

# Transmission for tracked vehicles

## ESM 350

# 600-900 kW



MBT PT-91M

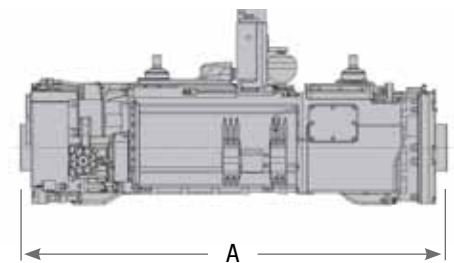
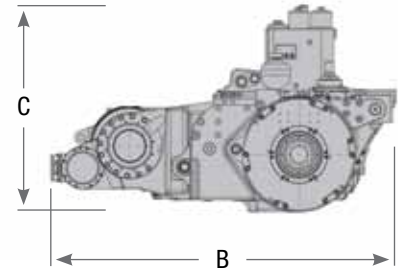
RENK France ESM 350  
for typical vehicle weight class 40–55 t  
Power range 600–900 kW  
(Power range is for guidance only, dependent  
on vehicle weight and speed)

The ESM 350 transmission is 8 speed, with all steering and braking functions incorporated within this single drop-in unit, for rear vehicle installation.

Purpose designed for T-72/T-90 Main Battle Tanks and derivatives, this transmission has a unique profile optimised for upgrade programs, requiring minimal hull adaption. The ESM 350 transmission can dramatically improve the mobility of T-72/T-90 vehicles. Coupled to an engine of up to 1,200 HP and a high performance cooling system, available from RENK France, the highly compact 'powerpack' offers enhanced vehicle availability, future-proof operation and optimal performance.

# Technical Characteristics

- Powerpack design
- U configuration (engine positioned across the vehicle)
- Manual and fully automatic power shifting with electrical remote control
- Mechanical emergency gear shift system
- Oil-cooled start-up clutch electronically controlled
- Infinitely variable hydrostatic superimposed steering system
- Pivot turn and neutral turn around the vertical vehicle axis at infinitely variable speed
- Integrated oil-cooled multidisk brakes
- Service and parking brake
- Power-takeoff for fan drive with fully digital speed control and cut-off
- Additional power-takeoff for special vehicles (ARV, AEV, AVLB)
- Engine can be started by towing the vehicle



Technical Information	
Dimensions (AxBxC)	1,930 x 1,600 x 900 mm
Maximum engine power	900 kW (1,200 HP)
Vehicle weight, typical	40-55t class
Power shift transmission	8 speed forward 3 speed reverse
Overall ratio mechanical	14.5
Transmission weight (dry)	1,800 kg
Brake system	integrated, high performance



## Reference Vehicles

- Main Battle Tank PT-91M and fleet family, Malaysia

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