

295 INDY RACING LEAGUE GEARBOX



The '295' Gearbox is Xtrac's second generation of Indy Racing League Transmission, continuing the line of Quality, Performance and Reliability that are Xtrac's hallmarks. Compared to the first generation, the cluster has been moved forward 14" placing it under the axle centerline, but still carried over 70% of parts from its predecessor. This helps improve safety by reducing the inertia of the vehicle in a spin also allowing a large crash structure to be added to help absorb the energy from rear end impacts.

Drive is fed from the engine directly to the gearchange cluster and on to two pairs of drop gears, which in turn drive a Hard cut Klingelnberg bevel set. In standard configuration the bevel drives a lightweight spool with integral output flanges and a differential is available for use on Road Courses. Gear changes are performed using Xtrac's, positive and reliable sequential gearchange mechanism.

Xtrac's legendary record for reliability and performance is built by products like this, which have won multiple Indy 500 victories, in fact every '500' since 2000.

SPECIFICATION

- 650Nm maximum engine input torque.*
- 6 Speed sequential dog gear selection.
- Integral 1st gear Layshaft, 2nd to 6th are slide on.
- Straight cut, non-synchromesh gears.
- Gearbox casing material is Aluminium L169 and all casting joint faces have 'O'-Ring seals.
- Hard cut Klingelnberg bevel set.
- Lubrication is via single stage lubrication pump.
- Gearbox weight 70Kg (154lb).*

BENEFITS

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

OPTIONS SUMMARY

- Narrow Gear Ground and super polished ratios.
- Xtrem Process available on all components if desired.
- Road Course Differential unit with a choice of ramp angles, plate and preload settings.
- A wide selection of ratios and drop gears are available.
- Reverse gear optional assembly.
- Viscous combined Plate Differential (VCP)
- Twin stage lubrication pump.
- Gearchange potentiometer, mounting and display.
- Bellhousing to suit specific engine
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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 summarized 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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*Approximate only, see Notes Document for details.
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