

**NEW PRODUCT**

**SEPSON  
SEPTRAC**



Recovery winch with separate traction and wire rope storage units

For superior performance, flexible vehicle integration and constant pulling force

- Constant pulling force along entire wire rope length
- Flexible installation due to separate wire rope storage unit
- Compact, space-efficient traction unit
- Storage unit size defined by wire rope length only
- Low tension storage – protects wire rope from wear
- Low operation cost and long service life cycles



## Constant pulling force along the entire wire rope length

**SEPSO** **SEPTRAC** uses two separate units – one for pulling and one for storing the wire rope – allowing for constant pulling force and constant wire rope speed, regardless of wire rope length and spool diameter.

Hence, the **SEPSO** **SEPTRAC** traction unit is optimized to let the powerful motor smoothly offer the same performance and speed over the entire wire rope length. No loss of pulling force and no stops or jamming. In comparison a conventional drum winch must overcompensate, resulting in an "oversized design", dimensioned to handle the top layer pull force and the massive pressure from the high tension wire rope storage.

## Flexible installation

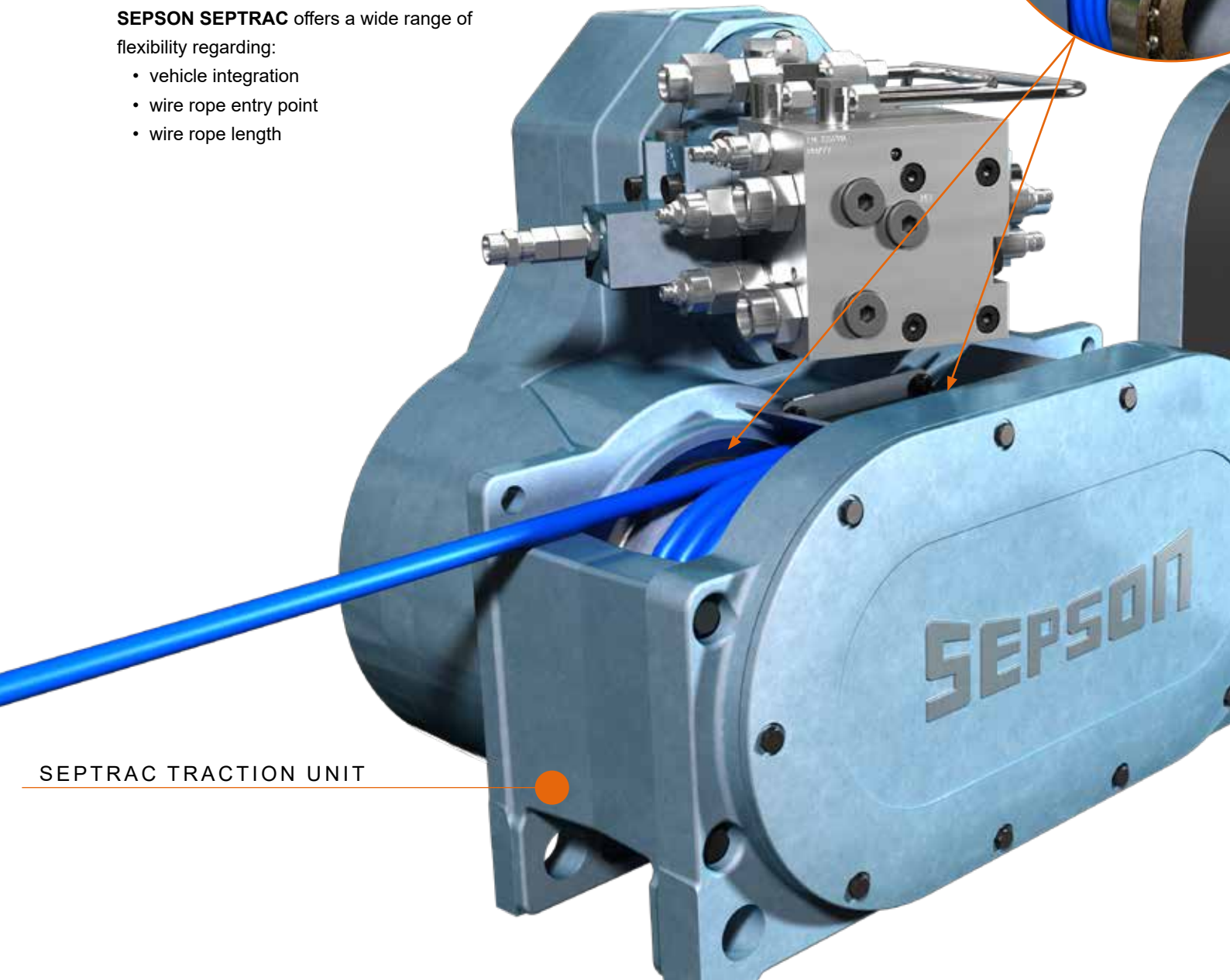
Different vehicles require different winch applications. Due to the separate traction unit and storage units, **SEPSO** **SEPTRAC** offers a wide range of flexibility regarding:

- vehicle integration
- wire rope entry point
- wire rope length

## Low tension storage protects wire rope from wear and ensures safe service operation

In order to maximize traction torque with a minimum of wire rope wear, the **SEPTRAC** traction unit uses two grooved capstan drums. The grooves maximize the frictional force and protect the wire rope from wear by keeping the coils separated.

With, or without, intermediate wire rope guidance, the wire rope winds up onto the storage unit, with a modest back tension force of just 1-3% of the available **SEPTRAC** pulling force. The low storage tension force eliminates the risk for crushing layered coils as well as jamming when rewinding a slack wire rope. It also ensures long wire rope life, and safe service operation.



SEPTRAC TRACTION UNIT

## Compact design – small space claim

The compact traction unit, with its fully integrated planetary gearbox, is smaller than a conventional drum winch and can be mounted separately from the storage unit, with a guiding of the wire rope between the two units. This design ensures a small space demand and offers great flexibility in vehicle integration and choice of wire rope entry point. The wire rope storage unit can be dimensioned, positioned and oriented independently of the traction unit position and the wire rope entry point. All of which provides vehicle designers and manufacturers with unsurpassed advantages.

## No limitations to wire rope length

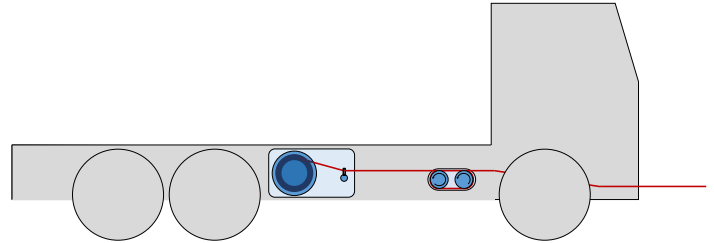
Since the wire rope storage unit can be integrated separately from the traction unit, the only limitation to the wire rope length is the size of the storage drum and available package space. **SEPSO SEPTRAC** will also be available for synthetic wire rope.



WIRE ROPE STORAGE UNIT

## INSTALLATION EXAMPLES

### Units separated



## INSTALLATION EXAMPLES

### Units integrated



## Concept benefits: vehicle designers/manufacturers

- Two-unit design: traction unit, wire rope storage unit
- Flexible installation with integrated or separated units
- Compact traction unit, designed to be space-efficient and easy to integrate
- Storage unit location independent of wire rope entry point and traction unit location

## Concept benefits: users

- Constant pulling force along the entire wire rope length
- Constant wire rope speed
- Low-tension storage protects wire rope and offers safe service operation
- Synthetic rope version will be available
- Safe and easy operation
- Low operation costs and long service life cycles

## Precise dimensioning, low operation costs and long service life cycles

The two-unit winch design minimizes rope wear and eliminates the need to overcompensate in order to achieve a constant pulling force. This cuts operating costs and ensures long service life cycles, making **SEPSO** **SEPTRAC** a highly cost-efficient choice, in addition to the easy and safe operation, precise traction force control monitored on the remote control display.

## Applications

Developed for military and civilian applications, **SEPSO** winches are used all over the world. The space-efficient design, flexible integration and reliable performance, as well as the constant pulling force make **SEPTRAC** especially well-suited for Heavy Equipment Trailer (HET) and Armoured Personnel Carriers (APC:s).



## World Class Winches – Since 1900

*A global supplier of reliable, dependable and uncomplicated vehicle-mounted winches, Sepsos is always in the forefront with competent and innovative development of world class hydraulic winches and systems for civilian and military users all over the world.*



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