5-1/2	4.501/4.503	13/64
7058	214	384	707	8-3/8	3.875	7.000	7.625	10-31/32	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	5-1/2	4.501/4.503	13/64
8058	324	454	807	10	4.500	8.000	8.750	12-1/2	4-3/16	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	7/16

MODEL	M	N	O	P	Q	R	S	T	U	V	W	X	Y		Z	AA
3258	13/32	5.875	.6255/.6270	3/16 x 3/32	1.186	1.334	1.562	1-15/32	5-5/8	2-29/32	1.499	2.064	2.437	STANDARD FLANGE	5-5/8	9-1/2
														LARGE FLANGE	5-7/8	9-1/2
3858	13/32	5.875	.6255/.6270	3/16 x 3/32	1.186	1.334	1.562	1-15/32	5-5/8	2-29/32	1.499	2.064	2.437	STANDARD FLANGE	5-7/8	9-1/2
														LARGE FLANGE	6-1/32	10-1/2
4558	13/32	5/875	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	1.499	2.064	2.437	1-7/8	7-1/2	4-3/16	2.124	3.251	3.250		6	10-1/2
5258	13/32	5.875	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	1.499	2.064	2.437	1-7/8	7-1/2	4-3/16	2.124	3.251	3.250		6-1/4	10-1/2
6058	13/32	5.875	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	1.499	2.064	2.437	1-7/8	7-1/2	4-3/16	2.124	3.251	3.250		8-1/4	15-1/2
7058	13/32	5.875	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	1.499	2.064	2.437	1-7/8	7-7/8	4-11/16	2.374	3.751	3.937		10-1/4	15-1/2
8058	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	2.124	3.251	3.250	2-3/8	9-1/8	5-11/16	2.499	4.501	4.625		11-1/4	16-1/8

MODEL		BB	CC	DD	EE	FF	GG	HH	JJ	KK	LL	MM	NN	OO	PP	QQ	RR	SS
3258	STANDARD FLANGE	3/4	4-11/16	1.4375/1.4365	3/8 x 3/16	3-7/8	5/16	1	7/16	1	2-13/16	4-3/4	9/16	11	9	4-1/2	1	3/8
	LARGE FLANGE	31/32	4-9/16	1.625/1.624	3/8 x 3/16	3-11/16	5/16	1	7/16	1-1/16	2-3/4	4-15/16	9/16	12-1/2	10-1/2	5-1/4	1	3/8
3858	STANDARD FLANGE	15/16	4-1/2	1.625/1.624	3/8 x 3/16	3-11/16	5/16	1	7/16	1-1/16	2-3/4	4-15/16	9/16	12-1/2	10-1/2	5-1/4	1	3/8
	LARGE FLANGE	*1-1/16	5-1/2	1.6875/1.6865	3/8 x 3/16	4-11/16	3/8	1	1/2	1-1/4	3-1/4	5-17/32	11/16	14	12	6	1	1/2
4558		*1-1/16	5-1/2	1.6875/1.6865	3/8 x 3/16	4-11/16	3/8	1	1/2	1-1/4	3-1/4	5-17/32	11/16	14	12	6	1	1/2
5258		1-7/32	5-17/32	2.1875/2.1865	1/2 x 1/4 P&W	4-7/8	3/8	1	7/16	1-3/16	3-3/16	6-5/8	13/16	16	14	7	1	3/4
6058		1-1/4	7-5/8	2.4375/2.4365	5/8 x 5/16 P&W	6-13/16	3/8	1	7/16	1-1/4	3-5/8	8-1/2	15/16	19-1/2	17	8-1/2	1-1/4	3/4
7058		1-1/2	7-5/8	2.9375/2.9365	3/4 x 3/8 P&W	6-13/16	3/8	1	1/2	1-5/16	4	9-1/32	1-1/16	22-1/4	19	9-1/2	1-5/8	1
8058		1-3/4	8-5/16	3.4375/3.4355	7/8 x 7/16 P&W	7-5/8	5/8	1-1/2	1/2	1-5/16	4-1/16	10-7/16	1-5/16	24-1/4	21	10-1/2	1-5/8	1-1/16

Standard Styles Available



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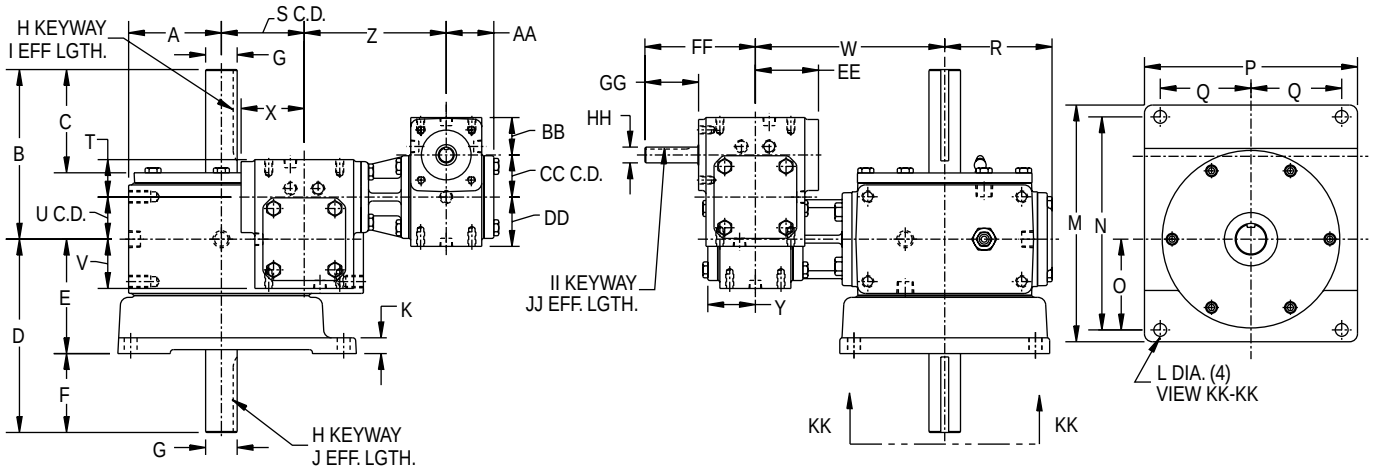
Models 2659, 3259, 3859, 4559, 5259, 6059, 7059, & 8059



MODEL	PRIMARY	INTER-MEDIATE	FINAL	A	B	C	D	E	F	G	H	I
2659	131	134	260V	2.938	5-3/8	3-9/32	6-1/8	3-5/8	2-1/2	1.000/.999	1/4 X 1/8	2-7/16
3259	131	214	320V	3.250	5-7/8	3-1/2	6-1/2	3-3/4	2-3/4	1.250/1.249	1/4 X 1/8	2-25/32
3859	131	214	380V	3.937	7	4-5/16	7-1/4	4	3-1/4	1.500/1.499	3/8 X 3/16	3-15/32
4559	211	324	450V	4.625	8-1/2	5-7/16	8-3/4	5	3-3/4	1.750/1.749	3/8 X 3/16	4-19/32
5259	211	324	520V	5.375	9	5-21/32	9-3/4	5-1/2	4-1/4	2.000/1.999	1/2 X 1/4	5-1/8
6059	211	324	609V	6.625	9-3/4	4-5/8	10-1/2	6	4-1/2	2.250/2.249	1/2 X 1/4	4-1/2
7059	211	384	709V	7.625	11-3/4	6-1/16	13-1/2	8	5-1/2	2.750/2.749	5/8 X 5/16	5-5/8
8059	321	454	809V	8.750	15	8-1/2	16-1/2	10	6-1/2	3.250/3.248	3/4 X 3/8	7-7/8

MODEL	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
2659	1-7/8	1/2	13/32	7-1/2	6-3/4	2-7/8	6-3/4	2-7/8	3-13/32	2.626	1.186	1.334	1.562	6
3259	2-1/16	19/32	9/16	8-3/4	7-3/4	3-1/4	7-1/4	3-1/8	4-3/16	3.251	1.499	2.064	2.437	7-1/2
3859	2-19/32	5/8	9/16	10	9	3-3/4	8	3-1/2	4-11/16	3.751	1.499	2.064	2.437	7-7/8
4559	3-1/32	3/4	11/16	12-19/32	11	5	11-19/32	5	5-11/16	4.501	2.124	3.251	3.250	9-1/8
5259	3-3/4	3/4	11/16	16-27/32	15-1/4	6-3/4	12-19/32	5-1/2	6-13/32	5.168	2.124	3.251	3.250	9-7/8
6059	4-1/2	3/4	13/16	20-1/2	18-1/2	7-1/2	14	6	7-9/32	6.000	2.124	3.251	3.250	9-13/16
7059	5-1/2	1	1-1/16	25	22-1/2	10	17-1/2	7-1/2	8-3/8	7.000	2.374	3.751	3.937	10-31/32
8059	6-1/8	1-1/4	1-5/16	30	27	11-1/2	22-1/2	9-3/4	10	8.000	2.499	4.501	4.625	12-1/2

MODEL	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ
2659	2	1-15/32	4-1/2	1-1/2	1.186	1.334	1.562	2	3-1/2	1-11/16	.500/.499	1/8 X 1/16	1-9/32
3259	2-29/32	1-7/8	5-5/8	1-1/2	1.186	1.334	1.562	2	3-1/2	1-11/16	.500/.499	1/8 X 1/16	1-9/32
3859	2-29/32	1-7/8	5-5/8	1-1/2	1.186	1.334	1.562	2	3-1/2	1-11/16	.500/.499	1/8 X 1/16	1-9/32
4559	4-3/16	2-3/8	7-1/2	1-7/8	1.499	2.064	2.437	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8
5259	4-3/16	2-3/8	7-1/2	1-7/8	1.499	2.064	2.437	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8
6059	4-3/16	2-3/8	7-1/2	1-7/8	1.499	2.064	2.437	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8
7059	4-11/16	2-11/16	7-7/8	1-7/8	1.499	2.064	2.437	2-29/32	4-7/16	1-29/32	.625/.624	3/16 X 3/32	1-3/8
8059	5-11/16	3-1/16	9-1/8	2-3/8	2.124	3.251	3.250	4-3/16	6-3/4	2-9/16	.875/.874	3/16 X 3/32	2

Standard Styles Available

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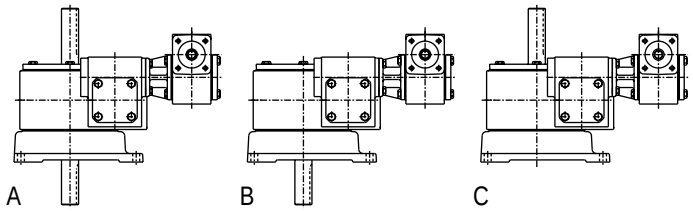

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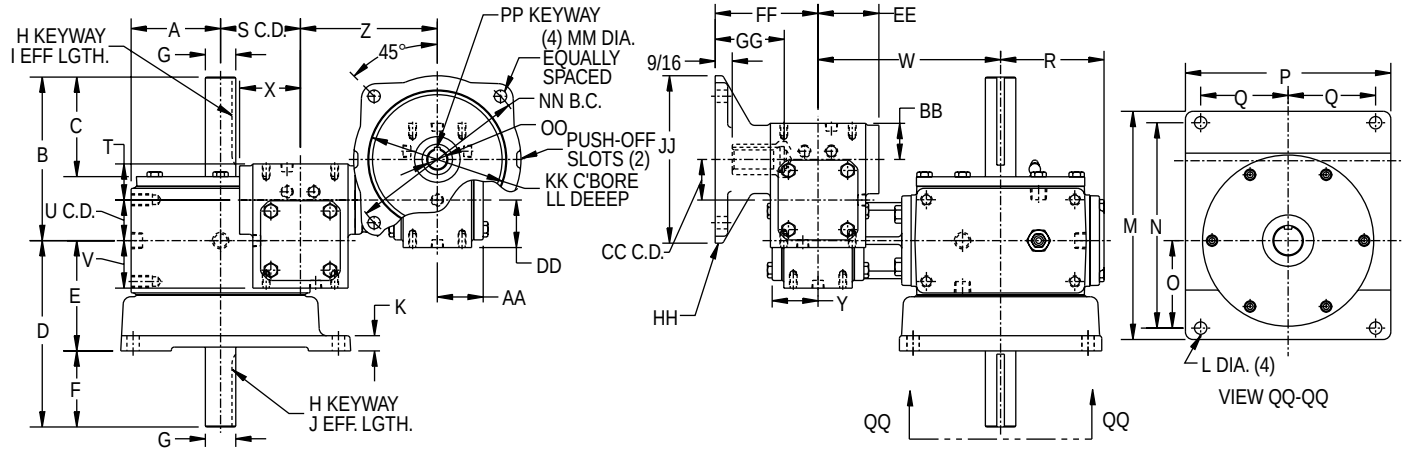
Models 2660, 3260, 3860, 4560, 5260, 6060, 7060, & 8060



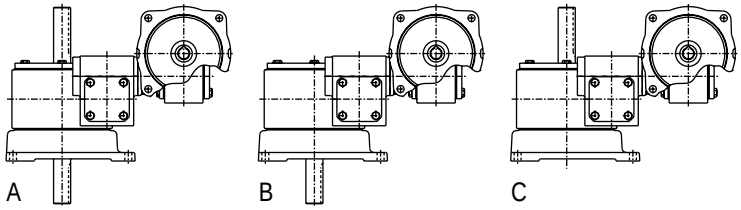
MODEL	PRIMARY	INTER-MEDIATE	FINAL	A	B	C	D	E	F	G	H	I	J	K	L
2660	134	134	260V	2.938	5-3/8	3-9/32	6-1/8	3-5/8	2-1/2	1.000/.999	1/4 X 1/8	2-7/16	1-7/8	1/2	13/32
3260	134	214	320V	3.250	5-7/8	3-1/2	6-1/2	3-3/4	2-3/4	1.250/1.249	1/4 X 1/8	2-25/32	2-1/16	19/32	9/16
3860	134	214	380V	3.937	7	4-5/16	7-1/4	4	3-1/4	1.500/1.499	3/8 X 3/16	3-15/32	2-19/32	5/8	9/16
4560	214	324	450V	4.625	8-1/2	5-7/16	8-3/4	5	3-3/4	1.750/1.749	3/8 X 3/16	4-19/32	3-1/32	3/4	11/16
5260	214	324	520V	5.375	9	5-21/32	9-3/4	5-1/2	4-1/4	2.000/1.999	1/2 X 1/4	5-1/8	3-3/4	3/4	11/16
6060	214	324	609V	6.625	9-3/4	4-5/8	10-1/2	6	4-1/2	2.250/2.249	1/2 X 1/4	4-1/2	4-1/2	3/4	13/16
7060	214	384	709V	7.625	11-3/4	6-1/16	13-1/2	8	5-1/2	2.750/2.749	5/8 X 5/16	5-5/8	5-1/2	1	1-1/16
8060	324	454	809V	8.750	15	8-1/2	16-1/2	10	6-1/2	3.250/3.248	3/4 X 3/8	7-7/8	6-1/8	1-1/4	1-5/16

MODEL	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC
2660	7-1/2	6-3/4	2-7/8	6-3/4	2-7/8	3-13/32	2.626	1.186	1.334	1.562	6	2	1-15/32	4-1/2	1-15/32	1.186	1.334
3260	8-3/4	7-3/4	3-1/4	7-1/4	3-1/8	4-3/16	3.251	1.499	2.064	2.437	7-1/2	2-29/32	1-7/8	5-5/8	1-15/32	1.186	1.334
3860	10	9	3-3/4	8	3-1/2	4-11/16	3.751	1.499	2.064	2.437	7-7/8	2-29/32	1-7/8	5-5/8	1-15/32	1.186	1.334
4560	12-19/32	11	5	11-19/32	5	5-11/16	4.501	2.124	3.251	3.250	9-1/8	4-3/16	2-3/8	7-1/2	1-7/8	1.499	2.064
5260	16-27/32	15-1/4	6-3/4	12-19/32	5-1/2	6-13/32	5.168	2.124	3.251	3.250	9-7/8	4-3/16	2-3/8	7-1/2	1-7/8	1.499	2.064
6060	20-1/2	18-1/2	7-1/2	14	6	7-9/32	6.000	2.124	3.251	3.250	9-13/16	4-3/16	2-3/8	7-1/2	1-7/8	1.499	2.064
7060	25	22-1/2	10	17-1/2	7-1/2	8-3/8	7.000	2.374	3.751	3.937	10-31/32	4-11/16	2-11/16	7-7/8	1-7/8	1.499	2.064
8060	30	27	11-1/2	22-1/2	9-3/4	10	8.000	2.499	4.501	4.625	12-1/2	5-11/16	3-1/16	9-1/8	2-3/8	2.124	3.251

MODEL	DD	EE	FF	GG	HH	JJ	KK	LL	MM	NN	OO	PP
2660	1.562	2	3-3/8	2-9/32	56C	5-1/2	4.501/4.503	13/64	13/32	5.875	.6255/.6270	3/16 X 3/32
3260	1.562	2	3-3/8	2-9/32	56C	5-1/2	4.501/4.503	13/64	13/32	5.875	.6255/.6270	3/16 X 3/32
3860	1.562	2	3-3/8	2-9/32	56C	5-1/2	4.501/4.503	13/64	13/32	5.875	.6255/.6270	3/16 X 3/32
4560	2.437	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	5-1/2	4.501/4.503	13/64	13/32	5.875	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29
5260	2.437	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	5-1/2	4.501/4.503	13/64	13/32	5.875	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29
6060	2.437	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	5-1/2	4.501/4.503	13/64	13/32	5.875	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29
7060	2.437	2-29/32	4-1/8	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29	5-1/2	4.501/4.503	13/64	13/32	5.875	MODEL 214 PAGE B-29	MODEL 214 PAGE B-29
8060	3.250	4-3/16	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	7/16	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29	MODEL 324 PAGE B-29

Standard Styles Available

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
CERTIFIED PRINTS ARE AVAILABLE UPON REQUEST.



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

CALL: (605) 225-0360

HUB CITY

FAX: (605) 225-0567

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ACCESSORIES & FACTORY OPTIONS

The following factory options are also available for gear drives in this catalog. Contact the factory for details on price, availability, and specifications.

Cleanline™

See Section O

Features

FDA approved white acrylic paint
Corrosion resistant shaft treatment or stainless steel shafts
Stainless steel hardware and nameplate

Options

Motorized versions
BISSC Standards

Metric Versions

Features

Metric Motor flanges
Metric shaft dimensions
Metric mounting dimensions

Options

Motorized versions
Modified and Custom Designs

Modified and Custom Designs

If you have looked through this catalog and do not see exactly what you need, Hub City has the capability and engineering expertise to design and produce a special drive. Capabilities range from flange and shaft modifications, to custom housing dimensions. Consult the factory or your Hub City representative with your specifications.

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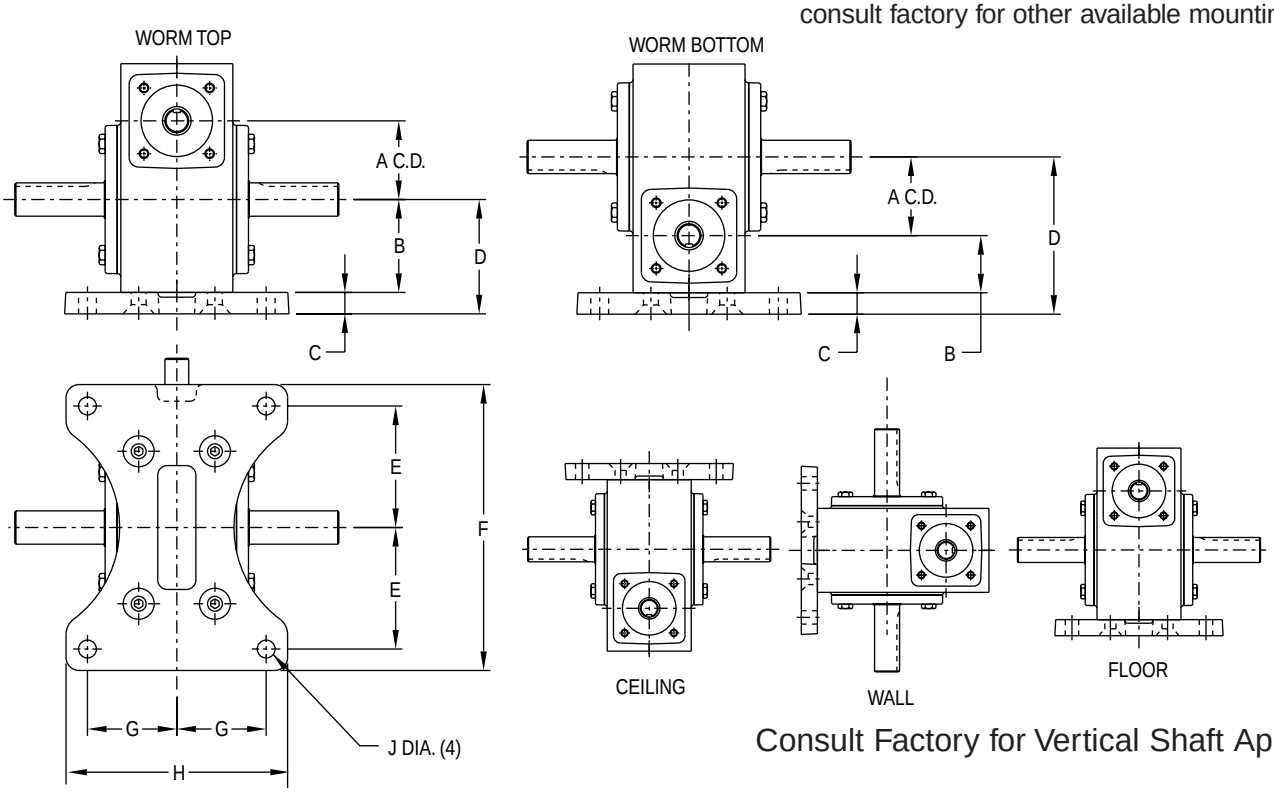
Universal Base Kits

C-face units mounted with worm bottom are not recommended and will not work with these base kits. If it is necessary to mount the unit in this position, use the adjustable base kit shown on page B-93 or consult factory for other available mounting feet.



Consult Factory for Vertical Shaft Applications

Series	Kit Number	Kit Shipping Wt.		A	B	C	D	E	F	G	H	J
130	0229-01761	1.9 lbs.	WORM TOP	1.334	1.562	.687	2.249	2-3/16	5-3/8	1-21/32	4-3/16	11/32
			WORM BOTTOM		1.186		3.207					
180	0229-01592	1.8 lbs.	WORM TOP	1.751	1.875	.875	2.750	2-7/8	6-7/8	2-1/4	5-5/8	13/32
			WORM BOTTOM		1.374		4.000					
210	0229-01750	4.5 lbs.	WORM TOP	2.064	2.437	.562	2.999	3-3/16	7-1/2	2-11/32	5-13/16	15/32
			WORM BOTTOM		1.499		4.125					
260	0229-01785	7.7 lbs.	WORM TOP	2.626	2.938	.750	3.688	4	9-1/2	2-5/8	6-3/4	17/32
			WORM BOTTOM		1.874		5.25					
320	0229-01925	9.0 lbs.	WORM TOP	3.251	3.250	1.125	4.375	4-3/4	10-3/4	3-1/16	7-3/8	17/32
			WORM BOTTOM		2.124		6.500					
380	0229-02409	10.0 lbs.	WORM TOP	3.751	3.937	.875	4.812	5-3/16	11-5/8	3-1/2	8-1/4	19/32
			WORM BOTTOM		2.374		7.000					
450	0229-02480	16.3 lbs.	WORM TOP	4.501	4.625	1.000	5.625	6-1/16	13-3/8	3-13/16	8-7/8	21/32
			WORM BOTTOM		2.499		8.000					
520	0229-02484	17.8 lbs.	WORM TOP	5.168	5.375	1.062	6.437	7-1/16	16	4-3/16	10-1/4	25/32
			WORM BOTTOM		2.624		8.854					
60 *	0229-00035	30 lbs.	WORM TOP	6.000	6.625	1.500	8.125	5-1/4	13-1/2	4-3/4	11-3/4	15/16
			WORM BOTTOM		3.250		10.75					
70 *	0229-00041	50 lbs.	WORM TOP	7.000	7.625	1.750	9.375	6	15-1/2	6	14-1/4	1-1/16
			WORM BOTTOM		3.875		12.625					
80 *	0229-00042	55 lbs.	WORM TOP	8.000	8.750	1.750	10.500	7-1/4	18	6-5/8	15-3/4	1-1/16
			WORM BOTTOM		4.500		14.250					

* THE BASE IS (2) PIECES IN THESE MODELS.

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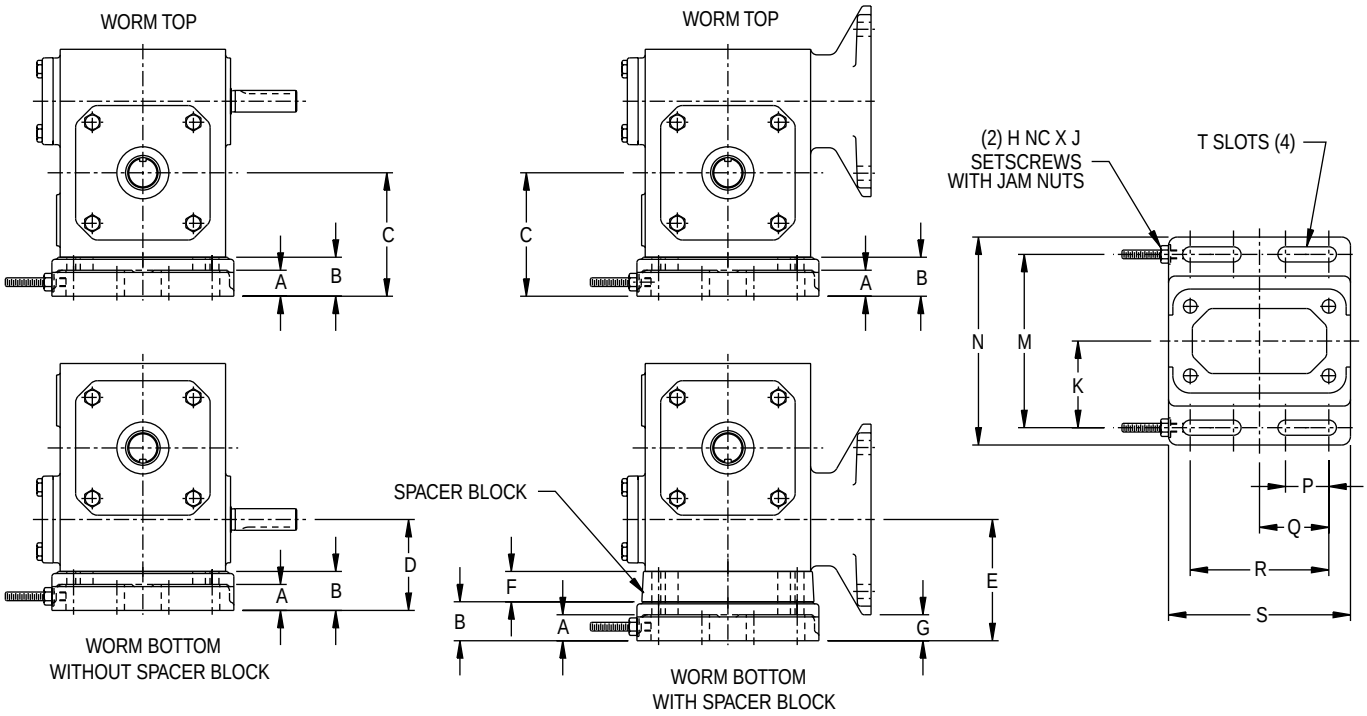
Adjustable Base Kits



Series	Adjustable Base Kit Number	Adjustable Base Kit Shipping Wt.	Spacer Block Kit Number	Spacer Block Kit Shipping Wt.	A	B	C	D	E
130	0229-00015	3.0 lbs.	0229-00023	3.0 lbs.	3/4	1-1/8	2-11/16	2-5/16	3-1/2
180	0229-00016	4.0 lbs.	0229-00024	3.0 lbs.	3/4	1-1/8	3	2-1/2	3-1/2
210	0229-00017	5.0 lbs.	0229-00025	3.0 lbs.	3/4	1-1/8	3-9/16	2-5/8	3-1/2
260	0229-00018	8.0 lbs.	N/A	N/A	7/8	1-5/8	4-9/16	3-1/2	3-1/2
320	0229-00019	10.0 lbs.	N/A	N/A	7/8	1-3/8	4-5/8	3-1/2	3-1/2
380	0229-00020	11.0 lbs.	N/A	N/A	7/8	1-3/8	5-5/16	3-3/4	3-3/4
450	0229-00021	15.0 lbs.	N/A	N/A	7/8	1-3/8	6	3-7/8	3-7/8
520	0229-00022	23.0 lbs.	N/A	N/A	1	1-1/2	6-7/8	4-1/8	4-1/8

Series	F	G	H	J	K	M	N	P	Q	R	S	T
130	1-3/16	1/4	1/4	1-1/4	2	4	4-3/4	3/4	1-3/16	2-3/8	3-3/8	5/16
180	1	1/4	1/4	1-1/2	2-1/8	4-1/4	5-1/4	1	1-9/16	3-1/8	4-1/4	5/16
210	7/8	1/4	1/4	1-3/4	2-1/2	5	6	1-1/4	2	4	5-1/4	7/16
260	N/A	1/4	3/8	2	2-3/4	5-1/2	6-3/4	1-1/4	2-7/16	4-7/8	6-1/2	9/16
320	N/A	1/4	3/8	2	3	6	7-1/8	1-3/8	3-1/8	6-1/4	7-3/4	9/16
380	N/A	1/2	3/8	2	3-1/8	6-1/4	7-1/2	1-1/2	3-7/16	6-7/8	8-3/8	9/16
450	N/A	5/8	3/8	2-1/2	3-5/8	7-1/4	8-3/4	1-5/8	3-7/8	7-3/4	9-5/8	11/16
520	N/A	7/8	3/8	2-1/2	4-1/4	8-1/2	10	1-7/8	4-3/4	9-1/2	11-3/8	11/16

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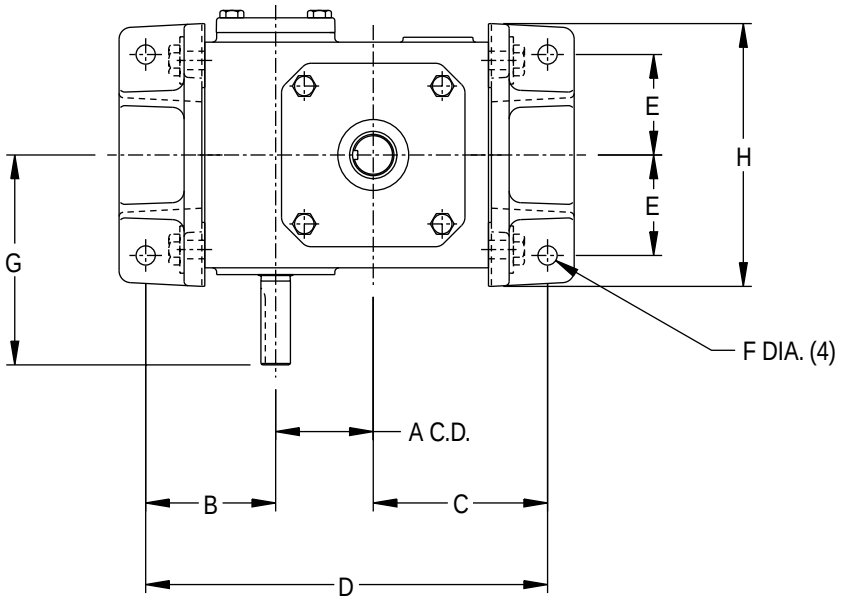
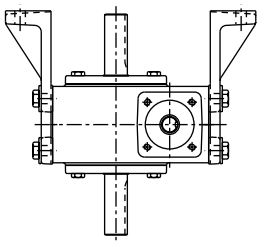
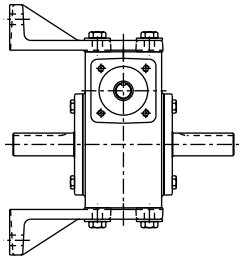
Side Mounting Kits

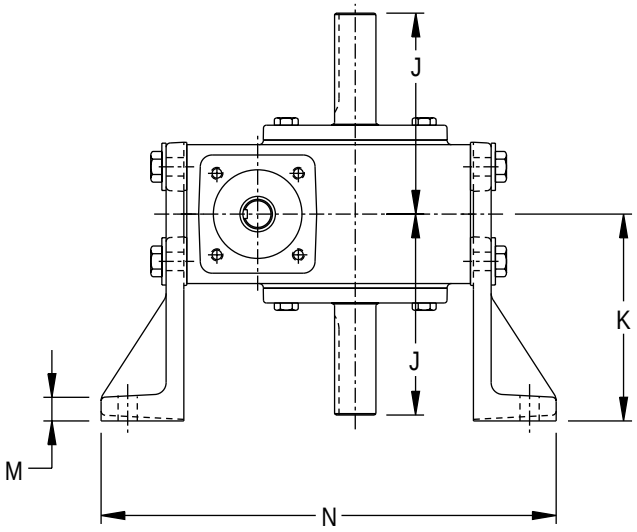


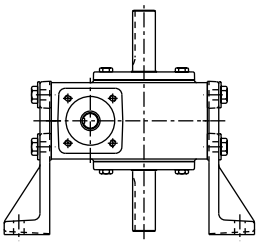


CEILING



WALL





FLOOR

Consult Factory for Vertical Shaft Applications

Series	Side Mountg Kit No.	Side Mountg Kit Shippg WT.	A	B	C	D	E	F	G	H	J	K	M	N
130	0229-01754	3.4 lbs.	1.334	2-1/16	2-7/16	5-13/16	1-5/8	9/32	3-1/2	4	3-1/4	3-5/16	3/8	6-19/32
180	0229-01588	5.2 lbs.	1.751	2-3/8	2-7/8	7	2-1/8	13/32	4	5-3/8	3-1/2	3-9/16	3/8	8-1/8
210	0229-01746	8.6 lbs.	2.064	2-3/4	3-11/16	8-1/2	2-1/8	13/32	4-7/16	5-9/16	4-1/4	4-3/8	1/2	9-5/8
260	0229-01777	13.0 lbs.	2.626	3-7/32	4-9/32	10-1/8	3	17/32	5-5/8	7-1/2	4-1/2	4-9/16	5/8	11-5/8
320	0229-01917	20.3 lbs.	3.251	3-7/16	4-9/16	11-1/4	4	9/16	6-3/4	9-1/4	5-7/16	5-1/2	11/16	12-1/2
380	0229-02414	26.3 lbs.	3.751	3-7/8	5-7/16	13-1/16	4-1/4	9/16	7-1/8	9-3/4	6-11/16	6-13/16	11/16	15-1/16
450	0229-02497	34.1 lbs.	4.501	4-1/4	6-3/8	15-1/8	5-1/8	21/32	8-7/16	11-1/2	7-1/4	7-3/8	11/16	16-3/8
520	0229-02498	43.5 lbs.	5.168	4-1/2	7-1/4	16-15/16	5-3/8	21/32	9-1/4	12	7-13/16	7-15/16	11/16	18-3/16

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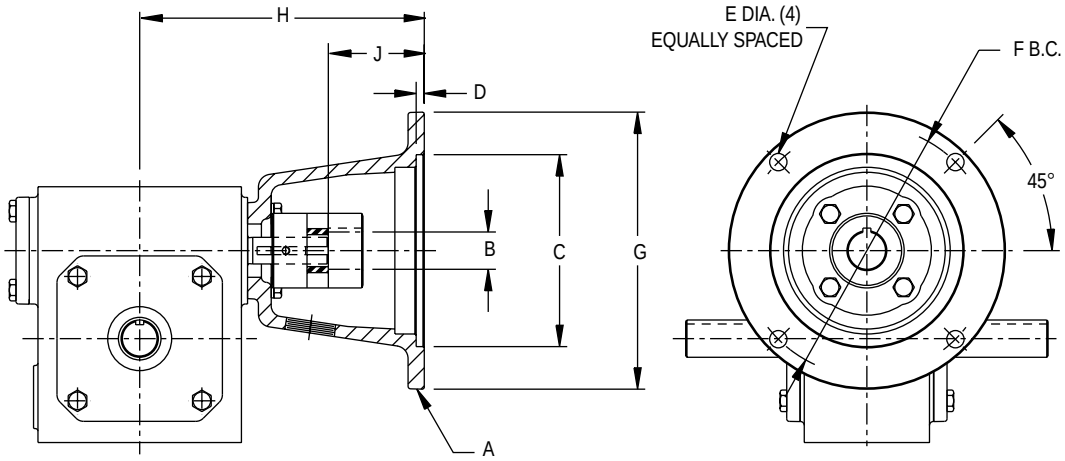
NEMA "C" Flange Adaptor Kits



Series	A - NEMA Flange	Flange Kit No.	Flange Kit Ship Wt.	B	C	D	E	F	G	H	J
130	56C	0229-02876	6.4 lbs.	.625/.626	4.501/4.503	3/16	13/32	5.875	6-1/2	5-13/16	2-5/16
180	56C	0229-02876	6.4 lbs.	.625/.626	4.501/4.503	3/16	13/32	5.875	6-1/2	6-3/16	2-3/16
210	56C	0229-02874	6.4 lbs.	.625/.626	4.501/4.503	3/16	13/32	5.875	6-1/2	6-11/16	2-1/4
	143TC, 145TC, 182C, 184C	0229-02875	6.2 lbs.	.875/.876							
260	56C	0229-02877	8.7 lbs.	.625/.626	4.501/4.503	1/2	13/32	5.875	6-1/2	7-13/16	2-3/16
	143TC, 145TC, 182C, 184C	0229-02878	8.5 lbs.	.875/.876							
	182TC, 184TC, 213C, 215C	0229-02879	16.3 lbs.	1.125/1.126	8.501/8.504	1/2	17/32	7.250	9-3/32	8-27/32	3-3/16
320	56C	0229-02883	14.3 lbs.	.625/.626	4.501/4.503	13/64	13/32	5.875	6-1/2	8-15/16	2-3/16
	143TC, 145TC, 182C, 184C	0229-02884	14.2 lbs.	.875/.876							
	182TC, 184TC, 213C, 215C	0229-02885	16.4 lbs.	1.125/1.126	8.501/8.504	1/2	17/32	7.250	9-3/32	9-15/16	3-5/32
380	56C	0229-02888	14.1 lbs.	.625/.626	4.501/4.503	13/64	13/32	5.875	6-1/2	9-11/32	2-3/16
	143TC, 145TC, 182C, 184C	0229-02889	13.9 lbs.	.875/.876							
	182TC, 184TC, 213C, 215C	0229-02890	17.6 lbs.	1.125/1.127	8.501/8.504	1/2	17/32	7.250	9-3/32	10-5/16	3-5/32
450	56C	0229-02893	13.9 lbs.	.625/.626	4.501/4.503	13/64	13/32	5.875	6-1/2	10-7/8	2-7/16
	143TC, 145TC, 182C, 184C	0229-02894		.875/.876							
	182TC, 184TC, 213C, 215C	0229-02895	22.8 lbs.	1.125/1.126	8.501/8.504	3/8	17/32	7.250	9-1/16	11-11/16	3-1/4
520	56C	0229-02897	15.4 lbs.	.625/.626	4.501/4.503	13/64	13/32	5.875	6-1/2	11-5/8	2-3/8
	143TC, 145TC, 182C, 184C	0229-02898		.875/.876							
	182TC, 184TC, 213C, 215C	0229-02899	24.9 lbs.	1.125/1.126	8.501/8.504	3/8	17/32	7.250	9-1/16	12-7/16	3-3/16
60	182TC, 184TC, 213C, 215C	0229-00037	57 lbs.	1.125/1.126	8.501/8.504	3/16	17/32	7.250	9-1/8	15-3/4	4
	213TC, 215TC, 254C, 256C	0229-00038		1.375/1.376							
	254TC, 256TC	0229-00039		1.625/1.626							
70	182TC, 184TC, 213C, 215C	0229-00100	57 lbs.	1.125/1.126	8.501/8.504	3/16	17/32	7.250	9-1/8	16-21/32	3-21/32
	213TC, 215TC, 254C, 256C	0229-00101		1.375/1.376							
	254TC, 256TC	0229-00102		1.625/1.626							
80	182TC, 184TC, 213C, 215C	0229-00103	57 lbs.	1.125/1.126	8.501/8.504	3/16	17/32	7.250	9-1/8	19-3/16	4-1/4
	213TC, 215TC, 254C, 256C	0229-00104		1.375/1.376							
	254TC, 256TC	0229-00105		1.625/1.626							

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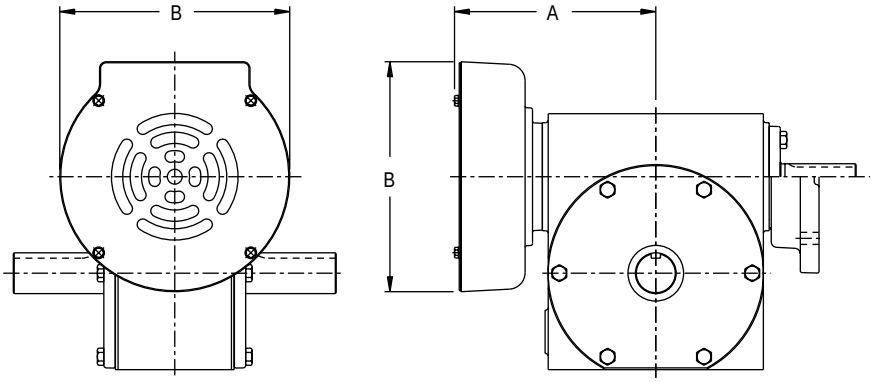
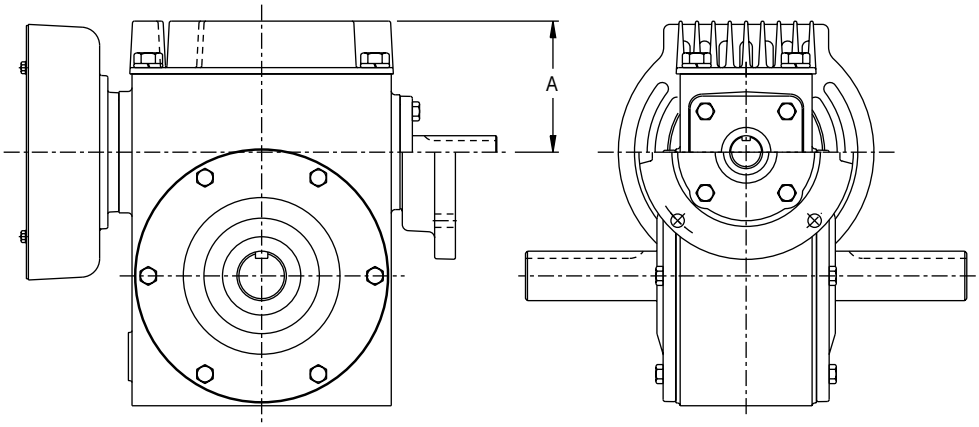
Fan Kits



Series	Input	Fan Kit Number	Fan Kit Shipping Wt.	A	B
260	Shaft & Quill	0229-02880	5 lbs.	5-5/8	6-5/32
320	Shaft	0229-02881	8 lbs.	6-25/32	7-3/4
	Quill	0229-02882			
380	Shaft	0229-02886	8 lbs.	7-5/16	7-3/4
	Quill	0229-02887			
450	Shaft	0229-02891	11 lbs.	7-3/4	9-5/8
	Quill	0229-02892			
520	Shaft	0229-02896	11 lbs.	8-1/2	9-5/8
	Quill	0229-02892			

Thermal Block Kits



Series	Thermal Block Kit Number	Thermal Block Kit Shipping WT.	A
380	0229-00032	3 lbs.	4
450	0229-00033	4 lbs.	4-3/16
520	0229-00034	5 lbs.	4-5/16

When Fan kits and Thermal Blocks are utilized synthetic lubricant is recommended, See Section R

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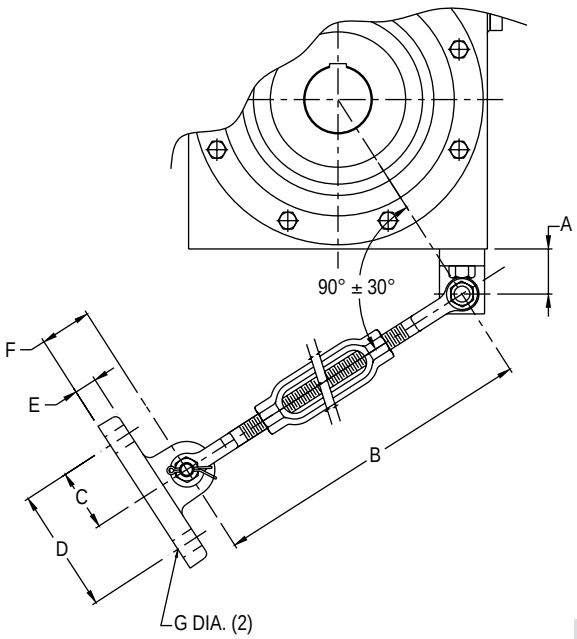
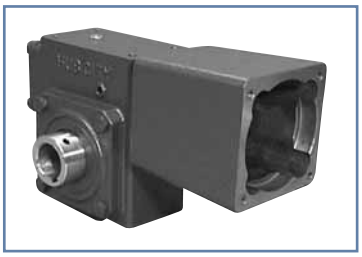
Torque Arm Kits

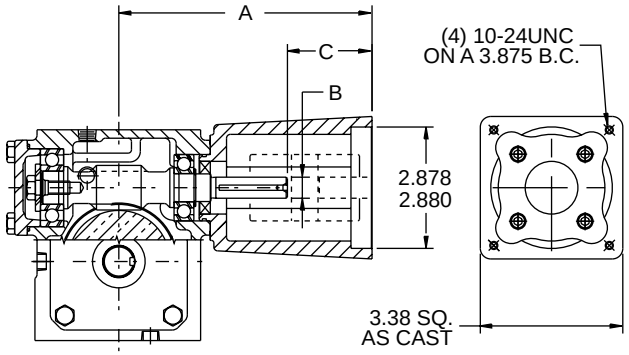


Model *	Kit Number	A	B	C	D	E	F	G
182, 185	0229-01741	1-1/8	11-1/8 MIN. 17 MAX.	1-3/8	2-3/4	1/2	1-1/8	7/16
212, 215	0229-01742	1-1/8	11-1/8 MIN. 17 MAX.	1-3/8	2-3/4	1/2	1-1/8	7/16
262, 265	0229-01743	1-1/8	11-1/8 MIN. 17 MAX.	1-3/8	2-3/4	1/2	1-1/8	7/16
322, 325	0229-01913	1-1/8	11-1/8 MIN. 17 MAX.	1-3/8	2-3/4	1/2	1-1/8	7/16
382, 385	0229-02399	1-1/8	11-1/8 MIN. 17 MAX.	1-3/8	2-3/4	1/2	1-1/8	7/16
452, 455	0229-02604	1-1/4	12-1/2 MIN. 18-3/8 MAX.	1-5/8	3-1/4	1/2	1-1/4	21/32
522, 525	0229-02679	1-1/2	12-1/2 MIN. 18-3/8 MAX.	1-5/8	3-1/4	1/2	1-1/4	21/32
602, 602F	0229-02790	2	14-7/8 MIN. 20-7/8 MAX.	2-7/16	4-7/8	3/4	2	15/16
702, 702F	0229-02904	2	19-1/2 MIN. 25-1/2 MAX.	2-3/4	5-1/2	3/4	2	1-1/16

* SAME KITS ARE USED WHEN THE MODEL IS THE FINAL UNIT ON A DOUBLE REDUCTION OR TRIPLE REDUCTION WORM GEAR REDUCER.

Servo Motor Flange Kit





Part Number	Model	A	B	C
0229-02911	181	6	.500/.499	2
0229-02912	211	6-3/8	.625/.624	1-15/16
Consult Factory	261	6-3/4	.625/.624*	1-15/16*

NEMA 34 FLANGE KITS AVAILABLE FOR 181, 211 AND 261 UNITS. OTHER MOTOR SIZES AND MODELS AVAILABLE CONSULT FACTORY FOR AVAILABILITY.

Hydraulic Input Flange

Available with SAE A, B, C, Hydraulic Motor Mounting Flanges.

CONSULT FACTORY FOR COMPLETE SPECIFICATIONS

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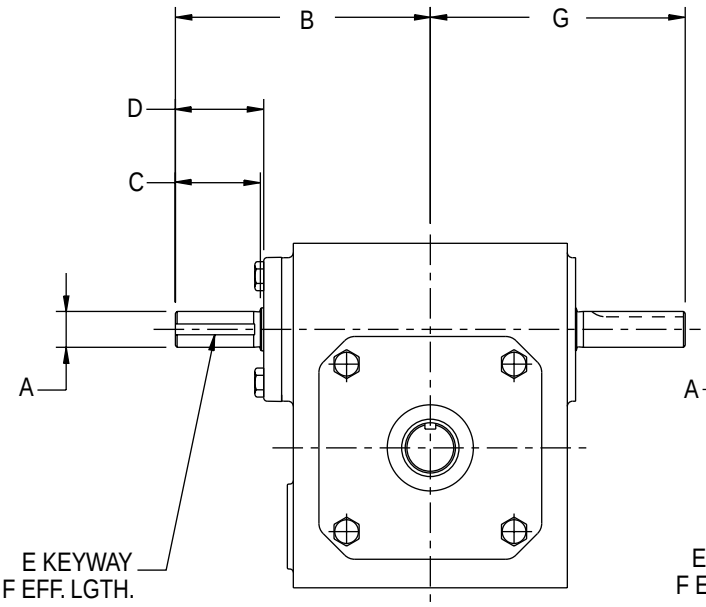
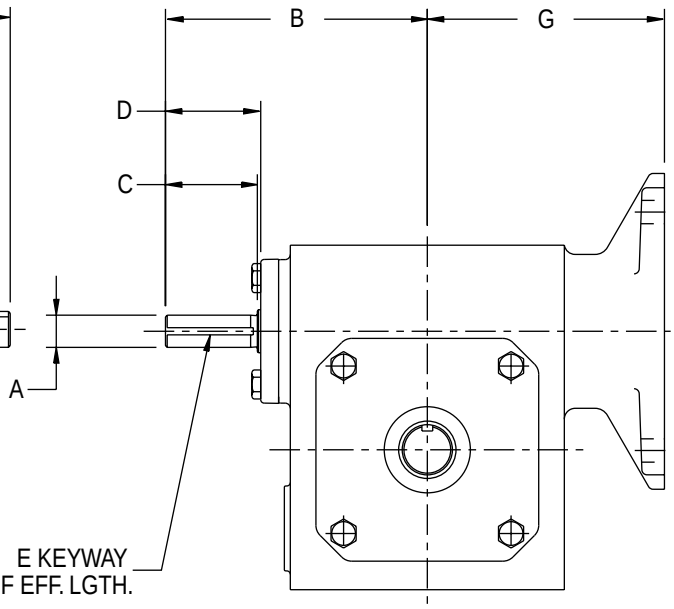
Extended Worm Shafts

DOUBLE EXTENDED WORM SHAFT



C-FLANGE EXTENDED WORM SHAFT



Series	A	B	C	D	E	F	G
130 Shaft Input	.437/.436	3-1/2	1-7/16	1-1/2	1/8 X 1/16	1-1/32	3-1/2
180 Shaft Input	.500/.499	4	1-1/2	1-17/32	1/8 X 1/16	1-1/8	4
210 Shaft Input	.625/.624	4-7/16	1-15/32	1-17/32	3/16 X 3/32	1-3/32	4-7/16
260 Shaft Input	.625/.624	5-5/8	2-5/32	2-7/32	3/16 X 3/32	1-7/8	5-5/8
320 Shaft Input	.875/.874	6-3/4	2-17/32	2-9/16	3/16 X 3/32	2	6-3/4
380 Shaft Input	1.000/.999	7-1/8	N/A	2-7/16	1/4 X 1/8	1-7/8	7-1/8
450 Shaft Input	1.000/.999	8-7/16	2-31/32	3-7/32	1/4 X 1/8	2-1/2	8-7/16
520 Shaft Input	1.000/.999	9-1/4	3	3-1/4	1/4 X 1/8	2-15/32	9-1/4

Series	A	B	C	D	E	F	G
130 Quill Input	.437/.436	4-7/32	2-5/32	2-7/32	1/8 X 1/16	1-3/4	3-3/8
180 Quill Input	.437/.436	4-23/32	2-3/16	2-1/4	1/8 X 1/16	1-3/8	3-3/4
210 Quill Input	.562/.560	4-9/16	1-19/32	1-21/32	1/8 X 1/16	1-1/4	4-1/8
260 Quill Input	.562/.560	5-5/8	2-5/32	2-7/32	1/8 X 1/16	1-3/4	See Series 260 Pages
320 Quill Input	.750/.749	6-29/32	2-5/8	2-11/16	3/16 X 3/32	2-1/8	See Series 320 Pages
380 Quill Input	.750/.749	7-9/32	2-1/2	2-9/16	3/16 X 3/32	2	See Series 380 Pages
450 Quill Input	1.000/.999	8-7/16	2-1/2	2-25/32	1/4 X 1/8	2	6-3/4
520 Quill Input	1.000/.999	9-1/4	2-19/32	2-13/16	1/4 X 1/8	2-1/32	7-1/2

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