

633 RALLY GEARBOX

Xtrac's '633' 4WD transmission has been designed specifically to cater for Rally cars competing under the FIA WRC & Super 2000 regulations, in series such as the Intercontinental Rally Challenge (IRC) and WRC championship WRC & S-WRC.

The gearbox specification meets all the requirements of the FIA S2000 / WRC homologation regulations and has been approved for use in S2000 / WRC championships by the FIA. To meet the FIA's requirements Xtrac has achieved the lowest possible costs, whilst ensuring a technically reliable and lightweight transmission solution built to its normal industry-leading quality standard.

SPECIFICATION

- 6 speed sequential
- 450Nm (330lbf ft) maximum engine input torque*
- Cast aluminium L169 casings
- Adjustable mechanical type plate front differential
- 50:50 fixed front/rear torque split.
- Gearbox rear drive output shaft positioned for optimum vehicle and transmission package
- Integrated oil system using an eccentric rotor pump
- Dedicated gear change potentiometer, oil temperature & pressure and final drive speed sensor mountings
- Provision for individual wheel speed sensor mountings
- AP Racing clutch release
- Gearbox weight approximately 55kg

GEARBOX BENEFITS

- Light, positive sequential gear change
- Optimised cluster to provide near instantaneous gear change
- Easily removable cluster for ratio changes
- Differential with externally adjustable pre load
- Easily accessible oil filter cartridge
- Designed for optimised drive shaft angularity
- Cost effective, reliable, lightweight solution

OPTIONS SUMMARY

- Various driveline options
- Prop shaft flanges to suit specific requirements
- Various output flange options including AAR integral and plug in types. Integral speed sensor trigger as required.
- Dog ring inspection ports.
- Various options for reverse gear interlock
- Bespoke gearbox casing design to include bell housing mountings, starter motor mountings and other installation specific requirements
- Epicyclic or spur gear type final drive
- Integrated oil system cooling
- Starter motor
- Flywheel

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*Approximate only, see Notes Document for details.

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WHY CHOOSE XTRAC?

The value of Xtrac's competitive advantage is well recognised by the champions and one make series who already rely on their expertise, in addition to individual teams running on modest budgets. Success is summarised by Xtrac's watchwords:

QUALITY

To maintain their position as the leading supplier of high performance transmissions, Xtrac operate a continuous re-investment policy.

PERFORMANCE

Supplying championships such as IRL, BTCC, GRAND-AM, FIA Super 2000, Formula Le Mans and most recently, Brazilian Stockcar and Argentina's TC2000, Xtrac's track record speaks for itself.

RELIABILITY

Xtrac's advanced engineering solutions keep their customers ahead of the competition in the most grueling endurance events – from Dakar to Daytona and from Monte Carlo to Le Mans – all the way to the chequered flag.



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