

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

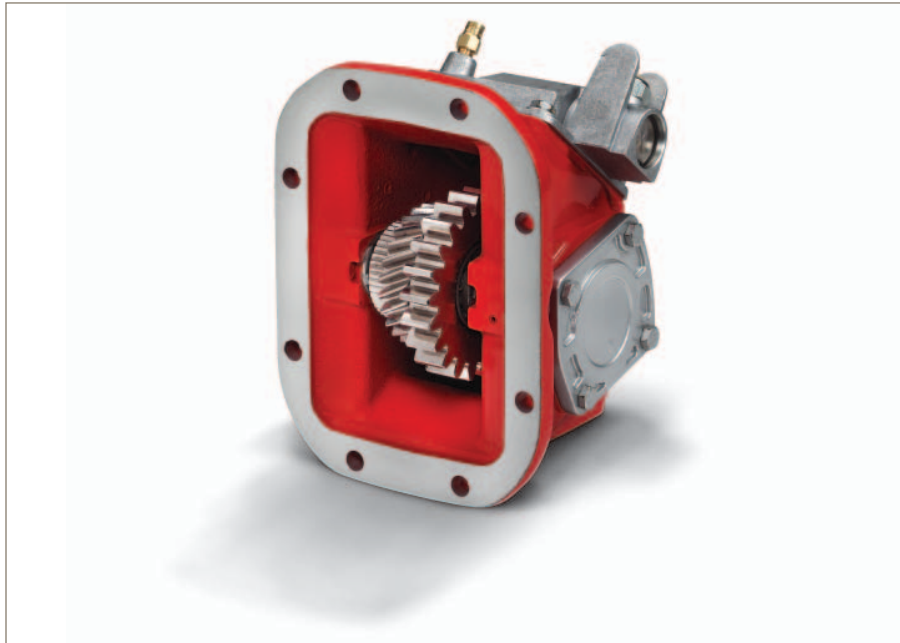
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Product Features and Benefits:

- 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.

489 SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA

4 8 9 X Q A H X - A 3 X K											
Basic Model 489				Output Option							
Mounting Option				AF = S.A.E. "BB" 2 or 4-Bolt 1" - 15T							
G = Standard Mount w/Metric Stud Kit				AK = S.A.E. "B" 2-Bolt 7/8" - 13T							
K = Standard Mount Less Stud Kit				AZ = S.A.E. "B" 4-Bolt 1-1/4" - 14T							
X = Standard Mount				GA = Greaseable Rotatable "B" 2-Bolt 7/8" - 13T							
Z = Deep Mount				GB = Greaseable Rotatable "B" 4-Bolt 7/8" - 13T							
Gear Ratio				GF = Greaseable S.A.E. "BB" 2 or 4-Bolt 1" - 15T							
A = 14/39				GH = Greaseable Rot. S.A.E. "BB" 2-Bolt 1" - 15T							
C = 17/37				GK = Greaseable S.A.E. "B" 2 or 4-Bolt 7/8" - 13T							
F = 21/37				GP = Greaseable S.A.E. "B" 2 or 4-Bolt 7/8" - 13T							
H = 23/35				GQ = Greaseable S.A.E. "B" 2 or 4-Bolt 7/8" - 13T							
L = 25/34				GR = Greaseable Chelsea Special 7/8" - 13T							
Q = 19/24				GY = Greaseable DIN 5462 8T							
R = 22/24				GZ = Greaseable S.A.E. "B" 4-Bolt 1-1/4" - 14T							
S = 24/22				LA = S.A.E. "B" 2-Bolt w/Self Lube Pump 7/8" - 13T							
U = 26/20				LB = S.A.E. "A" 2-Bolt w/Self Lube Pump 7/8" - 13T							
W = 26/17				LC = S.A.E. "B" 2 or 4-Bolt w/Self Lube 7/8" - 13T							
X = 38/21				LD = 1-1/4" Rd w/Self Lube Pump							
Input Option				LF = S.A.E. "B" 2 or 4-Bolt w/Self Lube 7/8" - 13T							
See Parts List for all other Options				PA = Rotatable S.A.E. "B" 2-Bolt for P2-060 Pump							
Lube Option				RA = Rotatable S.A.E. "B" 2-Bolt 7/8" - 13T							
P = Pressure Lube				RB = Rotatable S.A.E. "B" 4-Bolt 7/8" - 13T							
X = No Pressure Lube				RC = Rotatable S.A.E. "A" 2-Bolt 5/8" - 9T							
Shift Option				RD = Rotatable S.A.E. "A" 2-Bolt 7/8" - 13T							
A = Air Shift				RE = Rotatable S.A.E. "BB" 4-Bolt 1" - 15T							
C = Heavy Duty Bracket Less Cable				RF = Rotatable S.A.E. "B" 2-Bolt 1" - 15T							
H = Less Shift Cover				RY = Rotatable DIN 5462 8T							
M = Constant Mesh				SQ = S.A.E. "B" 4-Bolt 7/8" - 13T							
P = 12 Volt Electric Over Air				XD = 1-1/4" Rd Standard Shaft							
S = P.T.O. & Pump Combo Valve				XE = S.A.E. "A" 2 or 4-Bolt 5/8" - 9T							
T = P.T.O. & Pump Valve Less Kick Out & Neutral Spring Return				XG = S.A.E. "A" 2-Bolt 3/4" Rd							
V = Air Shift Less Installation Kit				XJ = S.A.E. "A" 2-Bolt 3/4" Rd							
W = Cable Shift				XK = S.A.E. "B" 2 or 4-Bolt 7/8" - 13T							
X = Less Cable And Knob				XQ = S.A.E. "B" 2 or 4-Bolt 7/8" - 13T							
Assembly Arrangement				XR = Chelsea Special 7/8" - 13T							
3, 4, 5, 6				XX = Tapered Output Shaft							
				XY = DIN 5462 8T							

Specifications Chart

	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]										