



'345' Longitudinal Sportscar Gearbox

This sports car racing gearbox was developed in 2003 from our successful '295' Indy Racing League (IRL) gearbox to suit cars running in the GTS category or similar specification.

Drive is fed directly into the ratio gears and out of the Mainshaft in to a train of two pairs of drop gears and then into the 11:31 CWP. Gear changes are performed using Xtrac's, positive and reliable sequential gearchange mechanisms.

Specification

- 800Nm (590lbf ft) maximum engine input torque.*
- 6 Speed sequential gear selection.
- 1st and 2nd Layshaft gears are integral, 3rd to 6th are slide on.
- Straight cut, non-synchromesh gears.
- Differential is the Xtrac Viscous Combined Plate (VCP) with a choice of settings.
- Hard cut Klingelnberg bevel set.
- Xtrac manufactured Output flanges are included to suit GI 87 size Tripode joints.
- Gearbox casing material is Aluminium L169 and all casting joint faces have 'O'-Ring seals.
- Straight cut gear ground Drop Gears.
- Clutch shaft to suit customer installation is included.
- Lubrication is via single stage lubrication pump.
- Most components are manufactured in Xtrac's own grade of steel (X36C). Bevel sets, final drives and pinions are manufactured in Xtrac's vacuum melted steel (XVAR1), using the post heat treatment gear grinding or hard cutting process for greater accuracy and longer life. Highly stressed components are shot peened.
- Gearbox weight 73-79Kg.*

The gearbox offers the following benefits

- Light, positive sequential gearchange.
- Easy ratio change.
- Cost effective, reliable solution.

Options Summary

- Gear ground and super polished ratios (Xtrem Process) are available if required.
- A wide selection of ratios and drop gears are available.
- Gearchange potentiometer, mounting and display.
- Magnesium RZ5 casings.
- Twin stage lubrication pump kit.
- Plate only differential.



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 evolve 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
- 9 Indy 500 Victories
- 20 British Touring Car Championships
- 17 World Rally Championships
- 7 Le Mans/Daytona 24 Hour Victories
- 10 Dakar Rally Victories
- 3 NHRA Drag Racing Championships
- 4 AMA MX/SX Championships

Further information is available on this product from:

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