

Chelsea® 287 Series

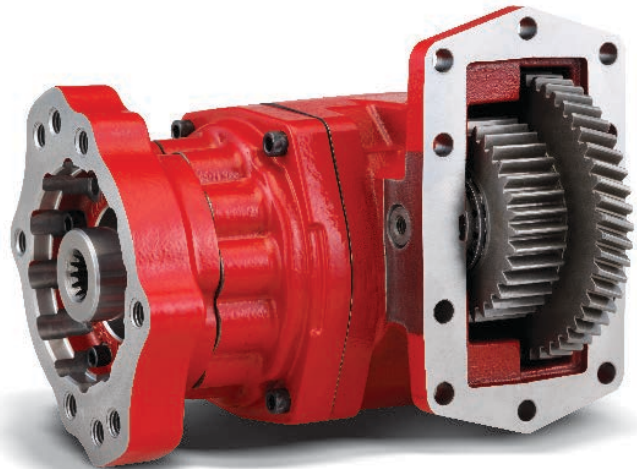
Constant Mesh 10-Bolt



Overview:

The 287 Series is a 10-Bolt constant mesh PTO design utilizing the best of our technology and innovations from our current Hot Shift PTOs. The 287 Series utilizes our wider gears and larger capacity bearing to provide 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 Pump Flange option provides 7 to 10 times greater shaft life. Our broad coverage of speed ranges expands to 9 ratios. The standard output shaft features a new positive stop for Driveline outputs that eliminates the ability for shaft couplings to damage oil seals. Three assembly arrangements provide maximum clearance under the truck. The pressure/lube hose will be included with the 287 Series - No need to order separately. Versatility, power, ease of maintenance, and installation make the 287 Series the best choice for your snow, vacuum, aerial and refuse truck requirements.

- Snow & Ice
- Vacuum
- Aerial
- Refuse



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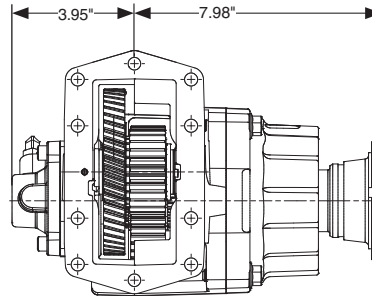
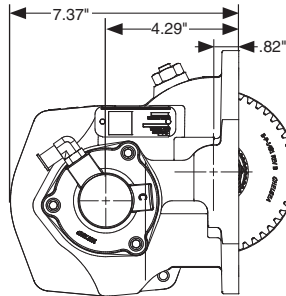
- **Torque** – Features a single continuous duty torque rating.
- **Constant Mesh** – Economical workhorse features a cast iron housing.
- **Clearance** – Interference issues have been reduced with rotatable cast iron flanges.
- **Positive Stop** – Driveline outputs; eliminates oil seal damage from coupling.
- **Protection** – Wet Spline Lubrication option provides 7 to 10 times greater shaft life.
- **Speeds** – Broader coverage of speed ratios expanded from 5 ratios to 9 ratios.
- **Hose Included** – No need to order separately.



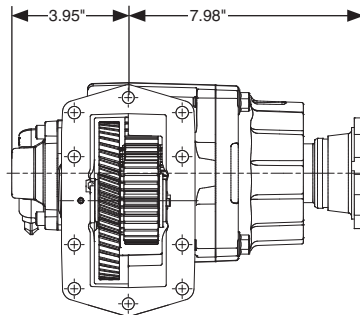
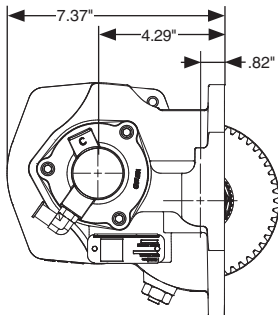
ENGINEERING YOUR SUCCESS.

287 SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA

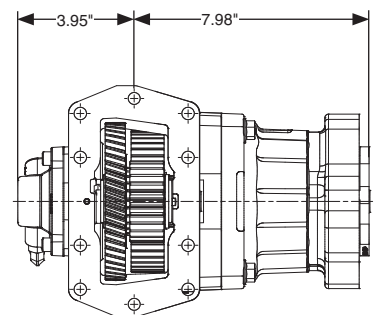
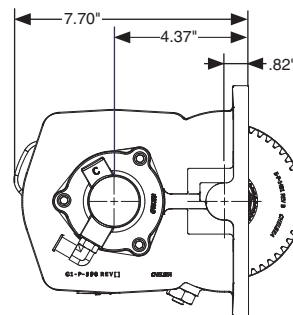
Basic Model 287		287	G	B	FJ	P	-	M	5	XV
Mounting Option G = Standard Mount w/ Metric Studs										
Gear Ratio										
3 & 5 Arr.										
8 Arr.										
B = 22/50										
C = 25/47										
D = 28/44										
G = 31/41										
K = 33/39										
M = 35/37										
P = 37/35										
S = 39/33										
T = 41/31										
Input Option FJ = Allison NOTE: For more details, see Application Catalog (Transmission Model Number required)										
Lube Option Pressure P = Pressure Lube R = Valve Body Rotated 120° S = Valve Body Rotated 240° Wet Spline 5 W = Wet Spline 5 V = Valve Body Rotated 120° w/ Wet Spline 5 Y = Valve Body Rotated 240° w/ Wet Spline										
Output Option Driveline Output XD = Rd Standard Shaft (1-1/4" - 5/16" Key) XV = 1410 Series Companion Flange AB = DIN 120 Flange AC = DIN 100 Flange Pump Mount 68 RB = Rotatable SAE B 4-Bolt Flange, SAE B Shaft (7/8" - 13T) 47 RK = Rotatable SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T) 47 RF = Rotatable SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T) 47 RZ = Rotatable SAE B 2 or 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T) 47 RS = Rotatable SAE C 2 or 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T) 47 RY = Rotatable ISO 7653 Pump Mount DIN 5462 Shaft										
Assembly Arrangement 3 = Right side - bulge down Left side - bulge up 5 = Left side - bulge down Right side - bulge up 8 = Both sides - no offset										
Shift Option M = Constant Mesh										



Assembly 3



Assembly 5



Assembly 8

Specifications Chart

Approximate Weight: 44 lbs. [20 kg]

	287*B	287*C	287*D	287*G	287*K	287*M	287*P	287*S	287*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]