

Chelsea® 442 Series

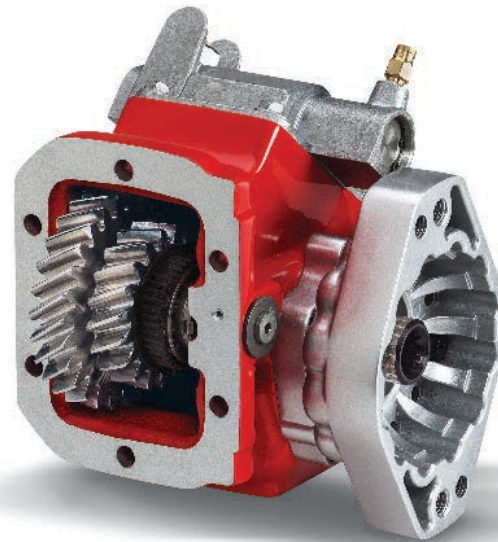
Two Gear PTO for Mechanical and Automatic Transmissions



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



Contact Information:

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

Phone: 1-888-PH4-TRUK
(1-888-744-8785)
Fax: 1-662-895-1069
chelseacustserv@parker.com

www.parker.com/chelsea

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

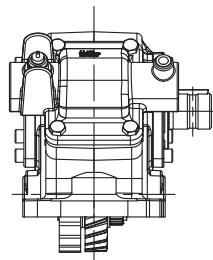
Input Option
 Eaton, Mack, Tremac, Allison, Chelsea, Mercedes, Rockwell Transmissions
NOTE: For more details, see Application Catalog (Transmission Model Number required)

Lube Option
X = No Pressure Lube
P = Pressure Lube

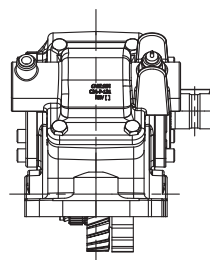
Shift Option
¹**A** = Air Shift
V = Air Shift w/o Installation Kit
¹**P** = 12V Elec/Air Shift
¹**D** = Eaton Precision 12V Elec/Air
²¹**S** = Air Shift w/ PTO/Dump Pump Combo Valve w/ Kick Out w/ Neutral Spring Return
²¹**T** = Air Shift w/ PTO/Dump Pump Combo Valve w/o Kick Out w/ Neutral Spring Return
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)
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)
AZ = SAE B 2 or 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)
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

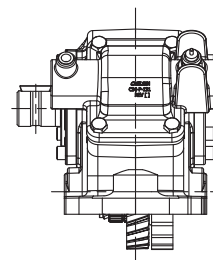
Assembly Arrangement
3, 4, 5, 6



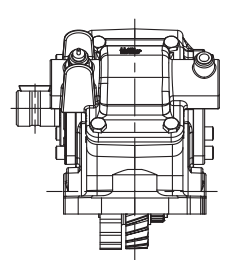
Ass'y 3



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]

Chelsea® 489 Series

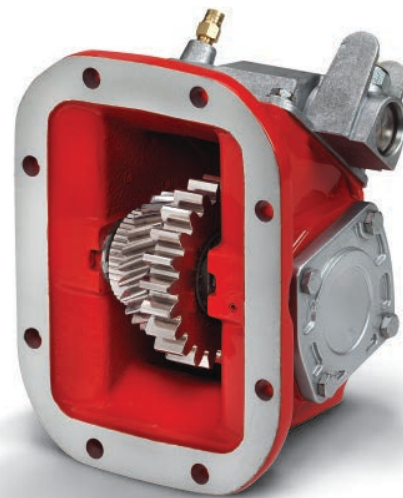
Two Gear PTO for Mechanical Transmissions



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



Contact Information:

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

Phone: 1-888-PH4-TRUK
(1-888-744-8785)

Fax: 1-662-895-1069
chelseacustserv@parker.com

www.parker.com/chelsea

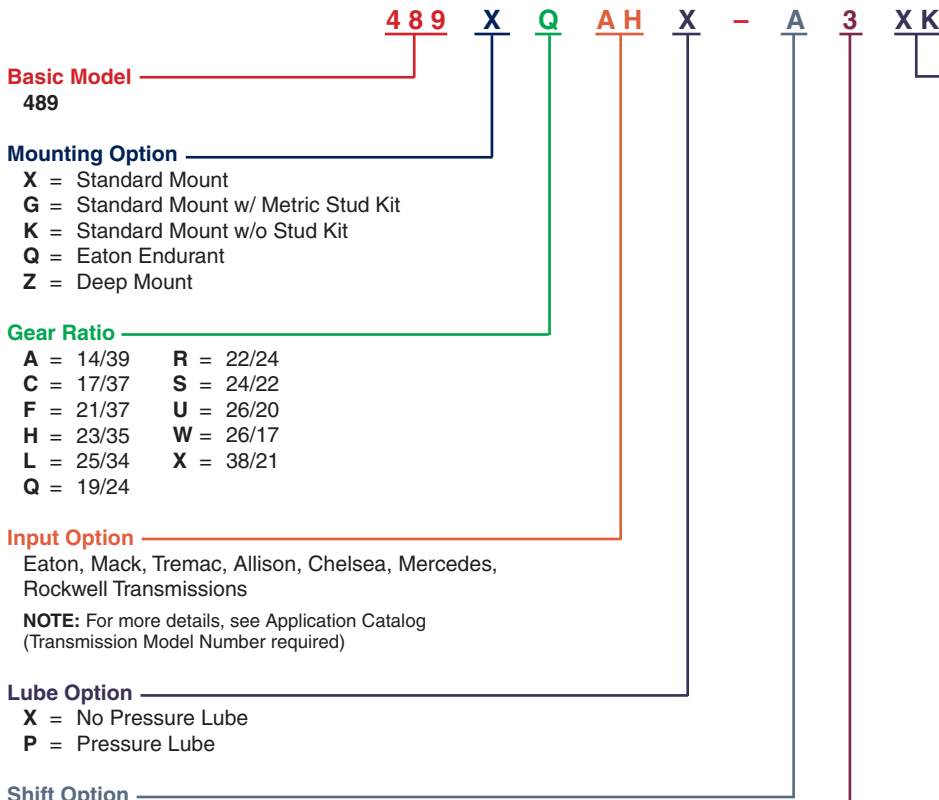
Product Features and Benefits:

- **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-five output options, including greaseable and rotatable options.
- **Shift Options** – Thirteen shift options.
- **Speeds** – Eleven speed ratios.



ENGINEERING YOUR SUCCESS.

489 SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA



Basic Model
489

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

Gear Ratio
A = 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
Q = 19/24

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
Q = 24V Elec/Air Shift
D = Eaton Endurant™ 12V Elec/Air Shift
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 & Knob
M = Constant Mesh
H = No Shifter Assembly
C = Special Shift Control & Bracket Kit

Output Option

Driveline Output

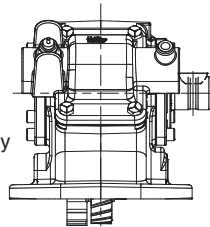
XD = Rd Standard Shaft (1-1/4" - 5/16" Key)
XX = 1-1/4" Tapered Output Shaft w/ Keyway

Pump Mount

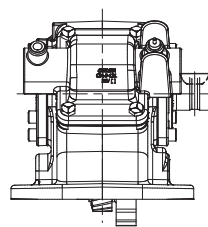
XE = SAE A 2 or 4-Bolt Flange, SAE A Shaft (5/8" - 9T)
AK = SAE B 2-Bolt Flange, SAE B Shaft (7/8" - 13T)
SQ = SAE B 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
XK = SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
⁵⁹**XQ** = SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)
AF = SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)
AZ = SAE B 2 or 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)
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

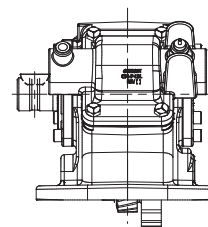
3, 4, 5, 6



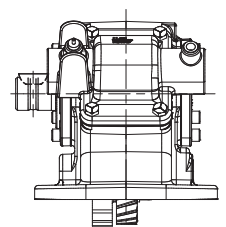
Ass'y 3



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]

	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]
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]

Chelsea® 880 Series

8-Bolt Heavy Duty Mechanical PTO



Overview:

Not every PTO is as tough as an 880. That's because many don't need to be. But if you're using bulk haulers, fire trucks, oil rigs, utility and generator applications, large truck recovery or other tough challenges, the Chelsea 8-Bolt 880 Series PTO is designed for high and low speed, high torque applications with constant mesh input gears. It features a standard lever control shift, or an optional air control shift. Pressure lubrication is available to ensure longer bearing life. Tapered cone bearing offer excellent load bearing capability. And the rugged cast-iron housing is extremely durable. The shift cover is removable, making backlash adjustment easier and more accurate. The 880 is an 8-Bolt heavy-duty PTO rated for up to 500 lbs-ft torque for intermittent service.

- Bulk Haulers
- Aerial Trucks
- Fire Trucks
- Large Recovery Trucks
- Oil Field



Contact Information:

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

Phone: 1-888-PH4-TRUK
(1-888-744-8785)

Fax: 1-662-895-1069
chelseacustserv@parker.com

www.parker.com/chelsea

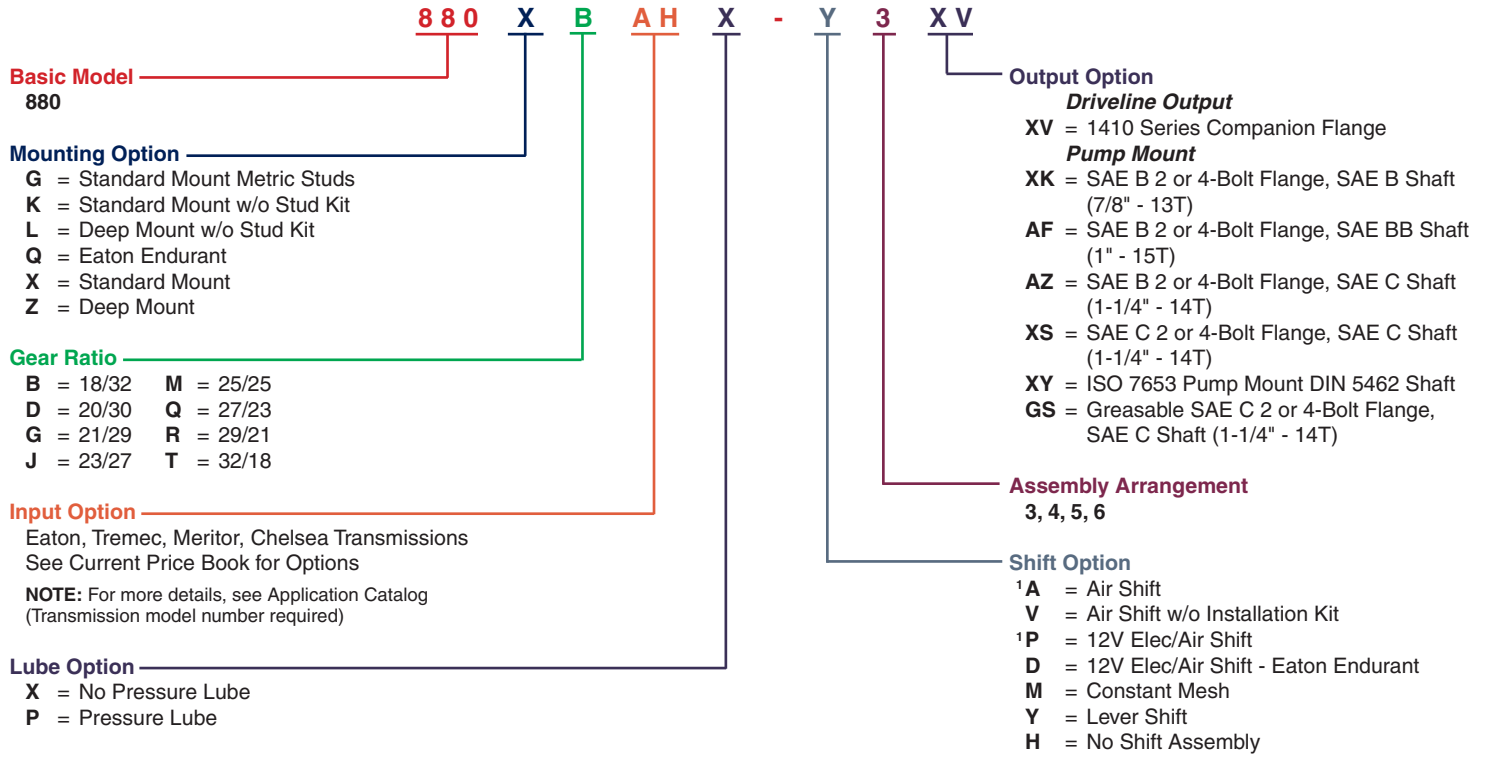
Product Features and Benefits:

- **Coverage** – Wide coverage for tough applications
- **Output Options** – Ten (10) output options
- **Speed Ratios** – Eight (8) internal speed ratios
- **Shift Cover** – Removable for adjusting backlash
- **Torque** – Up to 500 lbs-ft
- **Blower Applications** – High speed and torque for pneumatic blower applications
- **Confidence** – Two Year Warranty

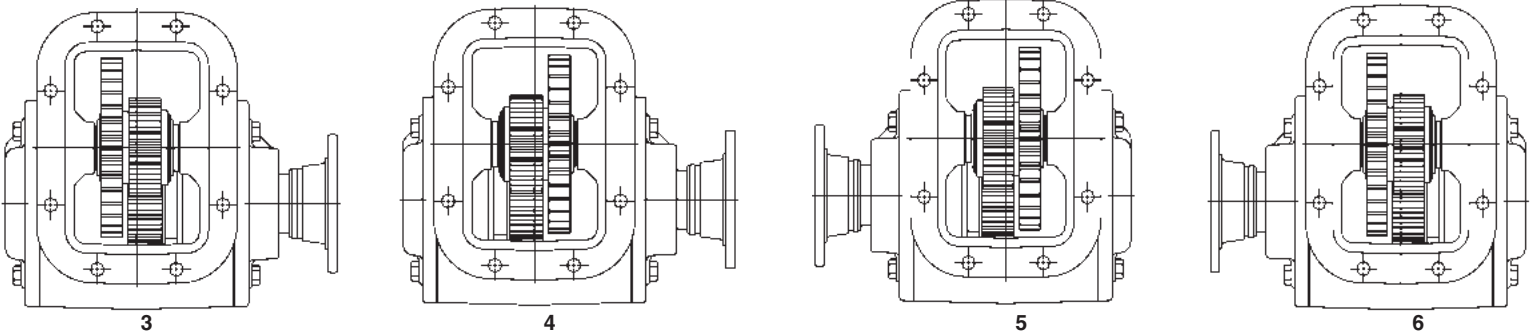


ENGINEERING YOUR SUCCESS.

880 SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA



¹ Includes mounting parts



Specifications Chart	Approximate Weight: 63 lbs. [28.6 kg]							
	880*B	880*D	880*G	880*J	880*M	880*Q	880*R	880*T
Intermittent Torque Rating (lbs-ft) [Nm]	500 [678]	500 [678]	500 [678]	500 [678]	500 [678]	450 [610]	400 [542]	350 [475]
HP Rating for Intermittent Duty								
At 500 RPM of Output Shaft (HP) [Kw]	48 [95]	48 [95]	48 [95]	48 [95]	48 [95]	43 [32]	38 [28]	33 [25]
At 1000 RPM of Output Shaft (HP) [Kw]	95 [71]	95 [71]	95 [71]	95 [71]	95 [71]	86 [64]	76 [57]	67 [50]

© 2019 Parker Hannifin Corporation

Supersedes HY25-0017-B1/US July 2018

HY25-0017-B1/US February 2019



ENGINEERING YOUR SUCCESS.