

# Chelsea® 660 Series

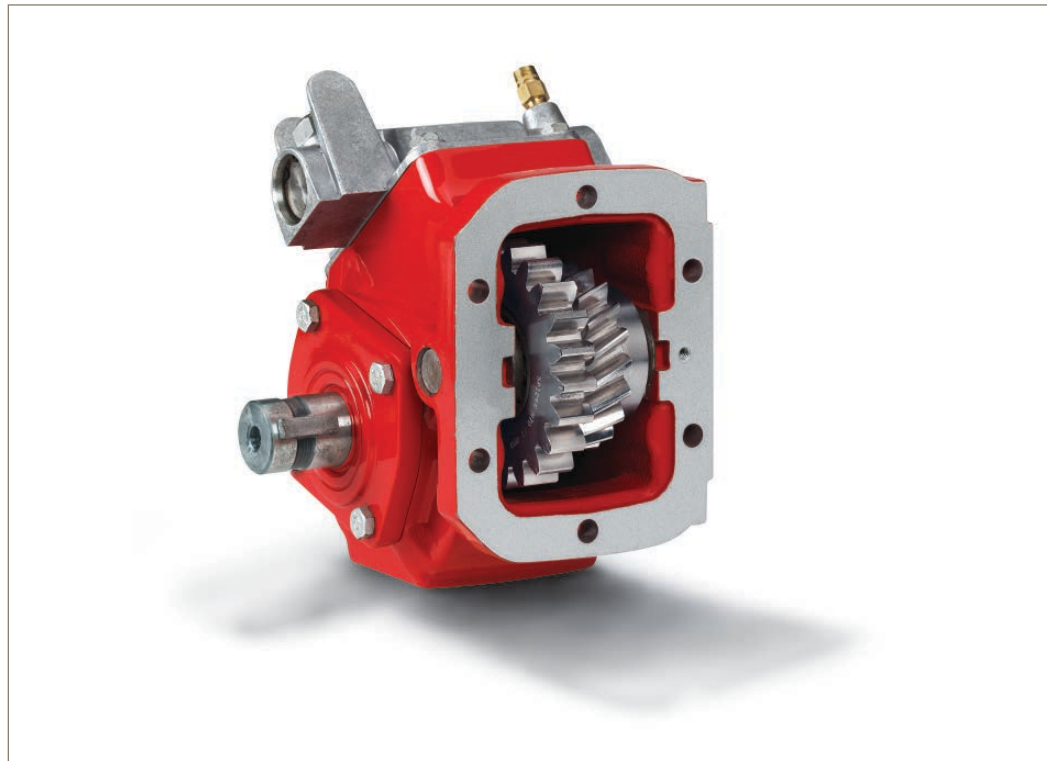
Two Gear Heavy Duty PTO  
for Mechanical Transmission



## Overview:

The Chelsea 660 PTO features a cast iron housing, cast iron bearing caps, and a press fit idler pin with tapered cone bearings and one-piece input gears to give it the highest torque rating and longest service life possible. The space saving air shift cover provides maximum clearance in tight spaces. It offers a large variety of output options including Chelsea's popular 360° rotatable and greaseable pump mount options. It has four internal speed ratios and eleven shift options to make this one versatile PTO. Take advantage of over 70 years of Chelsea PTO technology to increase performance and lower costs.

- Aerial
- Fire & Rescue
- Dump Trucks & Trailers
- Service Trucks
- Blower & Vacuum



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## Product Features and Benefits:

- **Coverage** – Excellent for 6-Bolt Transmissions
- **Torque** – Designed for higher torque applications such as pneumatic blowers
- **Speeds** – Several speed ratios to choose from
- **Outputs** – Twenty-eight output options
- **Shift Options** – Eleven shift options
- **Power** – Torque ratings up to 375 lbs-ft
- **Confidence** – Two year warranty



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# 660 SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA

**660 X Q AH X - A 3 XK**

**Basic Model**  
660

**Mounting Option**  
**X** = Standard Mount  
**G** = Standard Mount w/ Metric Studs  
**K** = Standard Mount w/o Stud Kit  
**Z** = Deep Mount  
**L** = Deep Mount w/o Stud Kit

**Gear Ratio**  
**F** = 21/37  
**H** = 23/35  
**Q** = 19/24  
**R** = 22/24  
**S** = 24/22

**Input Option**  
 Eaton, Mack, Tremec and ZF Transmission  
**NOTE:** For more details, see Application Catalog  
 (Transmission Model Number required)

**Lube Option**  
**X** = No Pressure Lube  
**P** = Pressure Lube

**Shift Option**  
<sup>1</sup>**A** = Air Shift  
<sup>1</sup>**P** = 12V Elec/Air Shift  
**V** = Air Shift w/o Installation Kit  
<sup>21</sup>**S** = Air Shift w/ PTO/Dump Pump Combo Valve w/ Kick Out w/ Neutral Spring Return  
<sup>21</sup>**T** = Air Shift w/ PTO/Dump Pump Combo Valve w/o Kick Out w/ Neutral Spring Return  
<sup>21</sup>**U** = Air Shift w/ PTO/Dump Pump Combo Valve w/ Kick Out w/o Neutral Spring Return  
<sup>1</sup>**W** = Wire Shift  
**X** = Wire Shift w/o Cable & Knob  
**M** = Constant Mesh  
**H** = No Shifter Assembly  
**C** = Special Shift Control & Bracket Kit

## Output Option

### Driveline Output

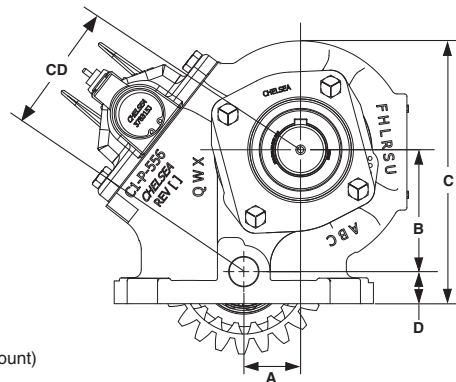
- XD** = Rd Standard Shaft (1-1/4" - 5/16" Key)  
**XV** = 1410 Series Companion Flange  
**XX** = 1-1/4" Tapered Output Shaft w/ Keyway

### Pump Mount

- AK** = SAE B 2-Bolt Flange, SAE B Shaft (7/8" - 13T)  
**AZ** = SAE B 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)  
**XE** = SAE A 2 or 4-Bolt Flange, SAE A Shaft (5/8" - 9T)  
**XK** = SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)  
<sup>59</sup>**XQ** = SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)  
**AF** = SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)  
**GA** = Greaseable SAE B 2-Bolt Rotatable Flange, SAE B Shaft (7/8" - 13T)  
**GB** = Greaseable SAE B 4-Bolt Rotatable Flange, SAE B Shaft (7/8" - 13T)  
**GK** = Greaseable SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)  
<sup>59</sup>**GQ** = Greaseable SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)  
**GH** = Greaseable SAE B 2-Bolt Rotatable Flange, SAE BB Shaft (1" - 15T)  
**GF** = Greaseable SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)  
**GZ** = Greaseable SAE B 2 or 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)  
**GR** = Greaseable Chelsea Special (Cloverleaf), SAE B Shaft (7/8" - 13T)  
**GY** = Greaseable ISO 7653 Pump Mount DIN 5462 Shaft  
**RC** = Rotatable SAE A 2-Bolt Flange, SAE A Shaft (5/8" - 9T)  
**RD** = Rotatable SAE A 2-Bolt Flange, SAE B Shaft (7/8" - 13T)  
**RA** = Rotatable SAE B 2-Bolt Flange, SAE B Shaft (7/8" - 13T)  
**RB** = Rotatable SAE B 4-Bolt Flange, SAE B Shaft (7/8" - 13T)  
**RE** = Rotatable SAE B 4-Bolt Flange, SAE BB Shaft (1" - 15T)  
**RF** = Rotatable SAE B 2-Bolt Flange, SAE BB Shaft (1" - 15T)  
**RK** = Rotatable SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)  
**RY** = Rotatable ISO 7653 Pump Mount DIN 5462 Shaft  
**XR** = Chelsea Special (Cloverleaf), SAE B Shaft (7/8" - 13T)  
**XY** = ISO 7653 Pump Mount DIN 5462 Shaft

## Assembly Arrangement

3, 4, 5, 6



<sup>1</sup> Includes mounting parts.

<sup>21</sup> Includes installation kit, console sold separately.

<sup>59</sup> Same as XK except rotated 90°.

### Dimensions

- A** = 1.401" (F, S Ratios), 1.032" (Q Ratios)  
**B** = 3.007" (F, S Ratios), 2.908" (Q Ratios)  
**C** = 6.428" (X Mount), 6.207" (Z Mount)  
**D** = .7895"-.5755" (X Mount), .5695"-.5755" (Z Mount)

## Specifications Chart

Approximate Weight: 28.2 lbs. [12.8 kg]

	660*F	660*H	660*Q	660*R	660*S
Intermittent Torque Rating (lbs-ft) [Nm]	375 [508]	375 [508]	375 [508]	350 [475]	325 [441]
HP Rating for Intermittent Duty					
At 500 RPM of Output Shaft (HP) [Kw]	36 [27]	36 [27]	36 [27]	33 [25]	31 [23]
At 1000 RPM of Output Shaft (HP) [Kw]	71 [53]	71 [53]	71 [53]	67 [50]	62 [46]
At 1500 RPM of Output Shaft (HP) [Kw]	107 [80]	107 [80]	107 [80]	100 [75]	93 [69]

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