

RANGE
2WD
2 WHEEL DRIVE



 **ST90-17**
TRANSVERSE

SADEV
RACING TRANSMISSION

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RANGE
2WD
2 WHEEL DRIVE



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The **ST90-17** is the latest of SADEV's innovations in the 2WD transverse range. SADEV's main commitment was to concentrate on complex improvements in one gearbox. It offers, among others, a bigger centreline and a technical development of the differential to improve its efficiency in getting power to the wheels. Specifically designed for 2L turbo vehicles, the **ST90-17** meets the needs for Circuit, Rally, Rallycross and Hill climb projects and is also adapted for Touring cars and GT cars.

APPLICATIONS

- › *Circuit*
- › *Hill Climb*
- › *Rallycross*
- › *Rally*



TECHNICAL SPECS

6 speed sequential gearbox + 1 reverse gear

Manual sequential gear selection (semi-auto optional)

Wide range of final drives available

Wide range of ratios available

Straight cut gears

Gear engagement made by dogs

Inspection bungs

Interchangeable gear ratios

High strength carburizing steel

Gear teeth grinded with optimized profile

Shot penning on internal parts

Specific input shaft

Limited slip differential (low friction optional)

Ramp and plate system - 3 discs type (4 discs optional)

Preload made by compression springs

Wide range of ramp plates available

Reverse locking solenoid (optional)

Contactless gear position sensor

Contactless flat shift sensor

Temperature sensor (optional)

Splash lubrication system

Integrated oil pump

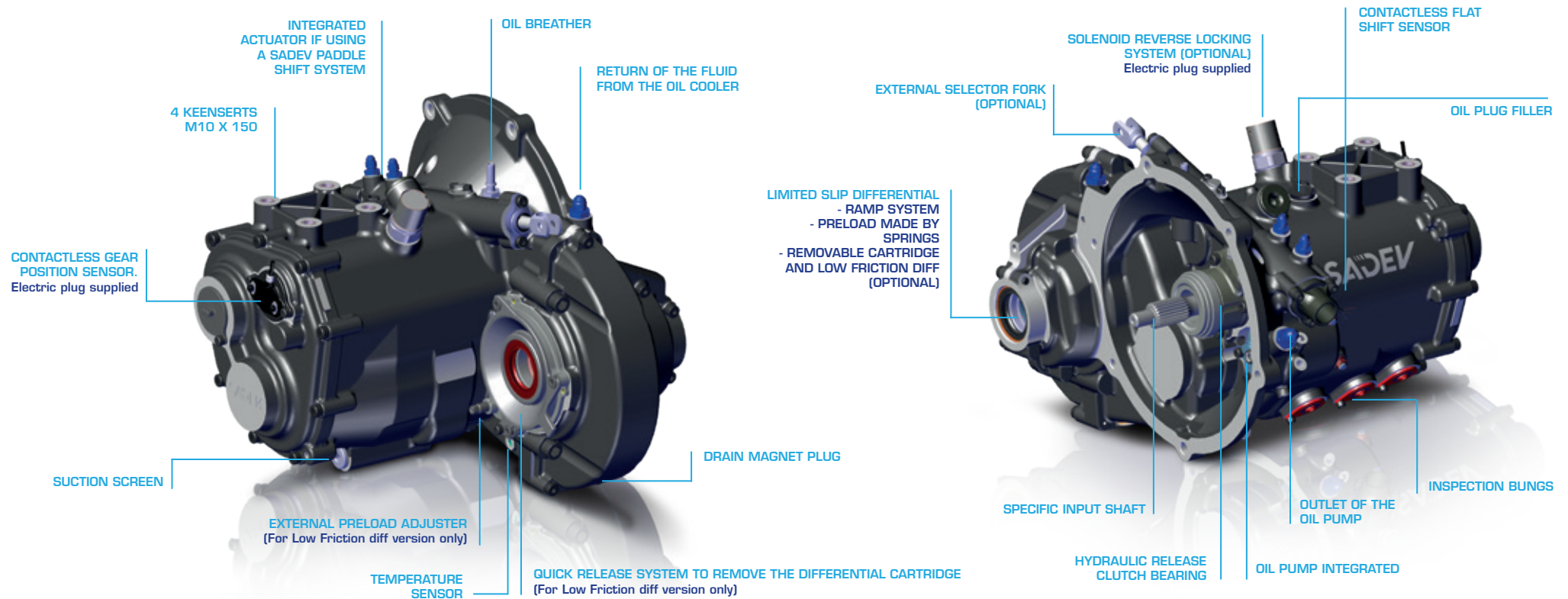
Oil suction screen

Painted AS7G aluminum casings

Casing joint faces sealed with O'rings

Quick release system to remove the differential cartridge (optional)

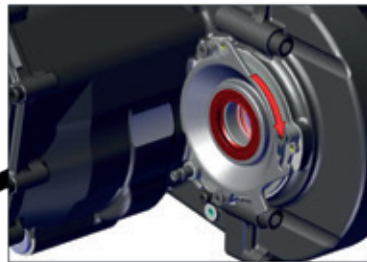
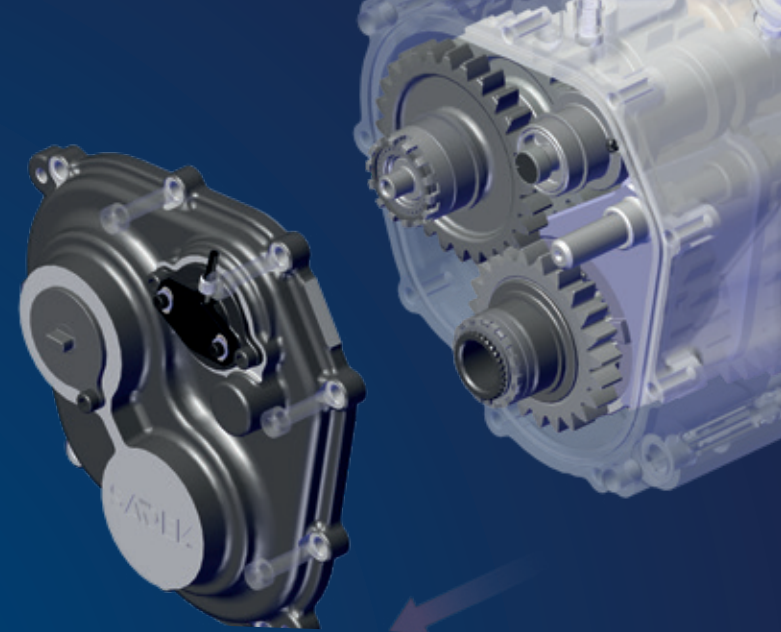
Weight (input shaft included) : 36 kg - 79 lbs



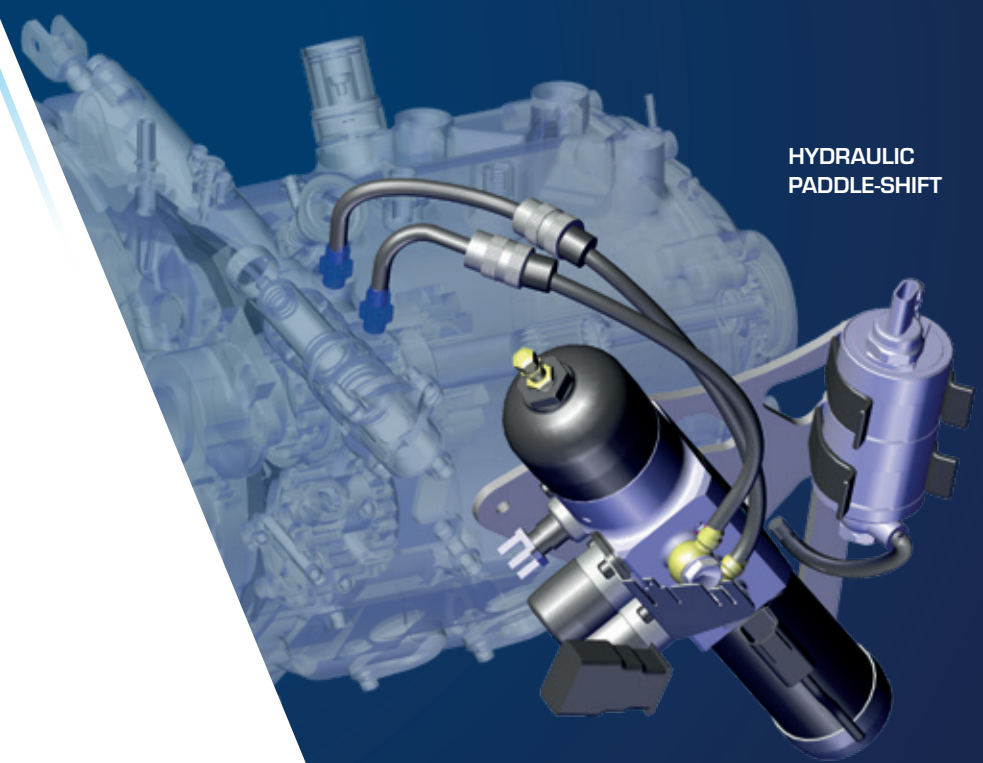
ACCESSORIES

- › Gear display
- › Driven tripod flange
- › Mounting plate
- › Gearlever
- › Hydraulic paddle-shift
- › Drive shafts

QUICK AND EASY ACCESS
TO THE GEAR RATIOS



HYDRAULIC
PADDLE-SHIFT



"QUICK RELEASE" SYSTEM
TO REMOVE
THE DIFFERENTIAL CARTRIDGE

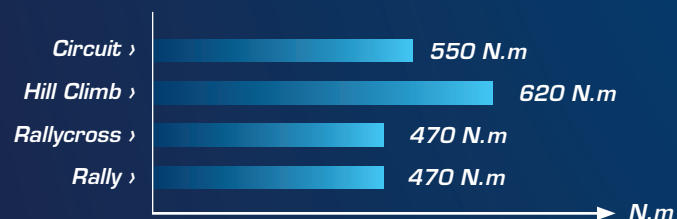




ST90-17 TRANSVERSE

- › **Experience:** The **ST90-17** incorporates all the latest technologies and the experience gained in the TCR series with our previous product, the ST82-17.
- › **Gears:** The **ST90-17** benefits from optimised and strengthened gear tooth profiles for maximum efficiency.
- › **Set-up:** External preload adjustment for its "Low-Friction" self-locking differential with a "quick release" system to disassembly the differential housing.
- › **Limited slip differential:** Limited slip self-locking ramp differential or "Low Friction technology" integrating an optimised teeth version (available as an option).
- › **Dimensions:** The reduced size of the **ST90-17** makes it one of the most compact gearboxes on the market.
- › **Selection:** An internal actuator can be fitted to the **ST90-17** to receive the SADEV hydraulic paddle-shift system.

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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