

MILITARY VEHICLES TRANSMISSIONS

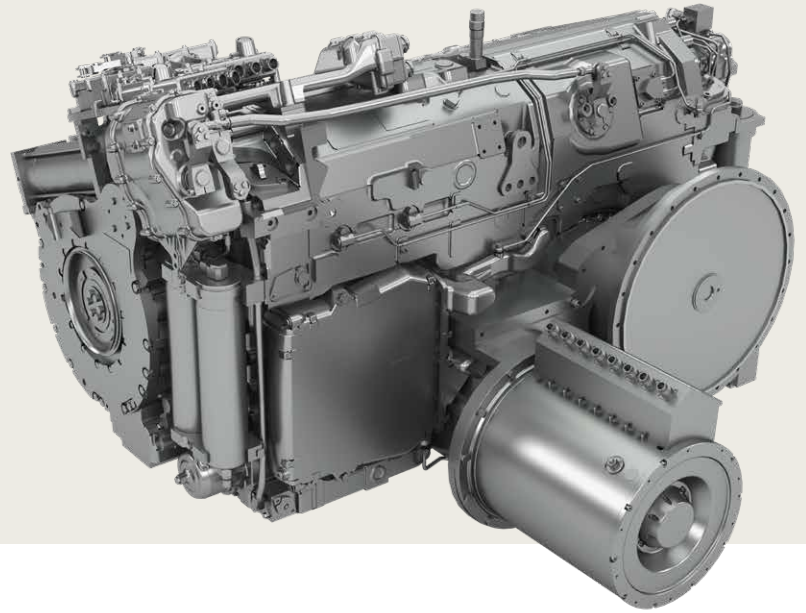
HSWL 256 EVO

/ Weight class

35-50 t

/ Power range

500-850 kW



The HSWL 256 EVO transmission offers superior maneuverability due to the 6 speed transmission and high performance steering system with true pivot functionality. The system features the M82 electric motor generator, providing additional mobility and power generation capabilities to the vehicle platform. The HSWL 256 EVO also includes Drive-By-Wire functionality.

Featuring the latest developments within its class, this modern, high performing transmission offers extraordinary reliability for mission and crew assurance and meets all the requirements of the latest generation, complete with excellent brake performance, digital control and emergency operation.

HSWL 256 Reference Vehicles

- PUMA IFV – Germany
- AJAX family of vehicles – U.K.
- LYNX KF41 – Germany



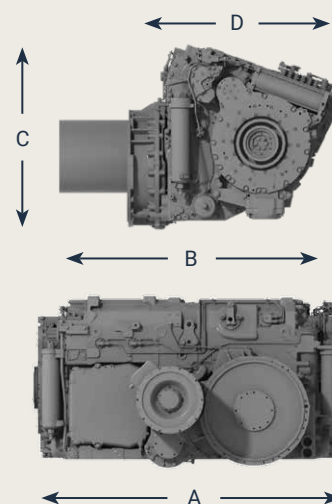
HSWL 256 EVO

Features

- Fully integrated electric motor generator
- Up to 875 kW combined boost capability
- Front or rear vehicle installation
- Compact and lightweight
- Flexible choice of engine and input position
- Various power-take-off solutions
- Flexible transmission design for electric drive and drive-by-wire
- Powerful steering system allowing very tight cornering & rapid turns
- True pivot-turns around the vehicle axis
- Safe steering to a standstill with failed engine
- Fully integrated brake system; dual circuit disc brakes
- Secondary side heavy duty retarder for service brake and sustained braking action
- 6 speeds, with same ratios both forwards and reverse
- Torque converter with automatic lock-up clutch
- Manual and fully automatic power shifting with electrical remote control
- Digital electronic control and monitoring and diagnosis
- Mechanical emergency gear shift system
- Engine may be started by towing the vehicle

Technical Information (dependent on variant)

Dimensions (AxBxCxD)	1,584 x 1,360 x 871 x 1,005 mm, typical
Maximum engine power	850 kW (1,150 hp)
Maximum e-drive power	300 kW (400 hp)
Vehicle weight, typical	35-50 t
Power shift transmission	6 speed forward, 6 speed reverse
Overall ratio, mechanical	6.3
Stall torque ratio	2.3
Transmission dry weight	1,980 kg
Brake system	Fully integrated, high performance
Steering system	Integrated, high maneuverability



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