

RANGE
4WD
4 WHEEL DRIVE



 **ST4-917**
TRANSVERSE

SADEV
RACING TRANSMISSION

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4WD
4 WHEEL DRIVE

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Specially designed for rallycross, the **ST4-917**, an alternative to traditional longitudinal gearboxes, opens new possibilities for Supercar design. The **ST4-917** adapts to the most powerful engines and offers a revolutionary cost/performance/weight ratio.

APPLICATIONS

- › Circuit
- › Hill Climb
- › Drift
- › Rallycross
- › Rally



TECHNICAL SPECS

6 speed sequential gearbox + 1 reverse gear

Manual sequential gear selection

Front to rear bevel gear ratio : 26x22

Final drive ratio : 25x39

Epicyclic geartrain ratio : 2,778

The bevel gear is cut and grinded in house on our CNC units

Wide range of ratios available

Straight cut gears

Dog ring gear engagement

Interchangeable gear ratios

High strength carburizing steel

Gear teeth grinded with optimized profile

Shot penning on internal parts

Specific input shaft

Low friction limited slip differential

Ramp and plate system - 3 discs type

External preload adjustment

Wide range of ramp plates available

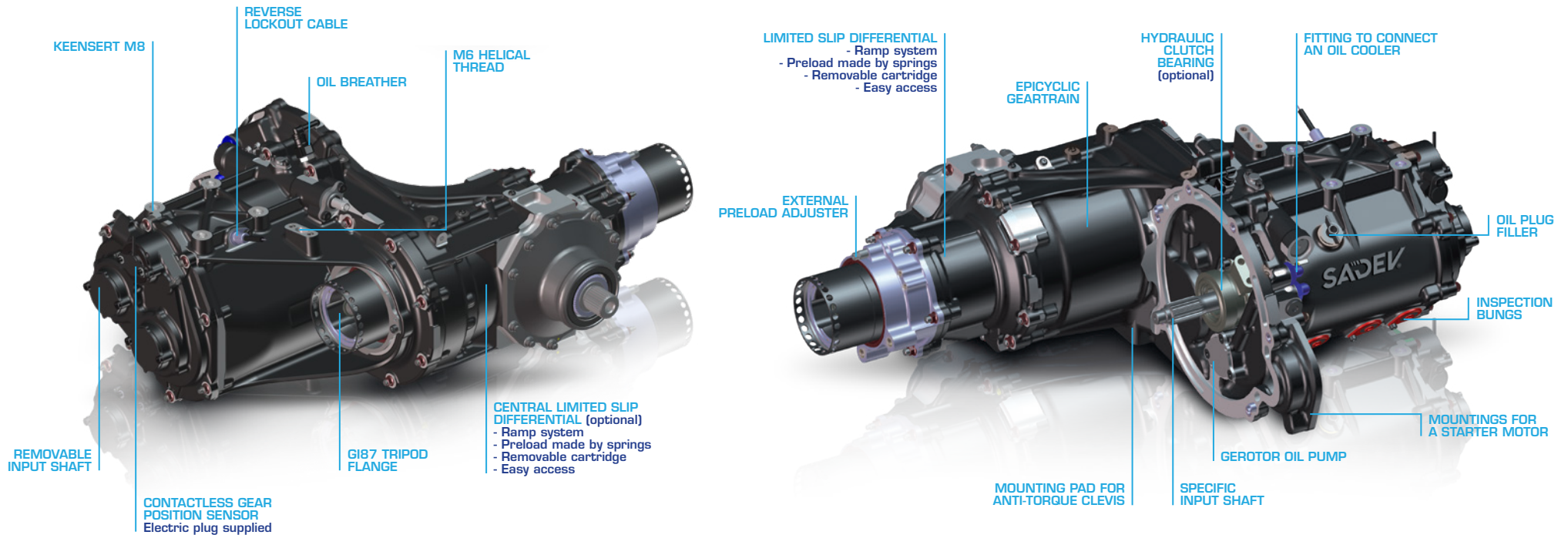
Reverse lockout cable or option of solenoid

Directed and pressurised lubrication on the gears and bevel gear

Oil suction screen

Magnetic drain plugs

Weight (input shaft included) : 59 kg - 130 lbs

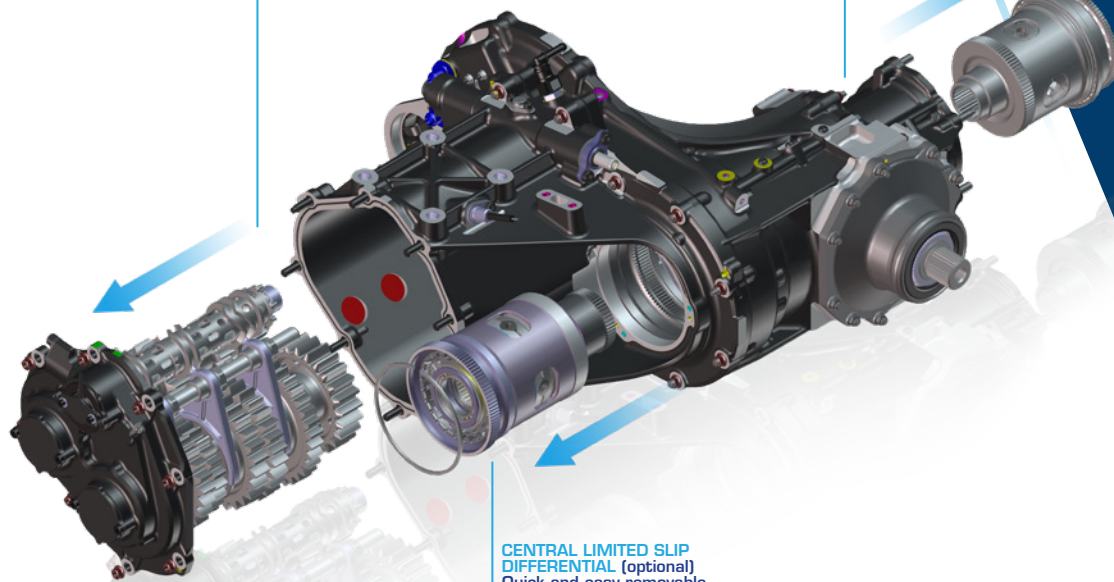


ACCESSORIES

- › *Bell housing*
- › *Starter crownwheel*
- › *Drive shafts*
- › *Propshaft*

**EXTERNAL PRELOAD ADJUSTMENT
LIMITED SLIP DIFFERENTIAL**
Quick and easy removable
low friction front differential

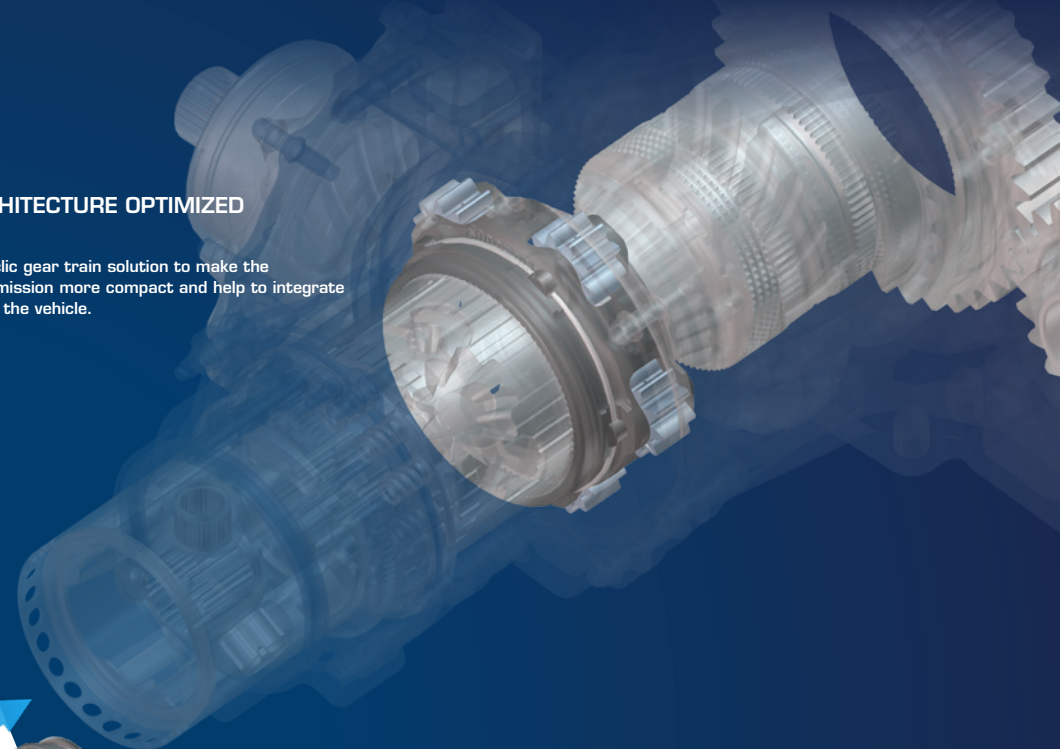
GEARS CLUSTER
Geartrains attached to a
single plate, to help the
extraction of it



**CENTRAL LIMITED SLIP
DIFFERENTIAL (optional)**
Quick and easy removable
central differential cartridge

ARCHITECTURE OPTIMIZED

Epicyclic gear train solution to make the transmission more compact and help to integrate it into the vehicle.



ADVANCED GEAR SELECTING SYSTEM (OPTIONAL)

Lightweight fork providing oil passage for
lubrication directed to gear ratios

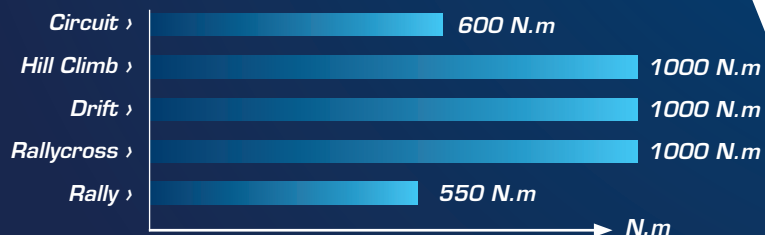




ST4-917 TRANSVERSE

- › **Experience:** The **ST4-917** incorporates all the latest technologies and the experience gained in rallycross with our previous product, the **ST90-18**.
- › **Gears:** The **ST4-917** benefits from optimised and strengthened gear tooth profiles for maximum efficiency.
- › **Ratio selection:** Optimised clutch and control shaft definition for smoother gear shifting.
- › **Architecture:** The integration of an epicyclic geartrain makes the gearbox stronger and more compact.
- › **Front differential:** The **ST4-917** offers the option of external preload adjustment for its self-locking limited slip differential.
- › **Central differential:** The **ST4-917** offers the option of integrating a central self-locking differential.
- › **Weight:** The **ST4-917** is one of the lightest gearboxes on the market that can handle such high power and torque levels.
- › **Robustness:** Our finite element calculation tool enables us to design extremely strong, compact, lightweight casings.

MAXIMUM ENGINE TORQUE





**ONE PASSION:
VICTORY**

SADEV has an exceptional record in supplying unique engineering to the most prestigious drivers and manufacturers. SADEV's products stand out for their technology, their excellence and their ambition. As precise as they are reliable, these high-tech masterpieces are the key to your victory. SADEV has just one goal: to make sure you win.

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