

CHELSEA® 281 SERIES

Hydraulic PowerShift 10-Bolt PTO for Allison 3000/4000 Family Transmissions

The 281 Series PTO is evidence that Parker Chelsea is constantly investing in developing the world's greatest solutions to solve industry challenges. Chelsea's 281 Series features a ductile iron bearing cap which is 117% stronger than its predecessor. It features an o-ring sealing configuration between the housing and bearing cap to improve clamp load. The thickness of the steel discs within the clutch pack have also been increased by 80%. All of these improvements are focused on reducing the damaging vibrational effects caused by today's and future engine designs.

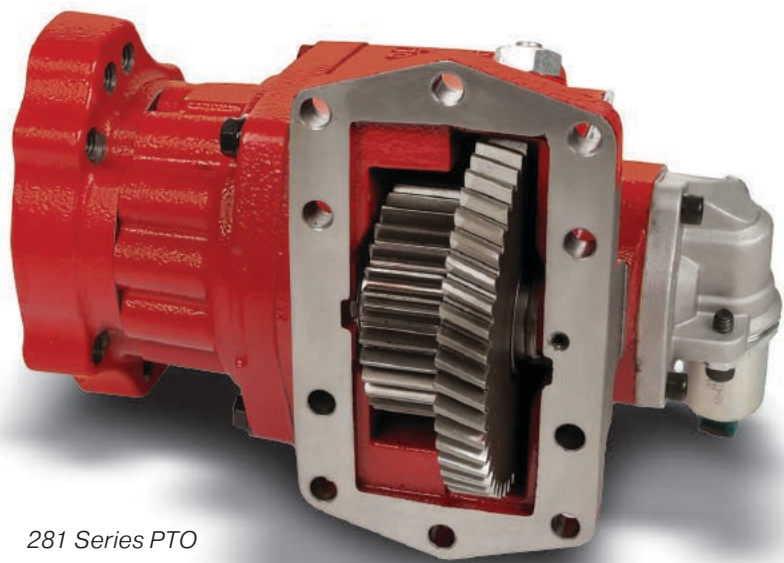
Over the years, Parker Chelsea has cultivated this PTO design into what it is today. With its improved durability, versatility, power, and ease of maintenance & installation, the 281 Series cannot be beat.

Applications:

- Fire and Rescue Trucks
- Truck Cranes
- Pumper Cleaner Trucks
- Refuse Trucks

Product Features and Benefits:

- Ductile Iron Bearing Cap – 117% stronger than gray iron.
- Improved Seal – O-ring sealing configuration to reduce vibrational effects and improve clamp load.
- Enhanced Clutch Pack – 80% thicker steel disks in the clutch pack to resist premature tooth wear.
- Torque – Single, continuous duty torque rating.
- Clearance – Rotatable cast iron flanges to improve pump clearance.
- Positive Stop for Driveline Outputs – Eliminates oil seal damage from coupling.
- Wet Spline Lubrication Option – Provides 7 to 10 times greater shaft life.
- Speeds – Nine speed ratios including low and high-speeds.
- SmartStart – Reduces shock load at start-up for certain applications.
- Insurance – Electronic Overspeed Control (EOC) protects driven equipment.

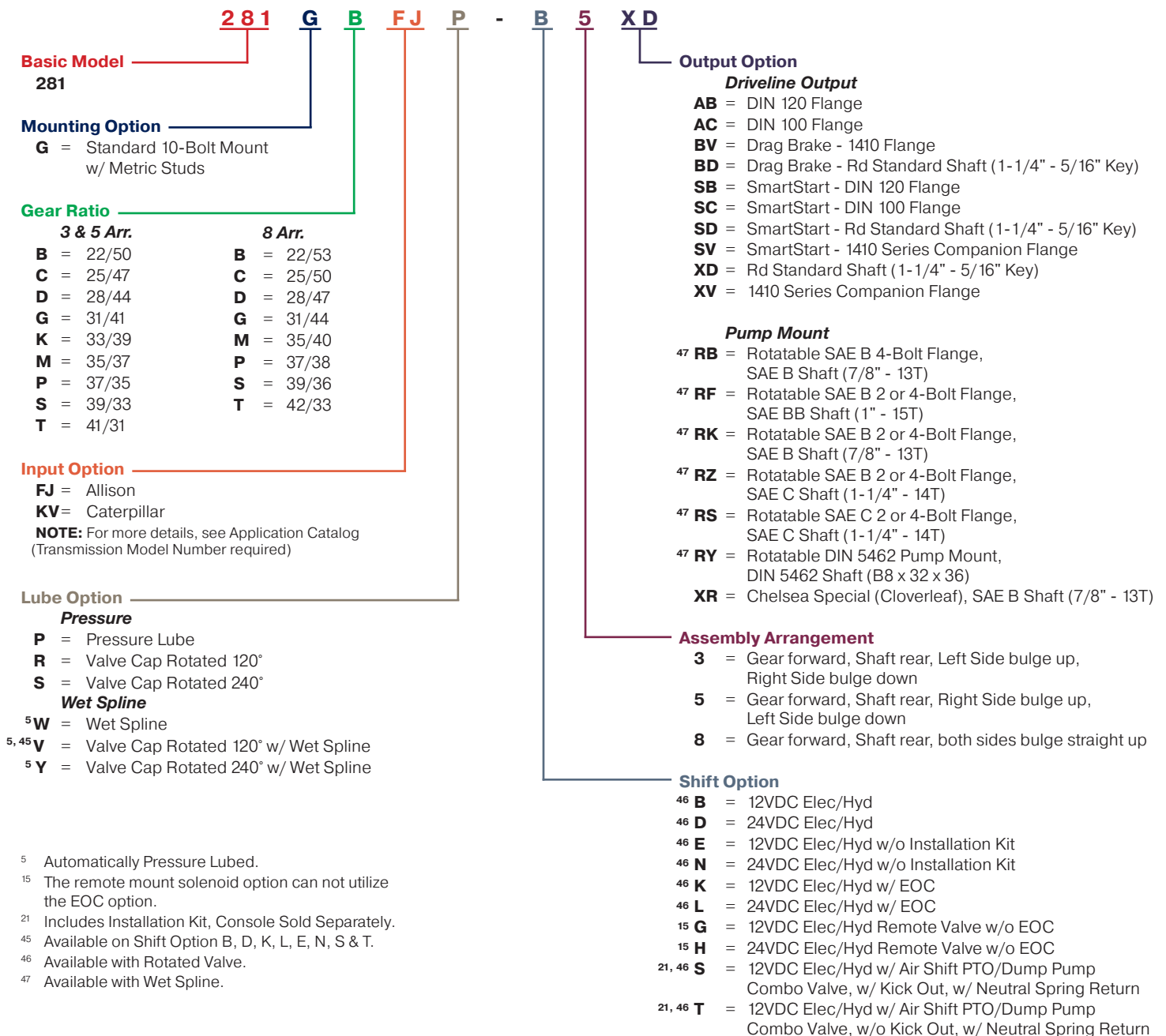


281 Series PTO



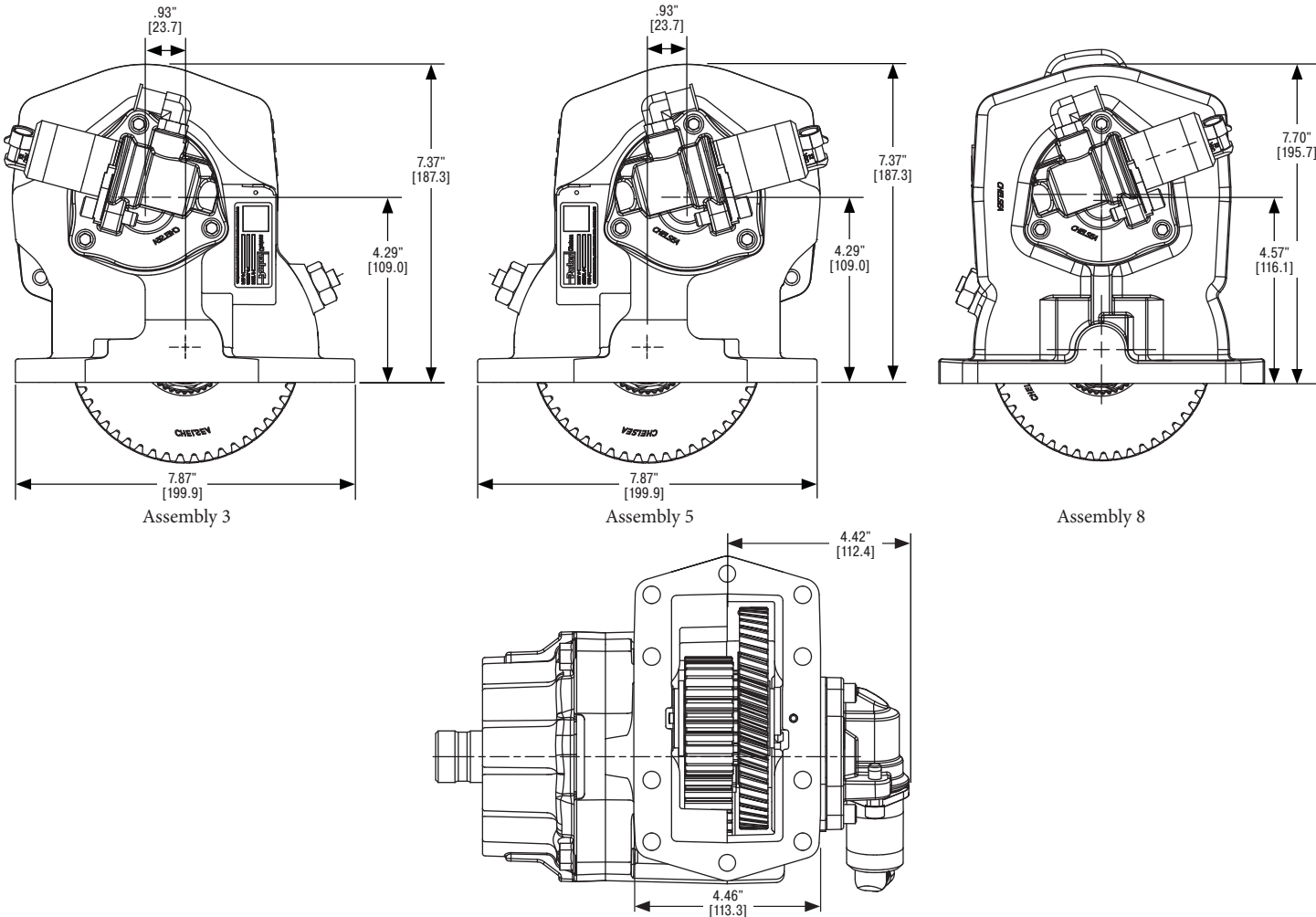
281 Series Power Take-Off

Model Number Designator & Specifications



281 Series Dimensions

For PTO output information see application catalog



Specifications Chart	Approximate Weight: 50 lbs. [22.7 kg]								
	281*B	281*C	281*D	281*G	281*K	281*M	281*P	281*S	281*T
Continuous Torque Rating (lb-ft) [N-m]	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 [22]	37 [28]	37 [28]	34 [25]	32 [24]	30 [22]	28 [21]	25 [19]	23 [17]
At 1000 RPM of Output Shaft (HP) [kW]	57 [43]	74 [55]	74 [55]	69 [51]	65 [48]	61 [45]	55 [41]	50 [37]	46 [34]

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Supersedes HY25-0208-B1/US September 2024 HY25-0208-B1/US January 2025

