

CHELSEA® 489 SERIES

Two Gear PTO for Mechanical Transmissions

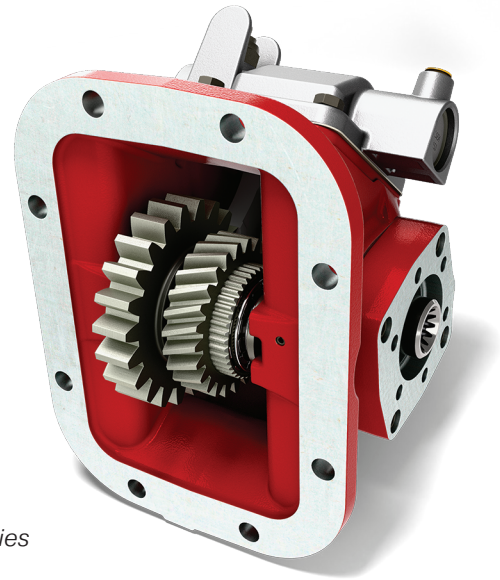
Chelsea's 489 Series PTO sets new industry standards, with simple installation and reduced mounting time. This one-piece cast iron PTO gives the same torque capacity as the 442 Series and offers faster installation and strong tapered input bearings for greater load capacity. Multiple output options, including the RJ output, are available for this versatile PTO, along with numerous internal speed ratios and shift options. Chelsea's innovative PTO technology increases performance and reduces costs. With the RJ output option, the 489 Series has a SAE B 2 or 4-bolt rotatable flange with a SAE BB Shaft (1" - 15T internal spline).

Applications:

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

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 fewer leak points.
- Outputs - Multiple output options, including greaseable and rotatable options.
- Numerous shift options and speed ratios.

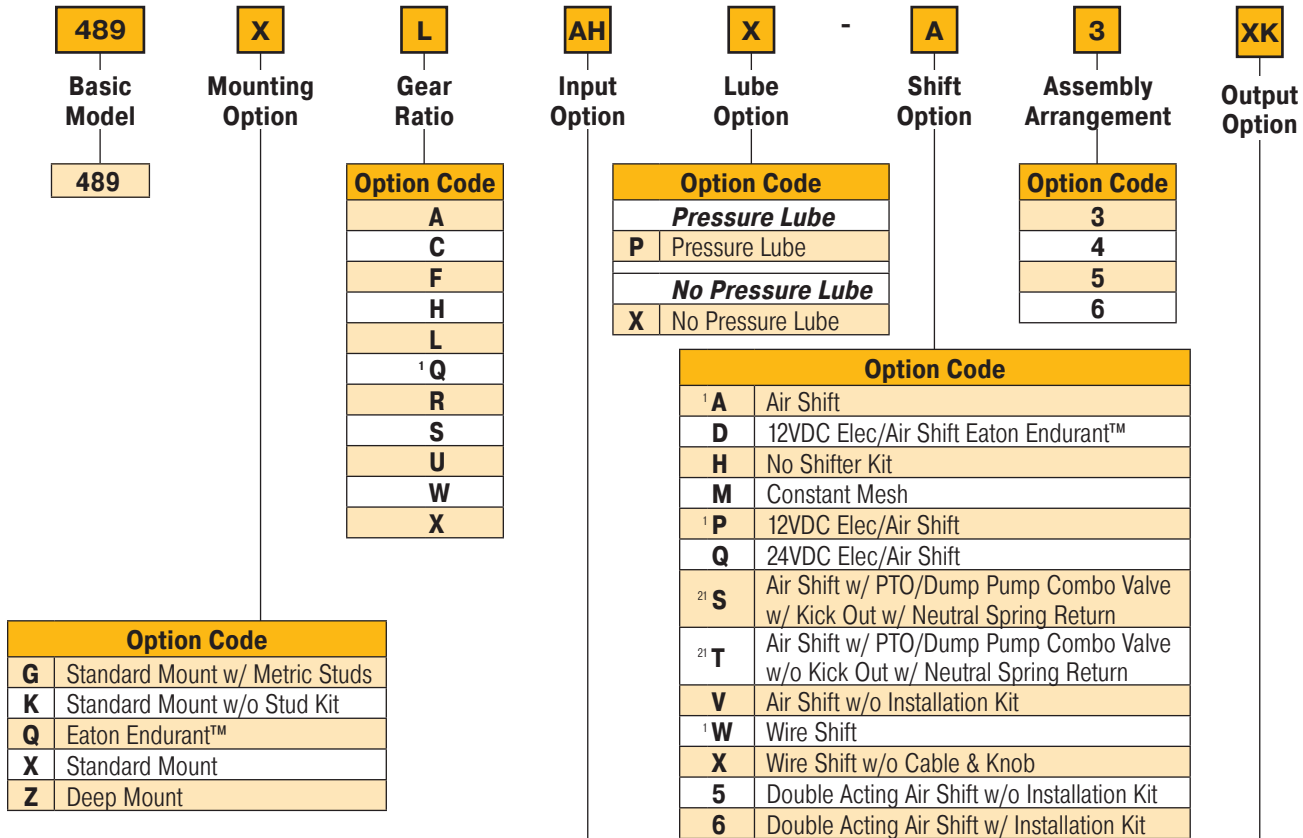


489 Series



489 Series Power Take-Off – Multiple Transmission Options

Model Number Designator



Input Gear Designator		
489** AH	489* CIT	489* HLZ
489** AR	¹² 489* CLZ	489* HWX
489** BG	489* FAH	489* HXX
489** DA	489* FAR	489* LIT
489** EV	489* FBG	489* LME
⁷⁵ 489** LZ	489* FDA	489* QME
¹² 489** AH	489* FDU	489* QIT
¹² 489** AAR	489* FEV	489* RIT
¹² 489** ADA	489* FIT	489* RLZ
489* AIT	489* FME	489* RME
489* AME	489* FLZ	489* SIT
¹² 489** CAH	489* HAH	489* UIT
¹² 489** CAR	489* HDA	489* WIT
¹² 489** CDA	489* HIT	489* XIT

Option Code
XD Rd Standard Shaft (1-1/4" - 5/16" Key)
XX 1-1/4" Tapered Output Shaft w/ Keyway
Pump Mount
AF SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)
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)
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)
GF Greaseable SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)
GH Greaseable SAE 2 or 4-Bolt (1" - 15T)
GK Greaseable SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
GL Greaseable SAE 2 or 4-Bolt (7/8" - 15T)
⁵⁹ GQ Greaseable SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
GR Greaseable Chelsea Special (Cloverleaf), SAE B Shaft (7/8" - 13T)
GY Greaseable DIN 5462 Pump Mount, DIN 5462 Shaft (B8x32x36)
GZ Greaseable SAE B 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)
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)
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)
RE Rotatable SAE B 4-Bolt Flange, SAE BB Shaft (1" - 15T)
RF Rotatable SAE B 2-Bolt Flange, SAE BB Shaft (1" - 15T)
RJ Rotatable SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)
RK Rotatable SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
⁷⁹ RY Rotatable DIN 5462 Pump Mount, DIN 5462 Shaft (B8x32x36)
SQ SAE B 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
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)
⁵⁹ XQ SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
XR Chelsea Special (Cloverleaf), SAE B Shaft (7/8" - 13T)
XY DIN 5462 Pump Mount, DIN 5462 Shaft (B8x32x36)

¹ Includes mounting parts

¹² A and C ratio NOT available with XK and AK output options

²¹ Includes installation kit, console sold separately

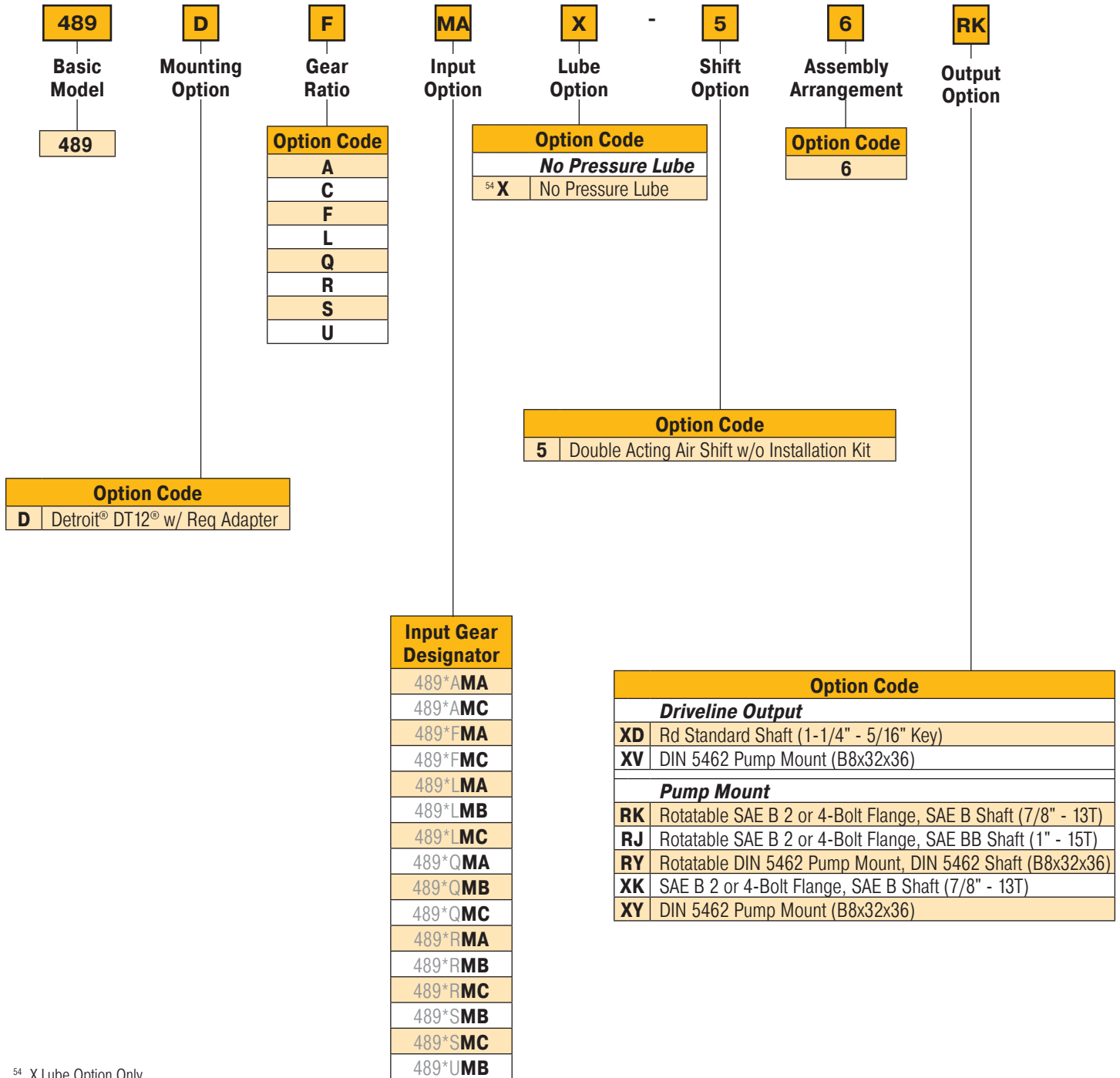
⁵⁹ Same as XK except rotated 90°

⁷⁵ Must use D or V shift options only

⁷⁹ Flooded cavity

489 Series Power Take-Off – For Detroit® DT12®

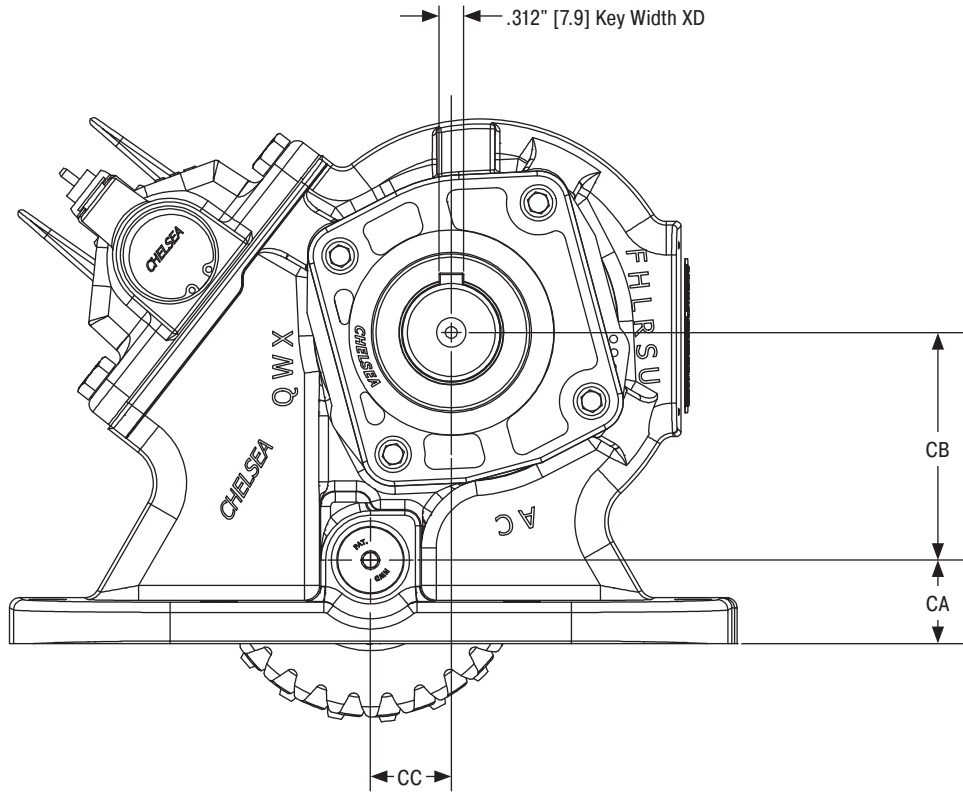
Model Number Designator



⁵⁴ X Lube Option Only

489 Series Power Take-Off – Multiple Transmission Options

Dimensions & Specifications – For PTO output information see application catalog

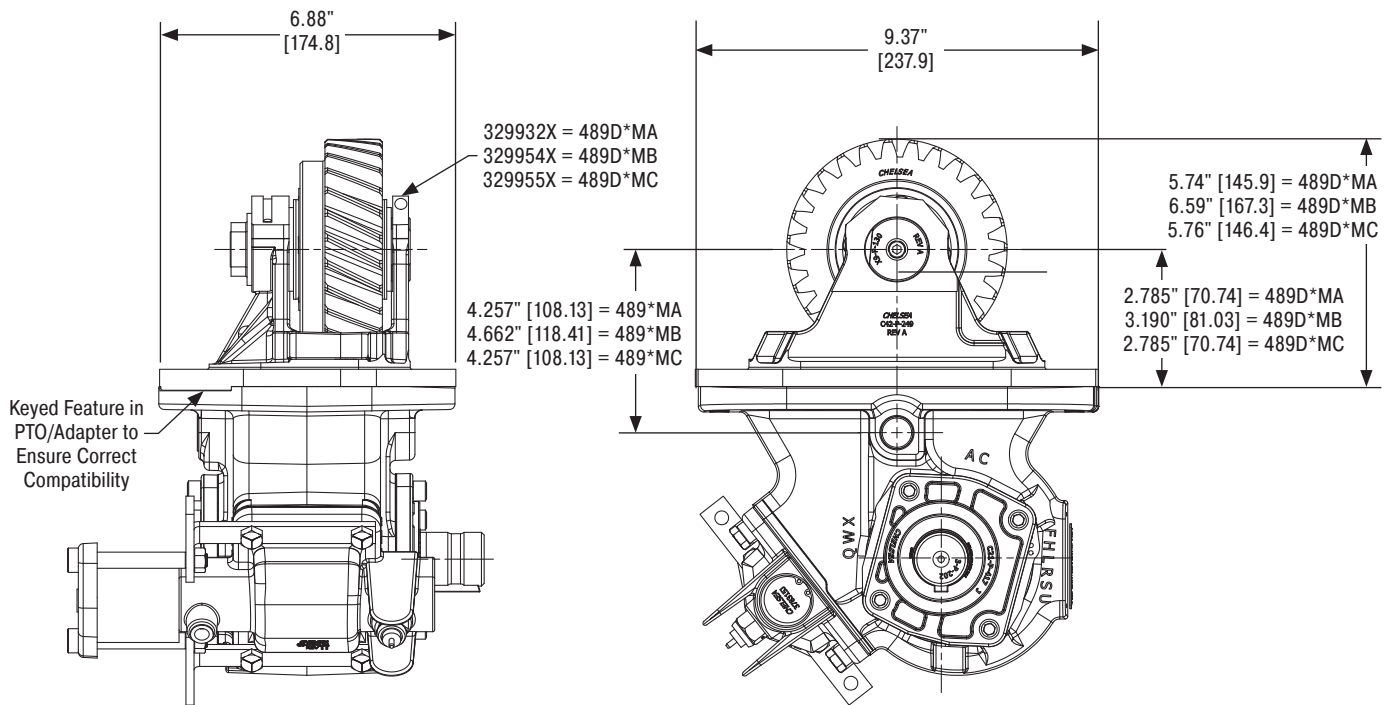


PTO Series	CA	PTO Series	CB	CC
489 Series (X & D Mount)	1.07" [27.1]	489 Series (Q, W & X Ratios)	2.91" [73.9]	1.03" [26.3]
489 Series (Z Mount)	.93" [23.6]	489 Series (A & C Ratios)	2.78" [70.5]	1.27" [32.2]
489 Series (E Mount)	.71" [18.0]	489 Series (F, H, L, S & U Ratios)	3.01" [76.4]	1.41" [35.6]
489 Series (C Mount)	1.03" [26.1]			
489 Series (Q Mount)	.86" [21.9]			

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 Intermittent Service											
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]

489 Series Power Take-Off – For Detroit® DT12®

Dimensions & Specifications – For PTO output information see application catalog



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