

# Chelsea® 489 Series

Two Gear P.T.O. for Mechanical Transmissions



## Overview:

The Chelsea 489 P.T.O. is another example of why Chelsea P.T.O. technology is the best in the business. It's specifically designed to reduce mounting time. The one-piece, cast iron P.T.O. housing bolts on to the 8-Bolt transmission opening, but gives the same torque capacity as the 442 Series. That means one less part to buy, one less surface to leak, and faster installation. The 489 has strong tapered bearings instead of needle bearings for greater load bearing capability. Thirty six output options including Chelsea's popular 360° rotatable flange. Eleven internal speed ratios and ten shift options plus a self-lube option for transmissions that have problems getting lubrication to the P.T.O. make this one versatile P.T.O. Take advantage of over 65 years of Chelsea P.T.O. technology to increase performance and lower costs.

- Aerial
- Snow & Ice Removal
- Fire and Rescue
- Dump Truck and Trailer
- Service Trucks
- Refuse

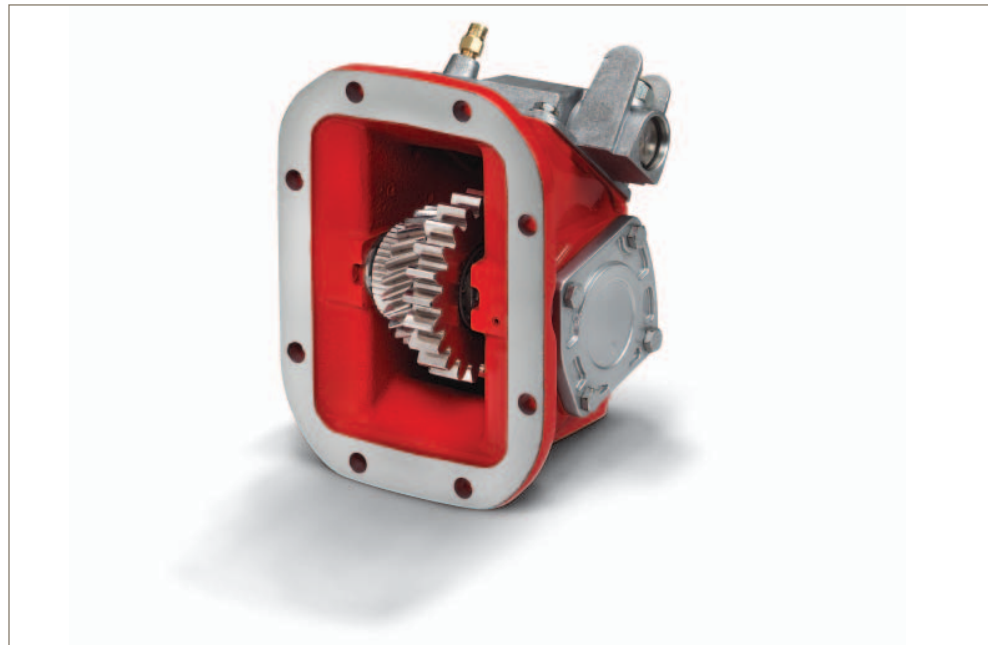
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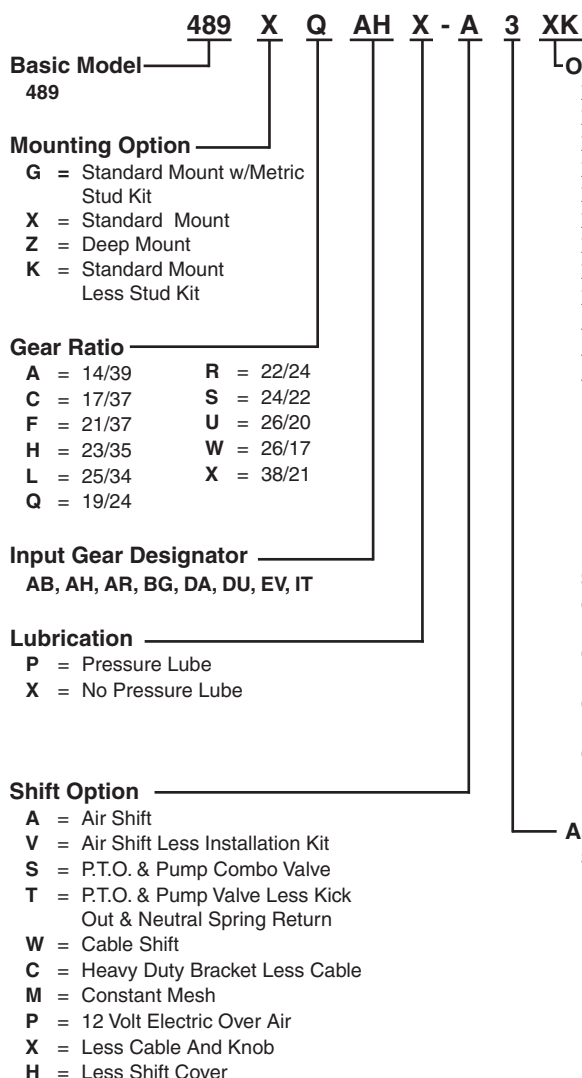
## Product Features and Benefits:

- 442 Series family, but with an 8-Bolt mounting flange
- No adapter plate needed
- Less installation time, less expense and less chance of leakage
- Wide range of shifters options and pump flanges
- Two Year Warranty
- No adapter plate required
- Less chance of leakage
- Reduced installation time
- 36 output options
- 10 shift options
- 11 speed ratios



ENGINEERING YOUR SUCCESS.

## Model Number Designation



### Output Designation

- XD** = 1-1/4" Rd Standard Shaft  
**XE** = S.A.E. "A" 2 or 4-Bolt 5/8" - 9T  
**XG** = S.A.E. "A" 2-Bolt 3/4" Rd  
**XJ** = S.A.E. "A" 2-Bolt 3/4" Rd  
**XK** = S.A.E. "B" 2 or 4-Bolt 7/8" - 13T  
**XQ** = S.A.E. "B" 2 or 4-Bolt 7/8" - 13T  
**XR** = Chelsea Special 7/8" - 13T  
**XX** = Tapered Output Shaft  
**XY** = DIN 5462 8T  
**AK** = S.A.E. "B" 2-Bolt 7/8" - 13T  
**AF** = S.A.E. "BB" 2 or 4-Bolt 1" - 15T  
**AZ** = S.A.E. "B" 4-Bolt 1-1/4" - 14T  
**RA** = Rotatable S.A.E. "B" 2-Bolt 7/8" - 13T  
**RB** = Rotatable S.A.E. "B" 4-Bolt 7/8" - 13T  
**RC** = Rotatable S.A.E. "A" 2-Bolt 5/8" - 9T  
**RD** = Rotatable S.A.E. "A" 2-Bolt 7/8" - 13T  
**RE** = Rotatable S.A.E. "BB" 4-Bolt 1" - 15T  
**RF** = Rotatable S.A.E. "BB" 2-Bolt 1" - 15T  
**RY** = Rotatable DIN 5462 8T  
**SQ** = S.A.E. "B" 4-Bolt 7/8" - 13T  
**GA** = Greaseable Rotatable "B" 2-Bolt 7/8" - 13T  
**GB** = Greaseable Rotatable "B" 4-Bolt 7/8" - 13T  
**GF** = Greaseable S.A.E. "BB" 2 or 4-Bolt 1" - 15T  
**GH** = Greaseable Rot. S.A.E. "BB" 2-Bolt 1" - 15T

- GK** = Greaseable S.A.E. "B" 2 or 4-Bolt 7/8" - 13T  
**GP** = Greaseable S.A.E. "B" 2 or 4-Bolt 7/8" - 13T  
**GQ** = Greaseable S.A.E. "B" 2 or 4-Bolt 7/8" - 13T  
**GR** = Greaseable Chelsea Special 7/8" - 13T  
**GY** = Greaseable DIN 5462 8T  
**GZ** = Greaseable S.A.E. "B" 4-Bolt 1-1/4" - 14T  
**LA** = S.A.E. "B" 2-Bolt w/Self Lube Pump 7/8" - 13T  
**LB** = S.A.E. "A" 2-Bolt w/Self Lube Pump 7/8" - 13T  
**LC** = S.A.E. "B" 2 or 4-Bolt w/Self Lube 7/8" - 13T  
**LD** = 1-1/4" Rd w/Self Lube Pump  
**LF** = S.A.E. "B" 2 or 4-Bolt w/Self Lube 7/8" - 13T  
**PA** = Rotatable S.A.E. "B" 2-Bolt for P2-060 Pump

### Assembly Arrangement

3, 4, 5, 6

## Specifications Chart – 489 Series

	489*A	489*C	489*F	489*H	489*L	489*Q	489*R	489*S	489*U	489*W	489*X
Standard Output Shaft Size	1-1/4" Round w/key										
Intermittent Torque Rating (Lbs. ft.)	250	250	250	250	250	225	225	200	195	175	140
Intermittent Torque Rating (N.m.)	339	339	339	339	339	305	305	271	264	237	190
Horsepower Rating for Intermittent Service											
At 500 R.P.M. of Output Shaft (HP)	24	24	24	24	24	21	21	19	19	17	13
At 1000 R.P.M. of Output Shaft (HP)	48	48	48	48	48	43	43	38	37	33	27
At 500 R.P.M. of Output Shaft (Kw)	18	18	18	18	18	16	16	14	14	12	10
At 1000 R.P.M. of Output Shaft (Kw)	36	36	36	36	36	32	32	28	28	25	20
Approximate Weight:	30 lbs. [13.6 kg]										