# Chelsea® 280 Series

PowerShift Hydraulic 10-Bolt



#### Overview:

The 280 Series is a PTO design utilizing the best of our technology and innovations from our current Hot Shift PTOs. The 280 Series combines our 277 and 278 Series into one model of PTO. It features a single continuous duty torque rating - No more intermittent rating. Pump clearance issues have been improved with rotatable cast iron flanges, and the Wet Spline Lubrication option provide 7 to 10 times greater shaft life. A broader coverage of speed ratios expanded from 5 ratios to 9 ratios and includes lower and higher speeds that were never available in the past. The standard output shaft features a new positive stop for driveline outputs that eliminates oil seal damage by the driveline coupling. Three positions for the integrated solenoid valve, plus a remote mount option provides maximum clearance under the truck. The pressure lube hose will be included with the 280 Series. No need to order separately. Versatility, power, ease of maintenance and installation make the 280 Series the best choice for fire & rescue, vacuum, truck cranes, and refuse truck requirements.

- Fire & Rescue
- Pumper CleanerTruck Cranes
- Refuse

## **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



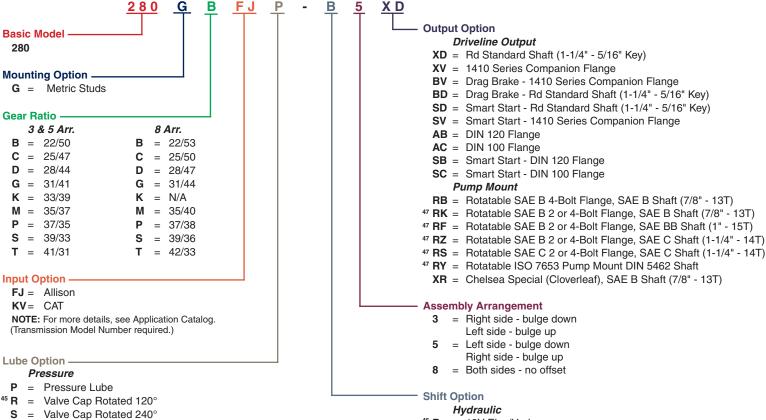
### **Product Features and Benefits:**

- **Torque** Features a single continuous duty torque rating.
- Power Best in class torque ratings.
- Clearance Interference issues have been reduced with rotatable cast iron flanges.
- Positive Stop Driveline outputs; eliminates oil seal damage from coupling.
- Protection Wet Spline Lubrication option provide 7 to 10 times greater shaft life.

- Speeds Broader coverage of speed ratios expanded from 5 ratios to 9 ratios.
- Outputs Lower and higher speeds now available.
- Hose Included No need to order separately.
- Smart Start Option available to reduce shock load at startup for certain applications.



#### 280 SERIES POWER TAKE-OFF MODEL NUMBER DESIGNATOR & SPECIFICATIONS

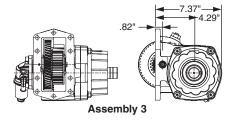


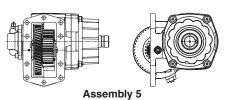
= Wet Spline

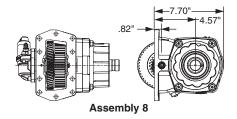
Wet Spline

- = Valve Cap Rotated 120° w/ Wet Spline
- Valve Cap Rotated 240° w/ Wet Spline
- <sup>15</sup> The remote mount solenoid option can not utilize the EOC option.
- Includes Installation Kit, Console Sold Separately.
- Available on Shift Option B, D, K, L, M, N, S & T.
- Available with Rotated Valve.
- Available with Wet Spline.

- = 12V Elec/Hyd
- = 24V Elec/Hyd
- = 12V Elec/Hyd w/o Installation Kit
- = 24V Elec/Hyd w/o Installation Kit
- 46 K = 12V Elec/Hyd w/ EOC
- = 24V Elec/Hyd w/ EOC
- <sup>15</sup> **G** = 12V Elec/Hyd Remote Valve w/o EOC
- <sup>15</sup> **H** = 24V Elec/Hyd Remote Valve w/o EOC
- = 12V Elec/Hyd w/ Air Shift PTO/Dump Pump Combo Valve, w/ Kick Out, w/ Neutral Spring Return
- 12V Elec/Hyd w/ Air Shift PTO/Dump Pump Combo Valve, w/o Kick Out, w/ Neutral Spring Return







Specifications Chart	Approximate Weight: 49 lbs. [22 kg]								
	280*B	280*C	280*D	280*G	280*K	280*M	280*P	280*S	280*T
Continuous Torque Rating (lbs-ft) [Nm]	300 [407]	390 [529]	390 [529]	360 [488]	340 [461]	318 [431]	290 [393]	265 [359]	240 [325]
HP Rating for Continuous Duty									
At 500 RPM of Output Shaft (HP) [Kw]	29 [21]	37 [28]	37 [28]	34 [26]	32 [24]	30 [23]	28 [21]	25 [19]	23 [17]
At 1000 RPM of Output Shaft (HP) [Kw]	57 [43]	74 [56]	74 [56]	69 [51]	65 [48]	61 [45]	55 [41]	50 [38]	46 [34]

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