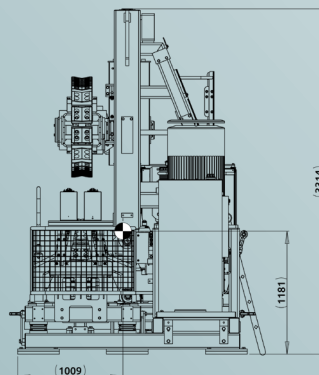
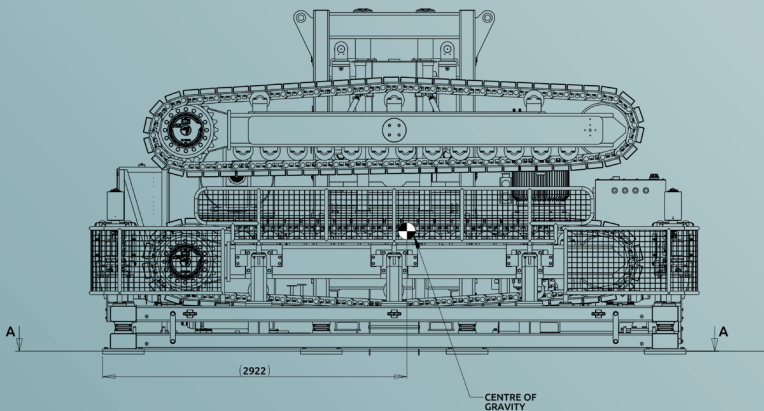
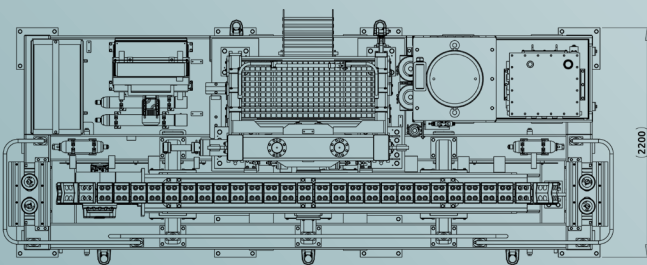


# 15Te breakback tracked engine

Our 15Te tracked tensioners are suitable to be operated in the most hazardous environments the industry has to offer. With its robust design, which has been developed by Royal IHC over the past 20 years, this is a reliable system for the laying and retrieval of subsea cables and umbilical.

## Key features

- maximum tension available in both directions for flexible deck positioning
- break-back function for quadrant and large terminations passage
- pinned upper track for handling tapered products
- integrated HPU for rapid mobilisation
- road transportable and available for worldwide deployment
- synchronisation options available on request:
  - parallel lay operation with two tensioners from single desk for bundled cables
  - series lay operation with two tensioners from single desk for higher line tensions
  - remote speed set point from other cable equipment or control room.



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## Specifications

- **Maximum tension:** 15Te
  - **Maximum speed:**
    - 0.5 - 15m/min at 15Te
    - up to 45m/min at reduced tension
  - **Track contact length:** 3,120mm
  - **Track squeeze force:** 0-13.5Te/m (limits can be set from HMI)
    - accumulator backup for product holding during blackout
    - increased range of 0-19Te/m available on request
  - **Cable range:** 50mm to 400mm
  - **Cable guides:** hydraulically actuated inlet/outlet roller guides
  - **Load monitoring:** within 5% of range
  - **Line height:** 1265mm excluding 30mm sacrificial plates.
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## Operating modes

- **Manual:** speed control from desk potentiometer
  - **Auto (CT):** manual speed control in both directions with max tension set point
  - **Render:** tension control pay out.
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## Transportation

- **Dimensions:** 5,855mm x 2,200mm x 3,315mm (LxWxH)
  - **Weight:** 15Te
  - **Handling:** dedicated lift set and fork pockets.
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## System interfaces

- **Deck mounting:** bolted connection, available with pre-fitted sacrificial weld down plates on request
  - **Power requirement:** 440V / 3 phase / 60Hz / 125A (can operate from 50Hz supply at reduced speed)
  - **Survey output:** speed, distance, squeeze force and tension available via RS232 or RS485 connection.
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## Additional equipment

- **Control desk:** dedicated IP56 panel with colour HMI (800mm x 450mm x 330mm)
  - **Interconnecting cables:** control desk power and communication cables - 15m (extended lengths available on request)
  - **Spares package:** dedicated spares package supplied as standard
  - **Test bar:** pull test bar for onsite testing and calibration, available on request.
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## Additional services

We offer a range of services to complement our equipment rental.

- **Additional testing and training:**
  - additional system testing bespoke to client requirements
  - friction testing
  - client operator training
- **Deck layout support:** assistance in optimising deck arrangements for efficient operations
- **Operator support:** trained operators available for short or long-term project support
- **Logistics assistance:** we manage all transportation and handling, ensuring smooth delivery to any site.

