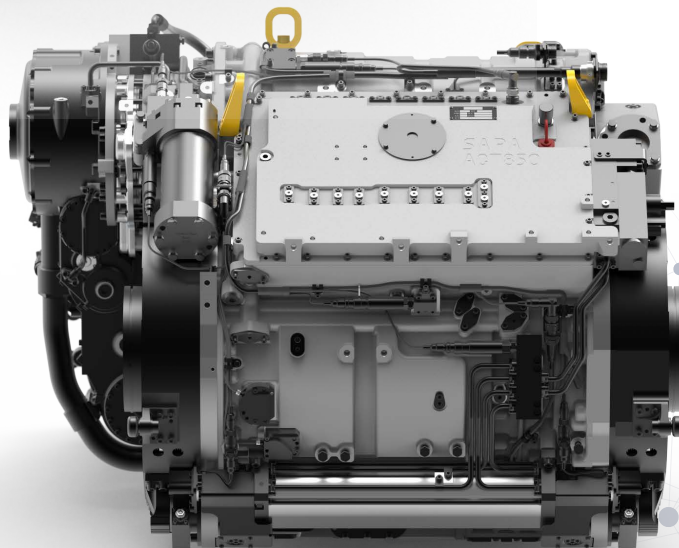
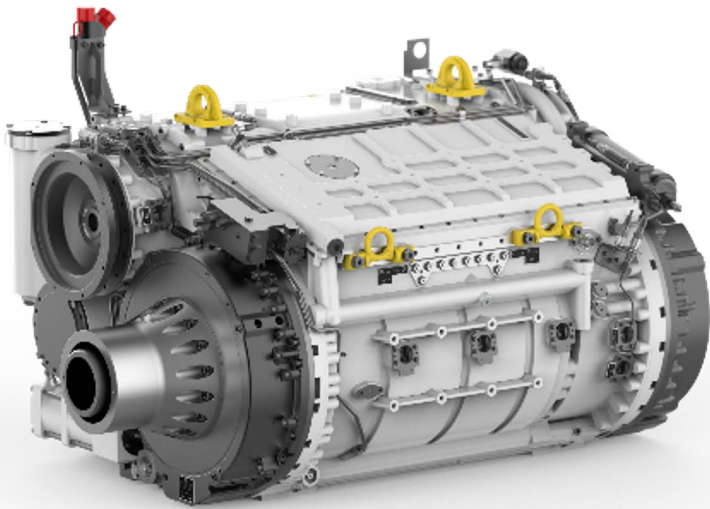


SAPA

Tracked Vehicle Transmissions



Mobility through efficiency

SAPA brings new mobility technology into combat transmissions. This new technology, founded on different physics compared to traditional transmissions, improves mobility at all levels.

Mobility is a fundamental vector of combat vehicles, alongside protection and firepower. Specifically, enhanced mobility underpins protection and firepower, enabling the achievement of positions of advantage and thus maximizing the effective use of protection and firepower, ultimately increasing combat systems fightability. Furthermore, mobility technology plays a crucial role in determining the sustainability and evolution of vehicles. This, in turn, defines the growth potential of the formation.

Additionally, mobility is a shared characteristic across entire formations, in which individual vehicles need to maneuver in coordination - at the same capacity - to effectively function as a formation.

SAPA believes that modern combat tactics and operations require new mobility technology.

Therefore, SAPA's technology provides a native open architecture, integrated drive, steer and brake-by-wire capability. Increasing power efficiency produces a positive spiral of benefits, such as enhanced performance, fuel economy, heat operation and growth capacity, among others. SAPA incorporates a network of sensors for data acquisition and processing which, combined with the open architecture of the system, guarantees digital evolution.

SAPA's technology is currently fielded in NATO tracked and wheeled vehicles, already successfully integrated and tested in a variety of US platforms, both with the US Army and leading American OEMs.

Advantages

PROPULSION EFFICIENCY	● 32 gears/20:1 spread	● Heat rejection/90%	● Fuel consumption
STEERING EFFICIENCY	● Seamless mechanical	● Vehicle agility	● Fuel consumption
DRIVE BY WIRE	● Optionally manned	● Autonomous drive	● Mission data
HYBRID	● Performance	● Parallel Electric	● Silent mobility
MOST COMPACT	● Highest power density	● Integration of technologies	● Reduced vehicle size
FLEXIBILITY	● Power pack components	● Vehicle weight	● Vehicle upgrade
COMMONALITY	● Parts	● Software	● Operational, maintenance

Rating & specification

Technical characteristics

Model	SG 35T	ACT 850	ACT 1075
Max. engine power (hp/kW)	850/625	1000/750	1500/1120
Max. vehicle weight (ton)	45	50	75
Number of gears	32	32	32
Ratio Spread			
Forward range	20:1 to 1:1	20:1 to 0.83:1	33:1 to 1:1
Reverse range	35:1 to 1.75:1	24:1 to 1:1	33:1 to 1:1

Physical description

Model	SG 35T	ACT 850	ACT 1075
Width (mm)	1170	938	1300
Length (mm)	1200	873	901
Height (mm)	903	850	800
Dry weight (kg)	1800	1400	1995
Powerpack configuration	T	T.U	T.U

Power take off provision

Model	SG 35T	ACT 850	ACT 1075
Drive	Engine	Engine	Engine
Mounting position	Right side	Right side	2xRight side (A,B) 1x Left side (C)
Power rating (hp)	134	400	(A) 400 (B,C) 1500

Key benefits

- Torque converter eliminated
- Efficiency higher than 90% in any condition
- Drive, steer and brake by wire

- Commonality across multiple platforms
- Modular Open System Architecture
- Diagnosis and autodiagnosis