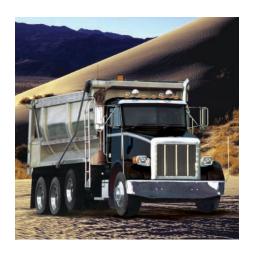
Chelsea® 489 Series

Two Gear PTO for Mechanical **Transmissions**



Overview:

The Chelsea 489 PTO is the best in the business. It's specifically designed to reduce mounting time. The one-piece, cast iron PTO 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 input bearings instead of needle bearings for greater load capacity. Available with twenty-five output options, including Chelsea's popular 360° rotatable flange. Eleven internal speed ratios and thirteen shift options make this one versatile PTO. Take advantage of over 70 years of Chelsea PTO technology to increase performance and lower costs.

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



Parker Hannifin Corporation **Chelsea Products Division** 8225 Hacks Cross Road Olive Branch, MS 38654 USA

Contact Information: Product Features and Benefits:

- Flange 442 Series family, with Outputs Twenty-five output an 8-Bolt mounting flange.
- Adapter Plate Not required.
- Confidence Two Year Warranty.
- Ease of Installation Reduced installation time with less leak points.
- options, including greaseable and rotatable options.
- Shift Options Thirteen shift options.
- Speeds Eleven speed ratios.



489 SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA

XK 489 AH**Basic Model Output Option Driveline Output** 489 XD = Rd Standard Shaft (1-1/4" - 5/16" Key) XX = 1-1/4" Tapered Output Shaft w/ Keyway Mounting Option -Pump Mount X = Standard Mount **XE** = SAE A 2 or 4-Bolt Flange, SAE A Shaft (5/8" - 9T) G = Standard Mount w/ Metric Stud Kit AK = SAE B 2-Bolt Flange, SAE B Shaft (7/8" - 13T) K = Standard Mount w/o Stud Kit SQ = SAE B 4-Bolt Flange, SAE B Shaft (7/8" - 13T) Q = Eaton Endurant XK = SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T) Z = Deep Mount ⁵⁹ **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) Gear Ratio -AZ = SAE B 2 or 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T) A = 14/39R = 22/24GA = Greaseable SAE B 2-Bolt Rotatable Flange, C = 17/37S = 24/22SAE B Shaft (7/8" - 13T) = 21/37U = 26/20**GB** = Greaseable SAE B 4-Bolt Rotatable Flange, H = 23/35W = 26/17SAE B Shaft (7/8" - 13T) L = 25/34X = 38/21**GK** = Greaseable SAE B 2 or 4-Bolt Flange, Q = 19/24SAE B Shaft (7/8" - 13T) ⁵⁹ **GQ** = Greaseable SAE B 2 or 4-Bolt Flange, Input Option -SAE B Shaft (7/8" - 13T) GF = Greaseable SAE B 2 or 4-Bolt Flange, Eaton, Mack, Tremac, Allison, Chelsea, Mercedes, SAE BB Shaft (1" - 15T) Rockwell Transmissions GR = Greaseable Chelsea Special (Cloverleaf), NOTE: For more details, see Application Catalog SAE B Shaft (7/8" - 13T) (Transmission Model Number required) **RC** = Rotatable SAE A 2-Bolt Flange, SAE A Shaft (5/8" - 9T) **Lube Option -**RD = Rotatable SAE A 2-Bolt Flange, X = No Pressure Lube SAE B Shaft (7/8" - 13T) P = Pressure Lube RA = Rotatable SAE B 2-Bolt Flange, SAE B Shaft (7/8" - 13T) Shift Option **RB** = Rotatable SAE B 4-Bolt Flange, ¹**A** = Air Shift SAE B Shaft (7/8" - 13T) V = Air Shift w/o Installation Kit RF = Rotatable SAE B 2-Bolt Flange, SAE BB Shaft (1" - 15T) ¹P = 12V Elec/Air Shift **RK** = Rotatable SAE B 2 or 4-Bolt Flange, Q = 24V Elec/Air Shift SAE B Shaft (7/8" - 13T) **D** = Eaton Endurant[™] 12V Elec/Air Shift

w/ Kick Out w/ Neutral Spring Return

21 T = Air Shift w/ PTO/Dump Pump Combo Valve
w/o Kick Out w/ Neutral Spring Return

²¹S = Air Shift w/ PTO/Dump Pump Combo Valve

²¹U = Air Shift w/ PTO/Dump Pump Combo Valve w/ Kick Out w/o Neutral Spring Return

¹**W** = Wire Shift

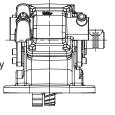
X = Wire Shift w/o Cable & Knob

M = Constant Mesh

H = No Shifter Assembly

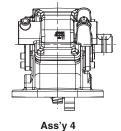
C = Special Shift Control & Bracket Kit

- Includes mounting parts
- ²¹ Includes installation kit, console sold separately
- $^{\rm 59}$ Same as XK except rotated 90 $^{\rm o}$

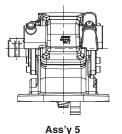


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RE = Rotatable SAE B 4-Bolt Flange,

SAE BB Shaft (1" - 15T)

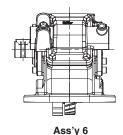
Assembly Arrangement

3, 4, 5, 6

XY = ISO 7653 Pump Mount DIN 5462 Shaft

RY = Rotatable ISO 7653 Pump Mount DIN 5462 Shaft

XR = Chelsea Special (Cloverleaf), SAE B Shaft (7/8" - 13T)



Specifications Chart	Approximate Weight: 30 lbs. [13.6 kg]										
	489*A	489*C	489*F	489*H	489*L	489*Q	489*R	489*S	489*U	489*W	489*X
Intermittent Torque Rating (lbs-ft) [Nm]	250 [339]	250 [339]	250 [339]	250 [339]	250 [339]	225 [305]	225 [305]	200 [271]	195 [264]	175 [237]	140 [190]
HP Rating for Duty											
At 500 RPM of Output Shaft (HP) [Kw]	24 [18]	24 [18]	24 [18]	24 [18]	24 [18]	21 [16]	21 [16]	19 [14]	19 [14]	17 [12]	13 [10]

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Supersedes HY25-0019-B1/US July 2018

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At 1000 RPM of Output Shaft (HP) [Kw] | 48 [36]

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