



'422' Electric hybrid Vehicle Gearbox

Integrating a reduction gear set and differential, this electric drive transaxle has been developed in conjunction with Azure Dynamics to package within the constraints of front wheel drive and low floor layouts. Able to transmit torque in both directions, the transaxle has been designed to drive Electric and Hybrid Electric vehicles of up to 4,500 kg. A modular family of electric drive motors providing up to 260NM of torque connect to the transaxle utilizing common input shafts and mounting points.

The majority of the transaxle incorporates carry over components from large volume OEM applications to meet cost and reliability targets. A range of ratios up to 12.5:1 is available for the transaxle.

The transaxle is able to operate in a broad range of mounting positions with a high degree of freedom of orientation in Y and Z axis. A parking pawl option is also available with the transaxle if required.

Specification

- Single reduction ratio of 12.5:1
- Maximum input torque = 260Nm
- Maximum input speed = 12000 rpm
- Torque can be transmitted in either direction
- Integrated open differential
- Standard automotive output flanges
- Suitable for vehicle GVW of up to 4500kg
- Optional parking pawl conforming to SAE J2208
- OEM transmission selection switch
- Aluminum case

Benefits

- Low package volume – suitable for low floor and FWD applications
- High degree of freedom of orientation
- Range of ratios available
- Cost optimized utilizing proven OEM volume components.
- Integrates with a modular range of electric motors of varying performance outputs
- Drive selection sensing capability from integrated OEM selector sensor.
- Optional parking pawl designed to meet SAE specifications.



Why choose Xtrac?

Quality

- Strict quality assurance procedures are carried out at every stage of manufacture.
- Steels manufactured to Xtrac's own specifications.
- Every unit dynamically test run prior to dispatch.

Performance

- Xtrac's advanced engineering solutions keep our customers ahead of the competition.
- Xtrac's in-house manufacture provides rapid response.
- Our processes and procedures are continually monitored and evolved to increase efficiency.

Reliability

To finish first, first you have to finish... Xtrac's track record speaks for itself:

- 24 Formula One World Championships
- 20 CART Championships
- 14 Indy 500 Victories
- 20 Touring Car Championships
- 22 World Rally Championships
- 8 Le Mans/Daytona 24 Hour Victories
- 12 Dakar Rally Victories
- 5 NHRA Drag Racing Championships
- 7 AMA MX/SX Championships

Further information is available on this product from:

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