

# Chelsea® 278 Series

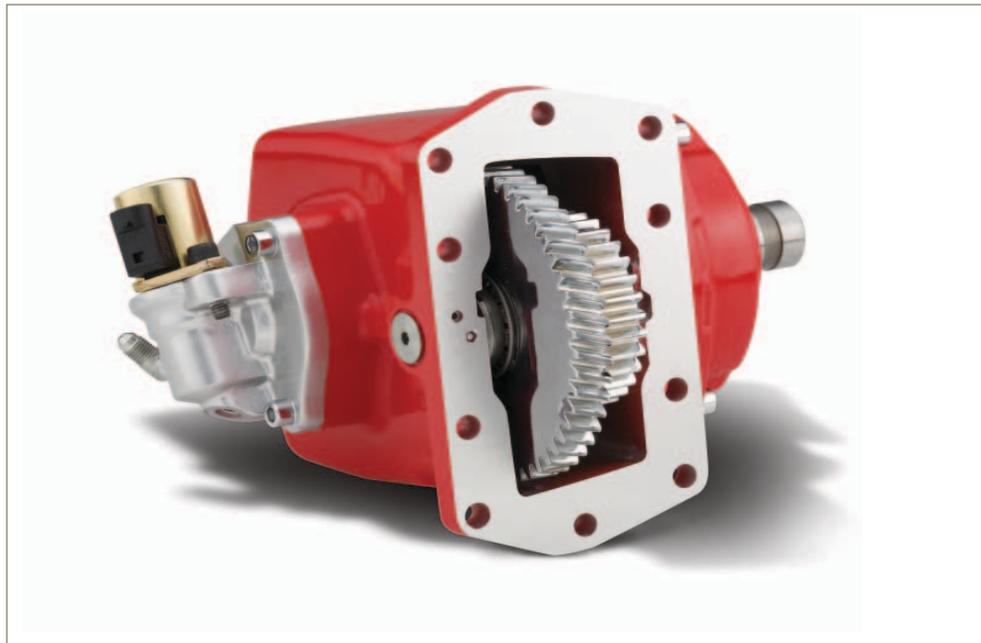
Available with the Shaft Brake Option



## Overview:

Quality knows quality, that's why Allison chose Chelsea to join their engineers in developing P.T.O.s specifically for the Allison World Transmissions. When maximum transmission clearance is needed to direct mount a pump, the 278 Series of P.T.O.s delivers with its enhanced housing design. These electronic-over-hydraulic shift P.T.O.s offer six speed ratios, numerous output options, and Chelsea's SuperTorque™ gears which supply 20% higher intermittent torque ratings. The 278 Series can also be counted on for longevity due to its internal bearing lube.

- Refuse
- Aerial
- Snow & Ice Removal
- Fire & Rescue



## Product Features and Benefits:

### Contact Information:

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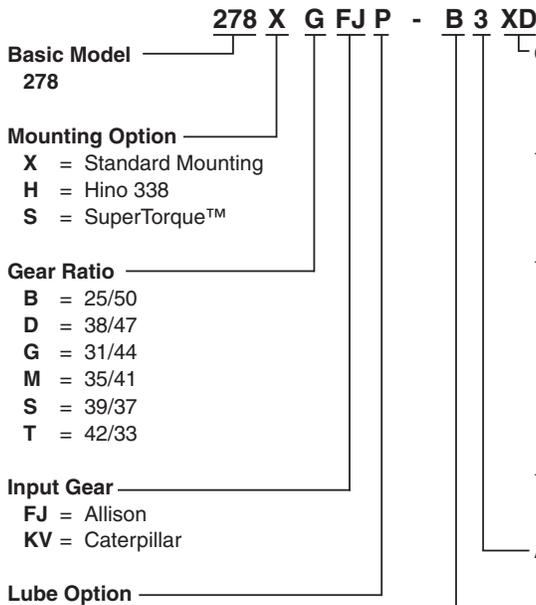
[www.parker.com/chelsea](http://www.parker.com/chelsea)

- Enhanced housing design for maximum transmission clearance when direct mounting a pump
- Six speed ratios and eighteen output options
- Combo Valve shift option available for P.T.O./Dump Pump systems
- Cartridge Valve Assembly for reduced interference
- SuperTorque™ gears available for 20% higher intermittent torque ratings
- Wet Spline Options Available
- Shaft Brake option (patent #7159701) available for product pump applications
- Industry First Rotatable Wet Spline



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# Model Number Designation



## Output Option

- XV** = Shaft, 10T Straight Spline w/3-1-3881 Flange
- XD** = 1.250" Rd Std. Shaft
- <sup>1</sup> **XK** = S.A.E. "B" 2/4-Bolt 7/8" - 13T
- XE** = S.A.E. "A" 2-Bolt .625" - 9T
- XP** = S.A.E. "A" 2-Bolt
- XR** = CHELSEA Special
- <sup>1</sup> **AF** = S.A.E. "BB" 2 or 4-Bolt 1" - 15T
- BA** = 1-1/4" Rd Shaft w/Self Adjusting Shaft Brake
- RA** = Rotatable S.A.E. "B" 2-Bolt
- RB** = Rotatable S.A.E. "B" 4-Bolt
- XY** = DIN 5462
- XX** = 1.250" Tapered
- RF** = Rotatable S.A.E. "B" 2-Bolt
- RG** = Rotatable S.A.E. "B" 4-Bolt
- PA** = S.A.E. "B" 2-Bolt w/Thru Holes, 7/8" - 13T (P2 Pump)
- PF** = S.A.E. 2-Bolt w/Thru Holes, 1.0" - 15T (P2 Pump)
- <sup>1</sup> **ZY** = DIN 5462 8T (shorter than XY output)
- <sup>1</sup> **RK** = Rotatable S.A.E. "B" 2/4-Bolt 7/8" - 13T
- <sup>1</sup> **RM** = Rotatable S.A.E. "B" 2/4-Bolt 1.0" - 15T
- G220** = RB flange w/G102-1-2.0R-4S-AS Pump

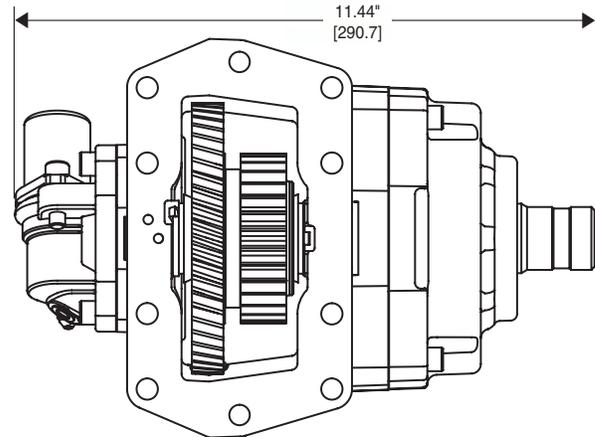
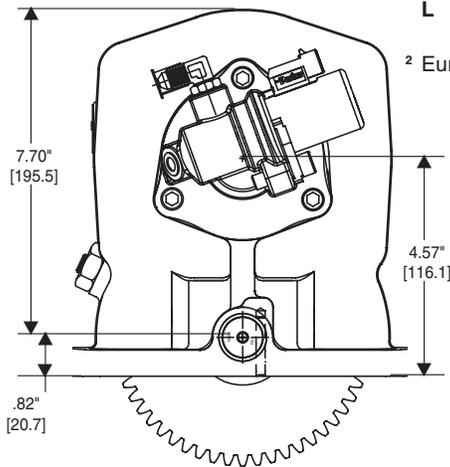
<sup>1</sup> Can be ordered with or without Wetspline

## Assembly Arrangement

\*3\* - Gear Forward, Shaft Rear, Output Shaft Centerline of P.T.O.

## Shift Option

- B** = 12V Hydraulic Valve
- D** = 24V Hydraulic Valve
- <sup>2</sup> **F** = 24V Remote Valve Kit 329392X
- G** = 12V Remote Valve w/o E.O.C.
- H** = 24V Remote Valve w/o E.O.C.
- K** = 12V Hydraulic Valve w/E.O.C.
- L** = 24V Hydraulic Valve w/E.O.C.
- <sup>2</sup> **M** = 12V Minus Installation Kit 329024-12X
- <sup>2</sup> **N** = 24V Minus Installation Kit 329024-24X
- S** = P.T.O./Dump Pump Combo Valve
- T** = P.T.O./Dump Pump Combo Valve less kickout



## Series Specifications Chart – 278 Series

	278*B	278*D	278*G	278*M	278*S	278*T	278SB	278SD	278SG	278SM	278SS	278ST
	SuperTorque™											
Standard Output Shaft Size							1-1/4" Round w/key					
Intermittent Torque Rating (Lbs. ft.)	335	325	300	265	250	225	402	390	360	318	265	240
Intermittent Torque Rating (N.m.)	454	441	407	359	339	305	545	529	488	431	359	325
Horsepower Rating for Intermittent Service												
At 500 R.P.M. of Output Shaft (HP)	32	31	29	25	24	21	38	37	34	30	25	23
At 1000 R.P.M. of Output Shaft (HP)	64	62	57	50	48	43	77	74	69	61	50	46
At 500 R.P.M. of Output Shaft (Kw)	24	23	21	19	18	16	29	28	26	23	19	17
At 1000 R.P.M. of Output Shaft (Kw)	48	46	43	38	36	32	57	56	51	45	38	34
Approximate Weight:	49 lbs. [22 kg]											

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Supersedes HY25-0086-B1/US April 2012 HY25-0086-B1/US April 2013



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