

# Chelsea® 899 Series

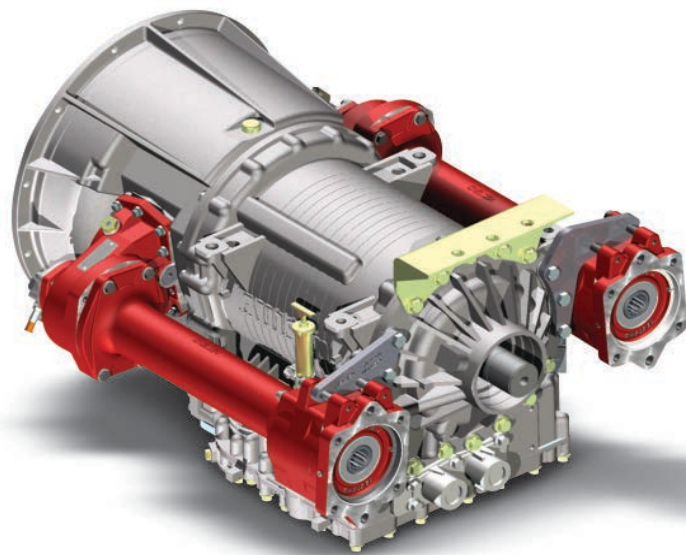
New Constant Mesh PTO for Allison  
4700 Transmissions



## Overview:

The 899 Series Power Take-Off (PTO) is mounted between the transmission and the frame rail of the truck. It mounts like a standard side mounted PTO with an additional bracket at the rear of the transmission. It places the output of the PTO beyond the rear of the transmission where there is extra space. The 899 Series is a single unit, not a PTO with an extension. The main shaft is one piece eliminating the input splines between the PTO and the shaft extension. The 899 is a constant mesh PTO and an excellent choice for variable displacement piston pumps. The output utilizes a wet spline which eliminates fretting problems.

- Refuse
- Fire & Rescue
- Sewer Sanitation
- Aerial
- Oil & Mining



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## Product Features and Benefits:

- **Pump Clearance** – Moves the PTO output flange to the rear of the transmission.
- **Compact** – Requires less space than current PTOs.
- **Power** – Torque ratings up to 670 lbs.-ft.
- **Ratio Choices** – Multiple output ratios available.
- **Ease of Installation** – Installed in two pieces.
- **Single piece shaft** – Solid steel shaft.
- **Wet Spline outputs** – Extends shaft life for Pump & PTO.
- **Constant Mesh**
- **Patent Pending**



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# 899 SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA

899 J E FJ W - M 5 XS

## Basic Model

899

## Mounting Option

X = Less Bracket & Hose Kit (5 Arr.)  
4700/4800 Family

C = HD Left Side w/Cooler (3 Arr.)  
J = HD Left Side w/Retarder (3 Arr.)  
H = HD Left Side (5 Arr.)  
K = HD Top Side w/Retarder (5 Arr.)  
P = HD Left Side w/Retarder (5 Arr.)  
U = HD Top Side (5 Arr.)

## Gear Ratio

A = 24/40  
B = 25/39  
C = 26/38  
D = 27/37  
E = 29/35  
F = 31/33

## Input Option

FJ

NOTE: For more details, see Application Catalog  
(Transmission Model Number required)

## Lube Option

Wet Spline

<sup>37</sup>W = Wet Spline

## Output Option

### 3 Assembly Arrangement

AC = DIN 100 Flange  
AB = DIN 120 Flange  
<sup>36</sup>CS = SAE C 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)  
ZS = SAE C 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)  
<sup>36</sup>CF = SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)  
<sup>36</sup>CK = SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)  
<sup>36</sup>CZ = SAE B 2 or 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)  
XY = ISO 7653 Pump Mount DIN 5462 Shaft  
XV = 1410 Series Companion Flange

### 5 Assembly Arrangement

AC = DIN 100 Flange  
AB = DIN 120 Flange  
ZS = SAE C 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)  
<sup>34</sup>DA = SAE D 4-Bolt Flange, SAE D Shaft (1-3/4" - 13T)  
<sup>35</sup>AF = SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)  
<sup>35</sup>AZ = SAE B 2 or 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)  
<sup>35</sup>XK = SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)  
<sup>35</sup>XS = SAE C 2 or 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)  
XY = ISO 7653 Pump Mount DIN 5462 Shaft  
XV = 1410 Series Companion Flange

## Assembly Arrangement

<sup>36</sup>3 = Right side - bulge down  
Left side - bulge up  
<sup>35</sup>5 = Left side - bulge down  
Right side - bulge up

## Shift Option

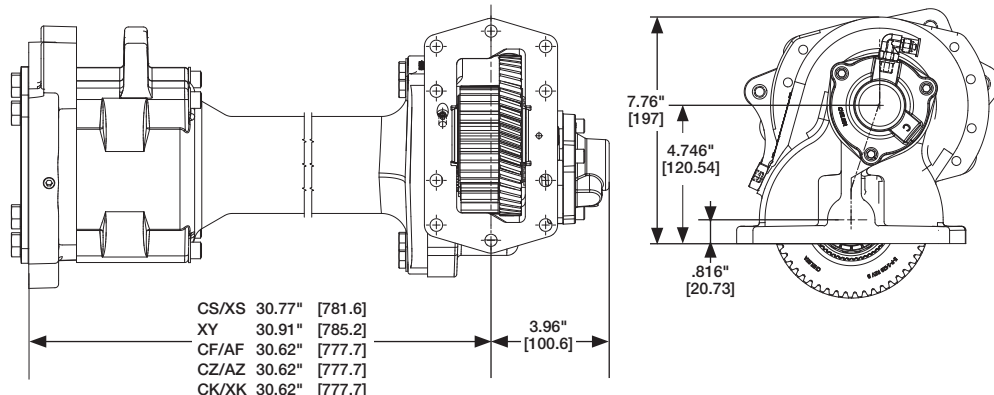
M = Constant Mesh

<sup>34</sup> DA output is not available for transmission with a retarder or cooler

<sup>35</sup> XS, XK, AF, AZ outputs only available with 5 ass'y arrangement

<sup>36</sup> CS, CK, CF, CZ outputs only available with 3 ass'y arrangement

<sup>37</sup> Automatically pressure lubed with Wet Spline



## Specifications Chart

Approximate Weight: 86 lbs. [39 kg]

|  | 899*A     | 899*B     | 899*C     | 899*D     | 899*E     | 899*F     |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Continuous Torque Rating (lbs-ft) [Nm] | 670 [908] | 630 [854] | 590 [800] | 550 [746] | 485 [658] | 430 [583] |
| HP Rating for Continuous Duty          |           |           |           |           |           |           |
| At 500 RPM of Output Shaft (HP) [Kw]   | 64 [48]   | 60 [45]   | 56 [42]   | 52 [39]   | 46 [35]   | 41 [31]   |
| At 1000 RPM of Output Shaft (HP) [Kw]  | 128 [95]  | 120 [90]  | 112 [84]  | 105 [78]  | 92 [69]   | 82 [61]   |

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