CEMAC Linear Cable Engines

Proven technology for safe cable handling

The CEMAC linear cable engines (LCEs) represent MacArtney's leading-edge offshore cable handling equipment. These LCEs belong to the product line, which incorporates both cable carousels, track tensioners and bow cable engines.

Being electrically driven, the CEMAC offshore LCEs are accurate and energy-efficient systems that safely control the installation and recovery of offshore power and telecom cables.

The engines feature durability, high performance and easy integration. Available in standard and custom configurations, they are easily combined with cable carousels, track tensioners, power quadrants, spooling arms, etc.

The CEMAC design represents compact and modular systems that are easily mobilised and cost-effective in terms of transport. All main components are standardised, which facilitates adaptation and upgrading to the required performance and capacity.

The CEMAC LCEs are fully synchronisable with all CEMAC offshore cable handling equipment. The LCEs also comply with third-party equipment, enabling integration into existing and rental cable equipment lay-lines.

The CEMAC LCEs are available with a remote diagnostics tool, which enables MacArtney technicians to monitor and supervise remotely in real-time. By eliminating unnecessary offshore engineering support, this unique feature generates substantial cost savings forowners and operators.

Versatility in all transpooling applications

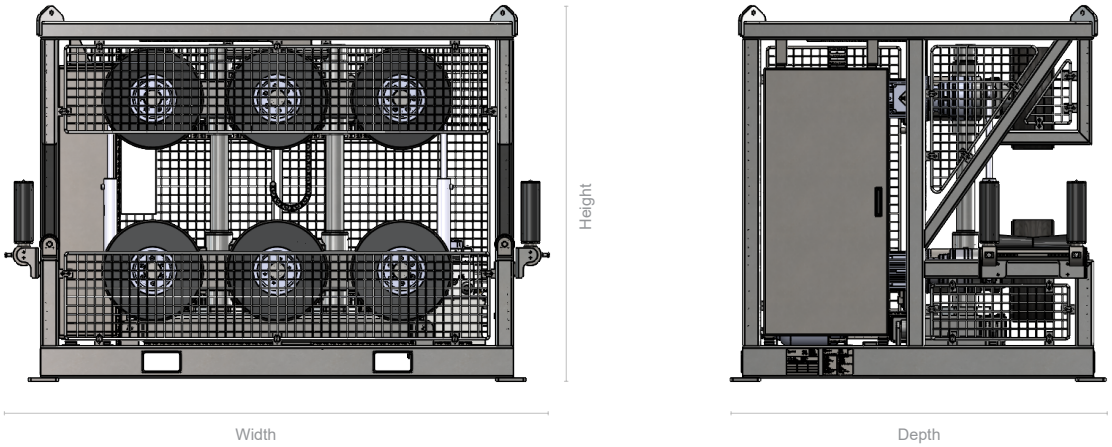
CEMAC Linear Cable Engines (LCEs) offer versatile functionality with optional bow arms and slings for crane-assisted cable loading and unloading. This adaptability allows for taking on both vertical and horisontal cable transpooling operations. Additionally, MacArtney BCEs and LCEs can be fully synchronised with carousels and other third-party equipment, facilitating seamless integration into existing and rental cable equipment lay-lines. Available in 1-, 2-, and 3-wheel pair configurations, CEMAC linear cable engines are also suitable for master-slave operations, providing enhanced flexibility and efficiency.

Features and benefits

- Suitable to deploy as a Bow Cable Engine
- Compact and modular design
- Minimal pressurised oil
- Electrically driven, eliminating the necessity for external HPUs
- Small footprint
- Standardised and exchangeable components
- Optimised energy consumption
- Accurate controllability
- Integrated control system
- Designed for seamless system integration
- Advanced product integrity monitoring system
- Comprehensive data logging
- Low noise operation
- DNV/BV compliant design

Options

- Top-loaded versions
- Wide opening versions
- Extra high speed 6000 m/hour
- Remote diagnostics
- Service and maintenance program
- Tailored spare parts philosophy
- Wireless remote control
- Comprehensive data output
- Tarpaulin cover
- CE marking
- Certification according to DNVGL-ST-0378 (2.22), DNVGL-E2.7-3, and ILO 152



Specifications

Model	10 kN	20 kN	30 kN
Width - base (mm)	1,700	2,500	3,060
Width - lifted (mm)	6,360	7,210	9,580
Width - on ground	7,370	8,225	11,300
Height (mm)	2,110	2,110	2,110
Height - lifted (mm)	3,275	3,350	4,100
Depth (mm)	1,720	1,875	2,115
Max. pull force (kN)	10	20	30
High speed pull force (kN)	1	2,5	3,5
Max. pinch force (kN)	20	40	60
Speed (m/hour)	0-1,300	0-1,300	0-1,300
High speed (m/hour)	0-3,000	0-3,000	0-3,000
Coefficient of friction	0,25	0,25	0,25
Max. cable pressure (kN/m)	142	143	143
Wheel diameter (mm)	570	570	570
Wheel contact length/pair (mm)*	170	170	170
Max. cable pressure (kN/m)	117	117	117
Opening (mm)	380	380	380
Cable capacity (mm ø)	50-400	50-400	50-400
Weight - base (kg)	2,210	2,900	3,570
No. wheel pairs	1	2	3
Power supply (VAC - Hz)	3 x 400-440 - 50/60	3 x 400-440 - 50/60	3 x 400-440 - 50/60

**Depends on the tire pressure*