

Chelsea® 442 Series

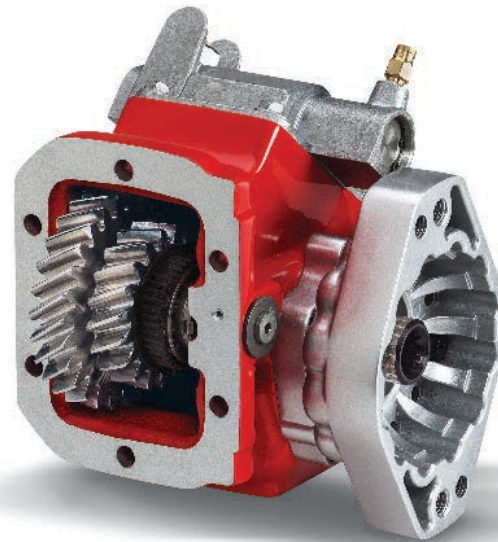
Two Gear PTO for Mechanical and Automatic Transmissions



Overview:

The Chelsea 442 PTO is the best in the business. This economical workhorse features a cast iron housing and tapered cone bearings on the output shaft giving it a high torque rating and long service life. It also has strong tapered input bearings instead of needle bearings for greater load capability. The space saving air shift cover provides maximum clearance under the truck. Available with twenty-four output options including Chelsea's popular 360° rotatable flange. Twelve 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
- Snow & Ice Removal
- Dump Truck & Trailer
- Fire and Rescue
- Refuse
- Service



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Product Features and Benefits:

- **Transmissions** – Engineered to work with virtually all existing transmission applications.
- **Housing** – Economical workhorse features a cast iron housing.
- **Backlash** – Easy to check and adjust.
- **Torque** – Tapered cone bearings for high torque rating and long service life.
- **Idler Pin** – Slip fit for easy serviceability.
- **Confidence** – Two year warranty.



ENGINEERING YOUR SUCCESS.

442 SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA

4 4 2 X Q A H X - A 3 X K

Basic Model
442

Mounting Option
G = Standard Mount w/ Metric Studs
K = Standard Mount w/o Stud Kit
L = Deep Mount w/o Stud Kit
Q = Eaton Precision
X = Standard Mount
Z = Deep Mount

Gear Ratio
A = 14/39 **Q** = 19/24
B = 14/39 **R** = 22/24
C = 17/37 **S** = 24/22
F = 21/37 **U** = 26/20
H = 23/35 **W** = 26/17
L = 25/34 **X** = 38/21

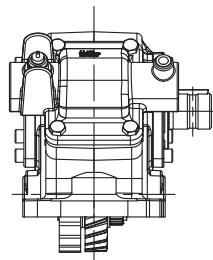
Input Option
 Eaton, Mack, Tremac, Allison, Chelsea, Mercedes, Rockwell Transmissions
NOTE: For more details, see Application Catalog (Transmission Model Number required)

Lube Option
X = No Pressure Lube
P = Pressure Lube

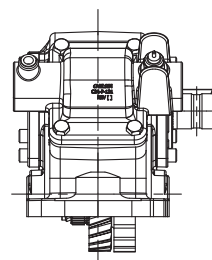
Shift Option
¹**A** = Air Shift
V = Air Shift w/o Installation Kit
¹**P** = 12V Elec/Air Shift
¹**D** = Eaton Precision 12V Elec/Air
²¹**S** = Air Shift w/ PTO/Dump Pump Combo Valve w/ Kick Out w/ Neutral Spring Return
²¹**T** = Air Shift w/ PTO/Dump Pump Combo Valve w/o Kick Out w/ Neutral Spring Return
²¹**U** = 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
M = Constant Mesh
H = No Shift Assembly
C = Special Shift Control & Bracket Kit
E = Eaton Precision® Hydraulic Shift

Output Option
Driveline Output
XD = Rd Standard Shaft (1-1/4" - 5/16" Key)
XX = 1-1/4" Tapered Output Shaft w/ Keyway
Pump Mount
XE = SAE A 2 or 4-Bolt Flange, SAE A Shaft (5/8" - 9T)
AK = SAE B 2-Bolt Flange, SAE B Shaft (7/8" - 13T)
SQ = SAE B 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
AZ = SAE B 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)
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)
AF = SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)
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)
GK = Greaseable SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
⁵⁹**GQ** = Greaseable SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
GF = Greaseable SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)
GR = Greaseable Chelsea Special (Cloverleaf), 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)
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)
RF = Rotatable SAE B 2-Bolt Flange, SAE BB Shaft (1" - 15T)
RK = Rotatable SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
RE = Rotatable SAE B 4-Bolt Flange, SAE BB Shaft (1" - 15T)
RY = Rotatable ISO 7653 Pump Mount DIN 5462 Shaft
XR = Chelsea Special (Cloverleaf), SAE B Shaft (7/8" - 13T)
XY = ISO 7653 Pump Mount DIN 5462 Shaft

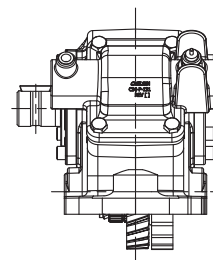
Assembly Arrangement
3, 4, 5, 6



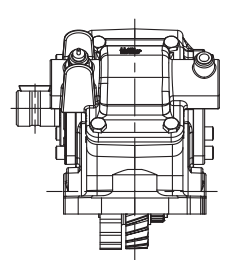
Ass'y 3



Ass'y 4



Ass'y 5



Ass'y 6

¹ Includes mounting parts

²¹ Includes installation kit, console sold separately

⁵⁹ Same as XK except rotated 90°

Specifications Chart	Approximate Weight: 30 lbs. [13.6 kg]											
	442*A	442*B	442*C	442*F	442*H	442*L	442*Q	442*R	442*S	442*U	442*W	442*X
Intermittent Torque Rating (lbs-ft) [Nm]	250 [339]	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]	24 [18]	21 [16]	21 [16]	19 [14]	19 [14]	17 [12]	13 [10]
At 1000 RPM of Output Shaft (HP) [Kw]	48 [36]	48 [36]	48 [36]	48 [36]	48 [36]	48 [36]	43 [32]	43 [32]	38 [28]	37 [28]	33 [25]	27 [20]