

# Chelsea® 890C Series

New Powershift P.T.O. for Allison 4000  
Transmissions with Integrated Oil Cooler



## Overview:

The 890C Series Power Take-Off (P.T.O.) is mounted between the transmission and the frame rail of the truck. It mounts like a standard side mounted P.T.O. with an additional bracket at the rear of the transmission. The 890C is designed to clear the integrated Oil cooler on the Allison 4000 series transmission. It places the output of the P.T.O. beyond the rear of the transmission where there is extra space. The 890C Series is a single unit, not a P.T.O. with an extension, the main shaft is one piece eliminating the input splines between the P.T.O. and the shaft extension. The clutch has been moved to the rear of the unit to allow the housing and gear section to tuck in tightly to the transmission. The output utilizes a wet spline which eliminates fretting problems.

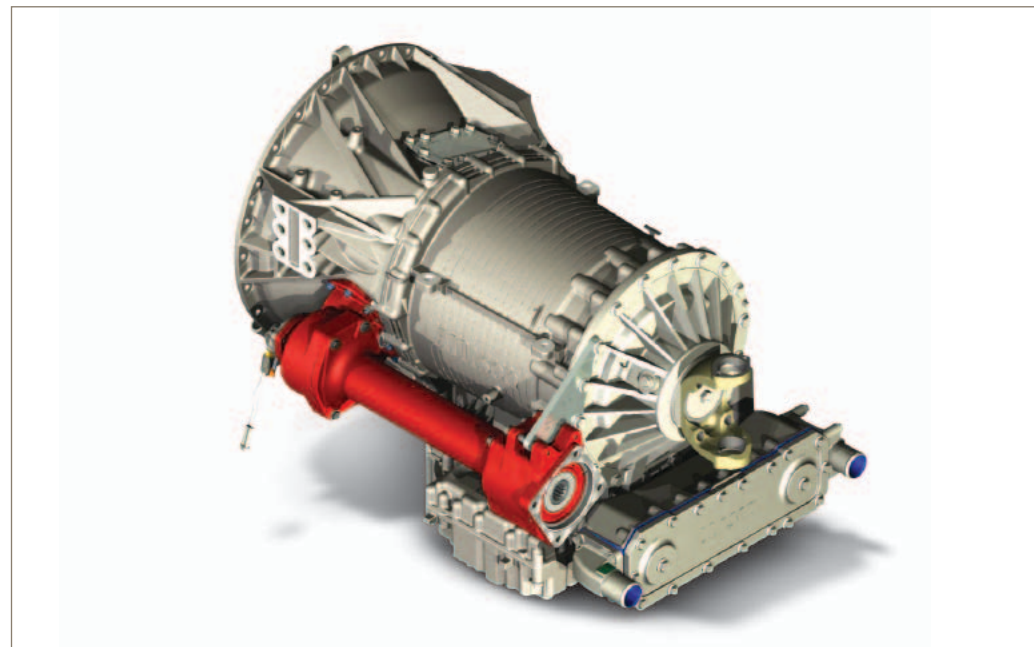
- Refuse
- Fire and Rescue
- Sewer Sanitation
- Aerial

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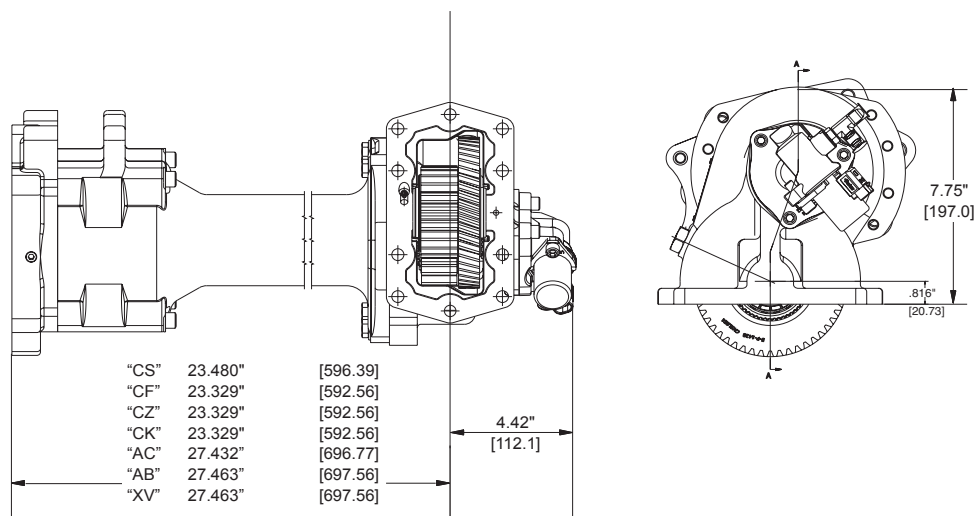
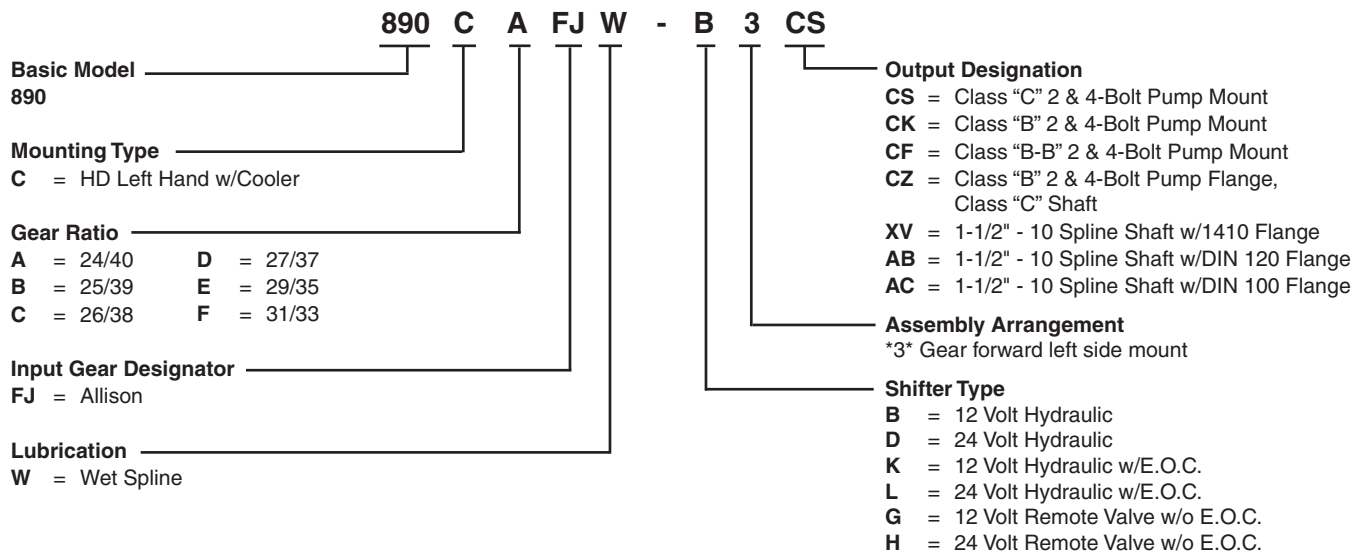
## Product Features and Benefits:

- **Moves the P.T.O. output flange to the rear of the transmission** - Allows larger pumps and in some cases it will eliminate the need for a drive shaft
- **Require less space than current P.T.O.s** - Will help clear frame rails etc.
- **Torque ratings up to 670 Lbs. ft.** - Allows the use of higher flow and pressure pumps
- **Multiple output ratios available** - Allows for more efficient systems
- **The 890C Series can be installed in 2 pieces** - One lighter P.T.O. housing and then the shaft
- **Single piece shaft** - Eliminates the splines at the housing end of the unit
- **Wet Spline outputs** - Extends shaft life. Eliminates the need to disassemble to frequently grease the splines
- **Patent Pending**



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## Model Number Designator



## Series Specifications Chart – 890C Series

	890*A	890*B	890*C	890*D	890*E	890*F
Standard Output Shaft Size	S.A.E. "C" ("CS") Output					
Continuous Torque Rating (Lbs. ft.)	670	630	590	550	485	430
Continuous Torque Rating (N.m.)	908	854	800	746	658	583
Horsepower Rating for Continuous Service						
At 500 R.P.M. of Output Shaft (HP)	64	60	56	52	46	41
At 1000 R.P.M. of Output Shaft (HP)	128	120	112	105	92	82
At 500 R.P.M. of Output Shaft (Kw)	48	45	42	39	35	31
At 1000 R.P.M. of Output Shaft (Kw)	95	90	84	78	69	61
Approximate Weight:	86 lbs. [39 kg]					
* Check Application Pages for Actual Torque Ratings						