



LINEAR CABLE ENGINES

SMD can offer a range of standard hydraulic or servo driven Linear Cable Engine (LCE) systems, the systems are available with a broad range of ancillary equipment and software to give a comprehensive cable lay solution. The servo motor driven system achieves unparalleled control and flexibility, with permanent magnet servo motors to produce a high torque which are able to stall at full torque for long periods without generating excessive heat. Motors are lower noise compared with induction motors and are water cooled, requiring no external cooling fan, making it more suitable for operation in high ambient temperatures. Due to the increased torque, servo motors are able to run at 2/3 of an induction motor speed to produce the same power, producing proportionately less heat through churning losses in the gearbox. The servo motor is also shorter and approximately half the mass when compared to an equivalent power induction motor, which significantly reduces shock loading on repeaters if handled at any speed.

LCE FEATURES

- Low mass/inertia guides
- Wheel arm geometry minimises repeater impact loads when laying
- Drives provide excellent anti-slip and load sharing performance
- Repeater handling mode to auto sequence guide opening ahead of repeaters.
- Modular design to suit Customer requirements.



TYPICAL LCE SPECIFICATION

GENERAL	
Typical Configuration	20-wheel pairs (or multiples of 4-wheel pairs)
Dimensions	17.5m (L) x 2m (W) x 1.8m (H)
Weight	~17.6Te
Deck Mounting	6x Load cells
Drives	AC Servo

PERFORMANCE	
Pick-Up/Pay-Out Max Tension	18Te
Maximum Speed	8 knts
Cable Size Range	14mm dia. Lightweight to 150mm dia. armoured
Repeater	Max 400mm dia, up to 2m long
Mechanical Brake	25Te