

Chelsea® 890 Series

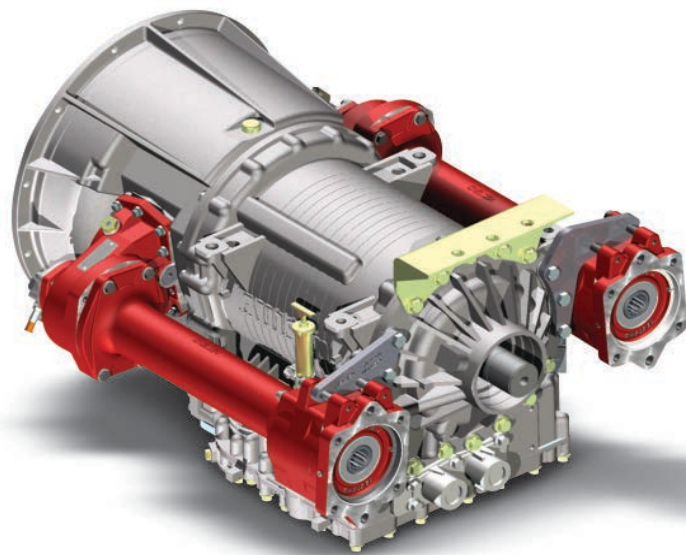
PowerShift PTO for Allison
3000/4000 Transmissions



Overview:

The 890 Series Power Take-Off (PTO) mounts like a standard side mounted PTO with an extended shaft and additional bracket at the rear of the transmission for greater pump support. It places the output of the PTO beyond the rear of the transmission where there is extra space. The 890 Series is a single unit, not a solid shaft PTO with an extension. The main shaft is one piece, eliminating the input splines between the PTO and the shaft extension. The clutch is located in the rear of the unit to allow the housing and gear section to tuck in tight to the transmission. The output utilizes Wet Spline Technology which virtually eliminates fretting issues.

- Fire & Rescue
- Pumper Cleaner
- Truck Cranes
- Refuse



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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 lb-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.

Patent Pending



ENGINEERING YOUR SUCCESS.

890 SERIES POWER TAKE-OFF SPECIFICATIONS AND TECHNICAL DATA

890 H A FJ W - B 5 XS

Basic Model

890

Mounting Option

X = Less Bracket & Hose Kit

3000/MD Family (Side/Side Openings)

L = Left Side (5 Arr.)

N = Left Side w/ Cooler (3 Arr.)

M = Left Side w/ Retarder (5 Arr.)

R = Right Side w/ or w/o Cooler (5 Arr.)

Y = Right Rotated CW (5 Arr.)

3000/MD Family (Side/Top Openings)

E = Left Side (5 Arr.)

F = Left Side w/ Retarder (5 Arr.)

T = Top Side w/ or w/o Cooler,
w/o Retarder (5 Arr.)

4000/HD Family

H = Left Side (5 Arr.)

C = Left Side w/ Cooler (3 Arr.)

P = Left Side w/ Retarder (5 Arr.)

J = Left Side w/ Retarder (3 Arr.)

U = Top Side (5 Arr.)

K = Top Side w/ Retarder (5 Arr.)

Gear Ratio

A = 24/40 **E** = 29/35

B = 25/39 **F** = 31/33

C = 26/38 ^{1,6} **G** = 33/31

D = 27/37 ^{1,6} **H** = 34/30

Input Option

FJ = Allison

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

Lube Option

Wet Spline

⁵ **W** = Wet Spline

Output Option

All Assembly Arrangements

AB = DIN 120 Flange

AC = DIN 100 Flange

XV = 1410 Series Companion Flange

XY = ISO 7653 Pump Mounting DIN 5462 Shaft

ZS = SAE C 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)

3 Assembly Arrangement Only

CF = SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)

CK = SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)

CS = SAE C 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)

CZ = SAE B 2 or 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)

5 Assembly Arrangement Only

AF = SAE B 2 or 4-Bolt Flange, SAE BB Shaft (1" - 15T)

AS = SAE C 2 or 4-Bolt Flange, ISO 3019 Shaft (1 3/8" - 21T)

AZ = SAE B 2 or 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)

² **DA** = SAE D 4-Bolt Flange, SAE D Shaft (1-3/4" - 13T)

XK = SAE B 2 or 4-Bolt Flange, SAE B Shaft (7/8" - 13T)

XS = SAE C 2 or 4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)

Assembly Arrangement

3 = Right side - bulge down
Left side - bulge up

5 = Left side - bulge down
Right side - bulge up

Shift Option

B = 12V Elec/Hyd

D = 24V Elec/Hyd

K = 12V Elec/Hyd w/ EOC

L = 24V Elec/Hyd w/ EOC

G = 12V Elec/Hyd w/o EOC - Remote Valve

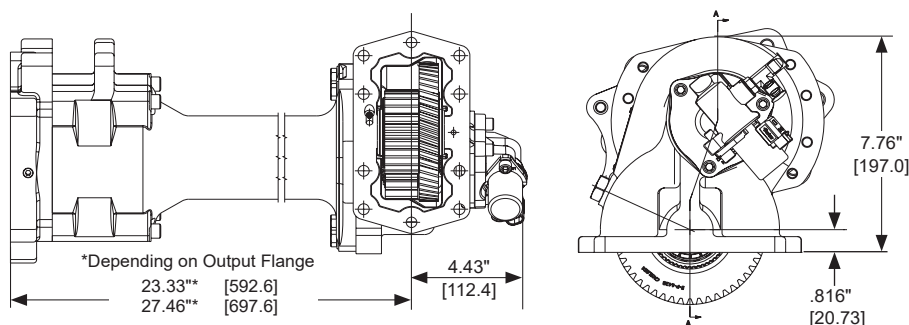
H = 24V Elec/Hyd w/o EOC - Remote Valve

¹ G & H ratio for Allison MD only

² DA output is not available for transmission with a retarder or cooler

⁵ Automatically Pressure lubed with wet spline

⁶ For HD requires Engineering Approval



Specifications Chart

Approximate Weight: 97 lbs. [44 kg]

	890*A	890*B	890*C	890*D	890*E	890*F	890*G	890*H
Continuous Torque Rating (lb-ft) [Nm]	670 [908]	630 [854]	590 [800]	550 [746]	485 [658]	430 [583]	380 [515]	355 [481]
HP Rating for Intermittent & Continuous Duty								
At 500 RPM of Output Shaft (HP) [Kw]	64 [48]	60 [45]	56 [42]	52 [39]	46 [35]	41 [31]	36 [27]	34 [25]
At 1000 RPM of Output Shaft (HP) [Kw]	128 [95]	120 [90]	112 [84]	105 [78]	92 [69]	82 [61]	72 [53]	68 [50]