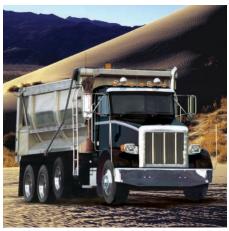
# Chelsea® 489 Series

Two Gear PTO for Mechanical **Transmissions** 



#### Overview:

The Chelsea 489 Series PTO is the best in the business. Designed to simplify installation and reduce mounting time, the 489 Series is a one-piece, cast iron PTO, which 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 Series has strong tapered input bearings instead of needle bearings for greater load capacity. There now are twentyseven output options available for this versatile PTO, including the brand new RJ output. Eleven internal speed ratios and fifteen shift options make this one versatile PTO. Take advantage of over 75 years of Chelsea PTO technology to increase performance and lower costs. With the newly added RJ output option, our 489 Series PTO will have an SAE B 2 or 4-Bolt Rotatable Flange with an SAE BB Shaft (1" - 15T internal spline).

## **Applications:**

Aerial

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

### Contact Information:

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chd service@support.parker.com

www.parker.com/chelsea

## **Product Features and Benefits:**

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





#### 489 SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA

#### AHXKL Output Option Basic Model -489 **Driveline Output XD** = Rd Standard Shaft (1-1/4" - 5/16" Key) XX = 1-1/4" Tapered Output Shaft w/ Keyway Mounting Option G = Standard Mount w/ Metric **Pump Mount** AF = SAE B 2 or 4-Bolt Flange, SAE BB Shaft Stud Kit (1" - 15T) Standard Mount w/o Stud Kit \* Q = Eaton Endurant™ AK = SAE B 2-Bolt Flange, SAE B Shaft \* X = Standard Mount (7/8" - 13T)**Z** = Deep Mount AZ = SAE B 4-Bolt Flange, SAE C Shaft **D** = Daimler DT12<sup>™</sup> w/ Reg Adapter (1-1/4" - 14T)(See Daimler - specific output options) **GA** = Greaseable SAE B 2-Bolt Rotatable Flange, SAE B Shaft (7/8" - 13T) GB = Greaseable SAE B 4-Bolt Rotatable Flange, **Gear Ratio** SAE B Shaft (7/8" - 13T) A = 14/39 $\mathbf{R} = 22/24$ **GF** = Greaseable SAE B 2 or 4-Bolt Flange, C = 17/37 $^{1}$ **S** = 24/22SAE BB Shaft (1" - 15T) = 21/37U = 26/20**GK** = Greaseable SAE B 2 or 4-Bolt Flange, H = 23/35W = 26/17SAE B Shaft (7/8" - 13T) X = 38/21L = 25/3459 GQ = Greasable SAE B 2 or 4-Bolt Flange, Q = 19/24SAE B Shaft (7/8' - 13T) **GR** = Greaseable Chelsea Special (Cloverleaf). SAE B Shaft (7/8" - 13T) AB, AH, AR, BG, DA, DU, EV, IT, LZ, \*MA, \*MB, \*MC, \*ME RA = Rotatable SAE B 2-Bolt Flange, SAE B Shaft NOTE: For more details, see Application Catalog (7/8" - 13T)(Transmission Model Number required) RB = Rotatable SAE B 4-Bolt Flange, SAE B Shaft (7/8" - 13T)Lube Option RC = Rotatable SAE A 2-Bolt Flange, SAE A Shaft **Pressure Lube** (5/8" - 9T)P = Pressure Lube RD = Rotatable SAE A 2-Bolt Flange, SAE B Shaft No Pressure Lube (7/8" - 13T)**X** = Splash Lubrication/No Pressure Lubrication **RE** = Rotatable SAE B 4-Bolt Flange, SAE BB Shaft (1" - 15T) Shift Option **RF** = Rotatable SAE B 2-Bolt Flange, SAE BB Shaft (1" - 15T) Air Shift \* RJ = Rotatable SAE B 2 or 4-Bolt Flange, = Air Shift SAE BB Shaft (1" - 15T) <sup>1</sup> P = 12VDC Elec/Air Shift \* Q = 24VDCElec/Air Shift \* **RK** = Rotatable SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T) \* **D** = 12VDC Elec/Air Shift Eaton Endurant™ 79 RY = Rotatable ISO 7653 Pump Mount <sup>21</sup>S = Air Shift w/ PTO/Dump Pump Combo Valve w/ Kick Out w/ Neutral Spring Return DIN 5462 Shaft <sup>21</sup> **T** = Air Shift w/ PTO/Dump Pump Combo Valve **SQ** = SAE B 4-Bolt Flange, w/o Kick Out w/ Neutral Spring Return SAE B Shaft (7/8" - 13T) \* 21 U = Air Shift w/ PTO/Dump Pump Combo Valve **XE** = SAE A 2 or 4-Bolt Flange, w/ Kick Out w/o Neutral Spring Return SAE A Shaft (5/8" - 9T) V = Air Shift Less Installation Kit **XK** = SAE B 2 or 4-Bolt Flange, Wire Shift SAE B Shaft (7/8" - 13T) 1 W = Wire Shift 59 XQ = SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T) X = Wire Shift w/o Cable & Knob XR = Chelsea Special (Cloverleaf), Other Shift SAE B Shaft (7/8" - 13T) C = Special Shift Control & Bracket Kit Double Acting (DA) Shift Less Installation Kit for \* XV = 1410 Series Companion Flange Daimler DT12™ & Eaton Endurant XD™ **XY** = ISO 7653 Pump Mount Double Acting (DA) Shift for Eaton Endurant XD™ DIN 5462 Shaft **H** = No Shifter Assembly

**Assembly Arrangement** 

3 = Right side - bulge down Left side - bulge up
4 = Right side - bulge down Left side - bulge up
5 = Left side - bulge down Right side - bulge up
6 = Left side - bulge down Right side - bulge up

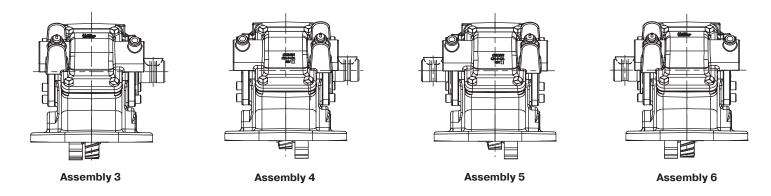
\* New option added

M = Constant Mesh

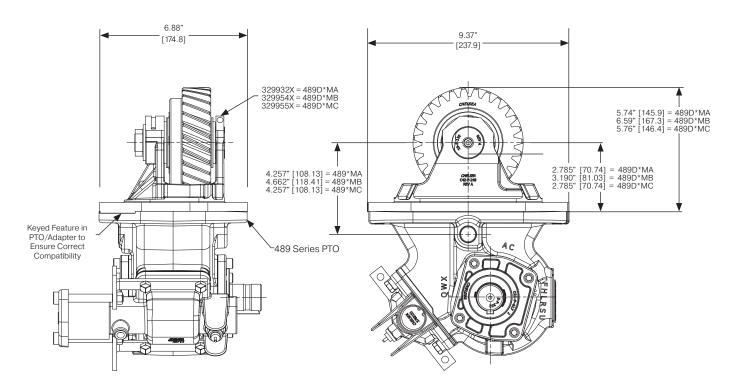
- 1 Includes mounting parts
- <sup>21</sup> Includes installation kit, console sold separately
- 59 Same as XK excerpy rotated 90°
- 79 Flooded Cavity

#### 489 SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA

#### **Assembly Arrangements**



#### PTO Daimler DT12™ Adapter



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 (lb-ft) [N-m]	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 [13]	13 [10]
At 1000 RPM of Output Shaft (HP) [kW]	48 [36]	48 [36]	48 [36]	48 [36]	48 [36]	43 [32]	43 [32]	38 [28]	37 [28]	33 [25]	27 [20]

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