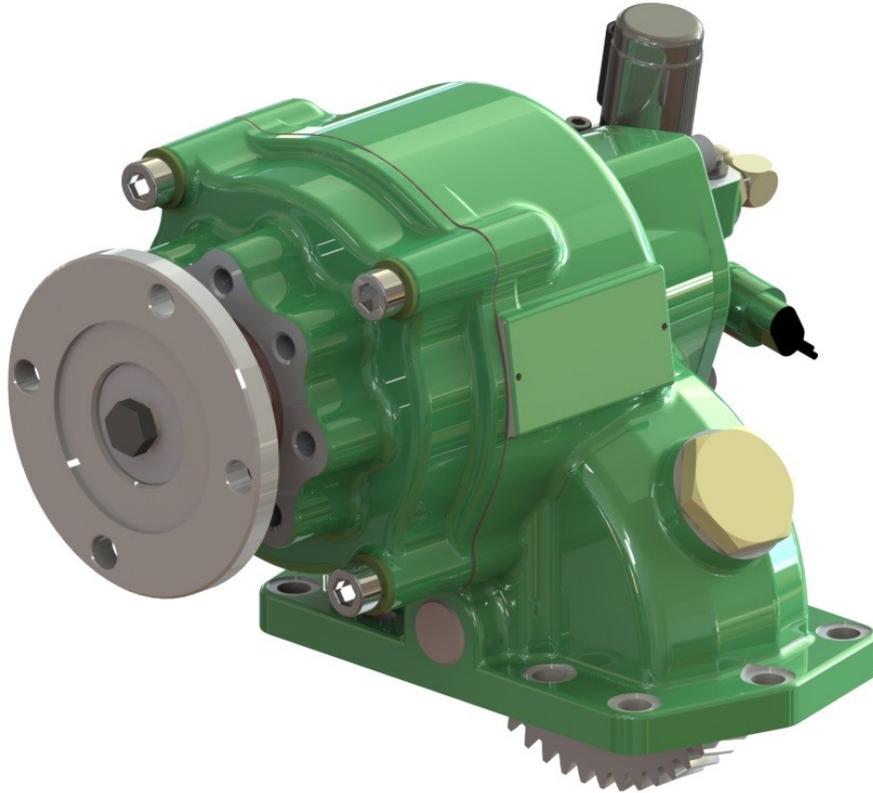


# Technical Data Sheet



## PA4100 SERIES POWER TAKE-OFF

### Low Ratio, Heavy Duty Side Mounted Hotshift PTO

The 4100 series is a truck mountable constant mesh hotshift PTO, actuated electrically by 12 or 24V, designed to suit 10 bolt transmission openings on the MD and HD series Allison automatic transmissions fitted to trucks with gross vehicle weights greater than 3.5T.

It's perfect for vehicles with a narrow chassis e.g. HINO, Isuzu, with it's new compact housing design.

Suits:

Allison MD 3050P, 3060P, 3070PT, 3550P, 3560P,  
HD 4060P, 4560P series transmissions.

(Refer to the eGuide Configurator on [www.hydreco.com](http://www.hydreco.com) for confirmation and details)

## Product Features

- **Output Speeds 79 to 174% of Engine Speed (Transmission Dependant)**  
To suit the output speed and torque requirements in all applications.
- **Large Range of Outputs**  
For flexibility in applications.
- **Viton Seals and O-Rings**  
For use in high temperature conditions.
- **“One Gasket, One Hose” Fitting**  
Simple to install, resulting in lower setup costs.
- **Low Profile**  
Providing easier installation on narrower chassis’.
- **Internal Clutch Hot Shift System**  
Ideal for applications with frequent PTO engagements.

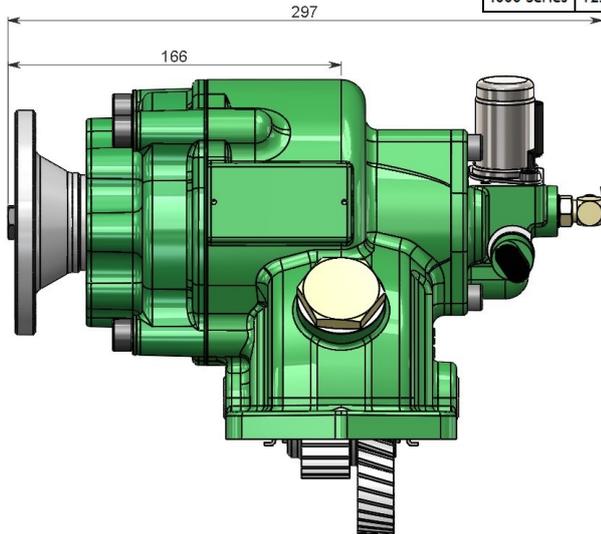
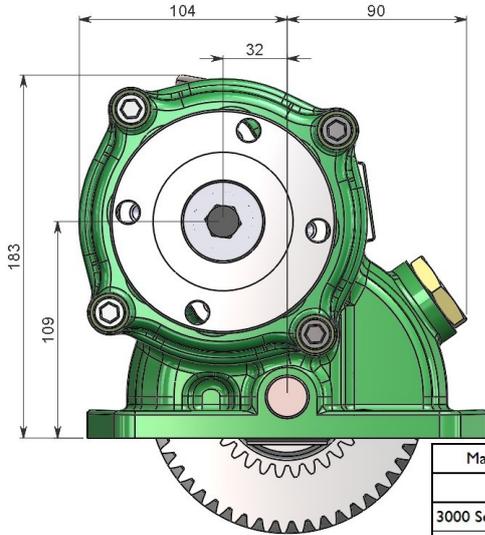


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# Technical Data Sheet



| Mains Pressure During Normal Operation |                    |                    |
|--|--------------------|--------------------|
|  | Minimum            | Maximum            |
| 3000 Series                            | 12.4 Bar (180 psi) | 22 Bar (320 psi)   |
| 4000 Series                            | 12.4 Bar (180 psi) | 20.5 Bar (298 psi) |

## PTO DESIGNATION CODES

4100 Series

PA 4104 JB L11 F 13 T

### Identifier

PA = PTO Side Mount

### PTO Series

4100

### Ratio (3000 / 3000T / 4000)

01 = 78.1% / 95.4% / 111.5%  
 04 = 92.7% / 113.1% / 132.3%  
 06 = 103.6% / 126.5% / 147.8%  
 09 = 122.1% / 149.0% / 174.1%

### Gear Type

JB

### Build

L1 = Left side of transmission, Bias to bottom  
 R2 = Right side of transmission, Bias to top  
 I = Centre to front  
 (Position of gear in transmission)

### Engagement Type

F = Electric / Hydraulic 12V  
 G = Electric / Hydraulic 24V  
 J = Hydraulic - Ready for remotely mounted control kit  
 L = J + 12V Control Kit (CK182C)  
 M = J + 24V Control Kit (CK182D)

### Output Type

08 = 8T Powauto Hydraulic Spline  
 10 = 14T 12/24 30° Spline + 1310 Flange  
 11 = 14T 12/24 30° Spline + 1410 Flange  
 13 = 13T SAE B Hydraulic Spline + SAE B Pump Mount  
 23 = 8T Ø36 DIN 5462 Spline - Female and DIN Mount  
 Other outputs available on request, subject to MOQ.

### Manufacturers Code

T = With Pressure Switch, Mounting Kit & Looms

| Technical Specifications                     |            | for Allison Transmissions         |             |             |             |
|--|------------|-----------------------------------|-------------|-------------|-------------|
| Ratings & Service Parts                      |            | PA4101                            | PA4104      | PA4106      | PA4109      |
| Ratio for 3000 Series (Left & Right Opening) |            | 78.1%                             | 92.7%       | 103.6%      | 122.1%      |
| Ratio for 3000 Series (Top & Side Opening)   |            | 95.4%                             | 113.1%      | 126.5%      | 149.0%      |
| Ratio for 4000 Series                        |            | 111.5%                            | 132.3%      | 147.8%      | 174.1%      |
| Torque                                       | Nm / ft.lb | 470 / 347                         | 470 / 347   | 450 / 332   | 417 / 308   |
| Power @ 500 rpm                              | kW / hp    | 24.6 / 33.0                       | 24.6 / 33.0 | 23.6 / 31.6 | 21.8 / 29.3 |
| Power @ 1000 rpm                             | kW / hp    | 49.2 / 66.0                       | 49.2 / 66.0 | 47.1 / 63.2 | 43.7 / 58.6 |
| Output Shaft Rotation                        |            | Same As Engine                    |             |             |             |
| Approximate Bare Mass                        | kg / lb    | 19.0 / 41.8                       |             |             |             |
| Mounting Kit                                 |            | MK1163                            |             |             |             |
| Mounting Gasket Kit                          |            | GK023                             |             |             |             |
| Seal Kit                                     |            | SK119 or SK119A (for Mech Output) |             |             |             |
| Bearing Kit                                  |            | BK119 or BK119A (for Mech Output) |             |             |             |

**Note:** The pressure switch connection is dependent on truck make and model.

**Note:** For full details refer to the owners manual or the eGuide configurator found at [www.hydreco.com/markets/transport](http://www.hydreco.com/markets/transport)

Doc: PA4100—02/24



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