

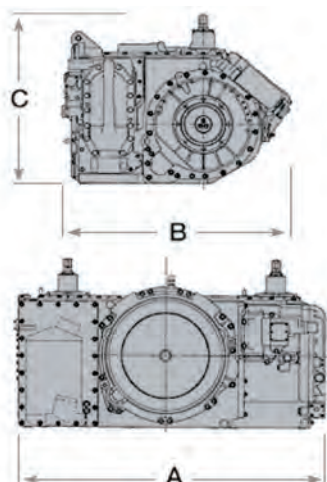
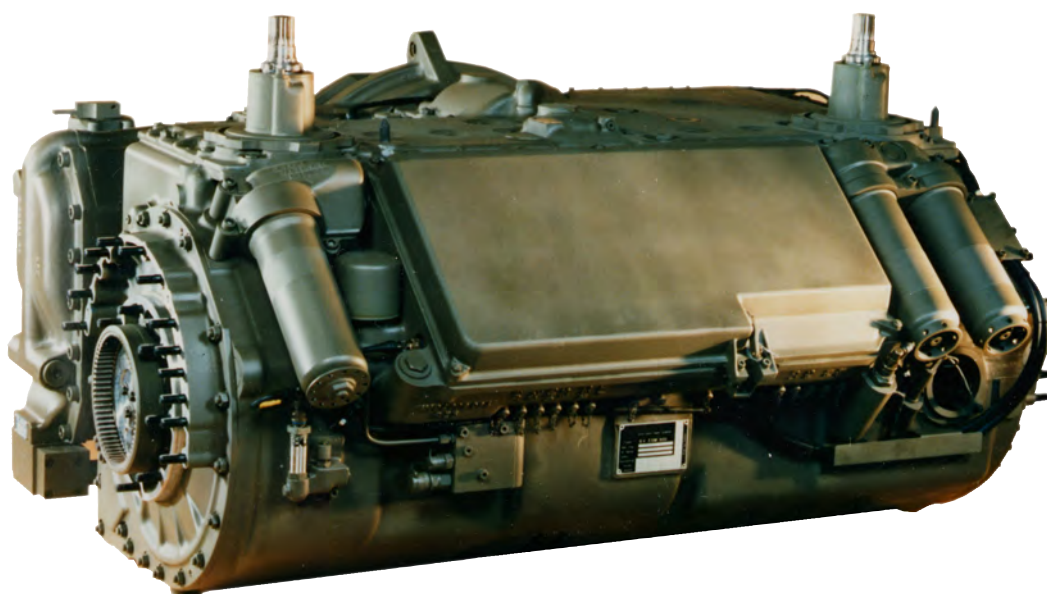
Transmission for tracked vehicles

ESM 500

RENK France ESM 500
for 60t class tracked vehicles
Power Range 750 - 1,200 kW

The ESM 500 is an excellent transmission for modern main battle tanks, in service with the French Army, featuring five speeds forward and two speeds reverse. It is equipped with a high power braking system with secondary retarder and carbon friction brakes.

The ESM 500 is volume produced since 1991 and currently equips the French Main Battle Tanks LECLERC.



Dimensions (AxBxC)	1,530 x 1,130 x 720 mm
Maximum engine power	1,200 kW (1,600 HP)
Vehicle weight, typical	60t class
Power shift transmission	5 speed forward 2 speed reverse
Overall ratio mechanical	5.36
Stall torque ratio	2.3
Transmission weight (dry)	1,800 kg
Brake system	integrated, high performance

Technical Characteristics

- Powerpack design
- Manual and fully automatic power shifting with electrical remote control
- Mechanical emergency gear shift system, able to automatically shift two gears forward and reverse
- Torque converter with automatic lock-up clutch
- Infinitely variable hydrostatic superimposed steering system
- Pivot turn and neutral turn around the vertical vehicle axis at infinitely variable speed
- Hydrodynamic/mechanical dual circuit integrated brake system
- Secondary side heavy duty retarder for service and sustained braking action
- High power mechanical Carbon service brake separately mounted
- Service and parking brake
- Power-take-off for fan drive with fully digital speed control and cut-off
- Engine can be started by towing the vehicle

Reference Vehicles

- Main Battle Tank LECLERC (56t, France)



MBT Leclerc



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