



## '229' Transverse Rear Mounted Sequential Sports Car Gearbox

This gearbox is designed and manufactured for Sports Car applications. It is a customer specification transverse gearbox, based on one of Xtrac's successful Le Mans winning gearbox designs.

The project involved the design, manufacture and assembly of a rear mounted, transverse gearbox. The resultant design allows gear cluster changes without disassembly of the rear of the car. Gear changes are performed using Xtrac's, positive and reliable sequential gearchange mechanisms.

Xtrac's legendary record for reliability and performance was built on multiple winning Le Mans record from products like this.

### Specification

- 800Nm (590lbf ft) maximum engine input torque.\*
- 1st and 2nd Layshaft gears are integral, 3rd to 6th are slide on. With a wide range of available ratios.
- Gearbox casing material is Magnesium RZ5 and all casting joint faces have 'O'-Ring seals.
- Differential is the Xtrac Viscous Combined Plate (VCP) with a choice of settings.
- Straight cut gear ground final drive 16:42, 17:41, 14:50 and 12:50 are available as standard.
- Hard cut Klingelnberg bevel set.
- Xtrac manufactured Output flanges are included to suit GI 87 size Tripode joints.
- Lubrication is via twin stage lubrication pump (one scavenge, one pressure).
- 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.
- Weight 72-76Kg (159-167lb)\* spec dependent.

### The gearbox offers the following benefits

- Light, positive sequential gearchange.
- Quick change gear ratios.
- Cost effective, reliable solution.

### Options Summary

- Wide gear cluster option available.
- Gear ground and super polished ratios (Xtrem Process) are available.
- Pneumatic Shifter Cylinder.
- H-Pattern Version also available.



### 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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