



Offshore elevator tests in our 20 MN Test Bench

Range of services:

- Planning and preparation of testing program taking elevator dimensions and length of bails into account
- Functional Test at an elevator prototype with given proof load
- Strain gauge application in critical areas (Hot-Spots) at the elevator prototype
- Design Verification Test with doubled proof load
- Comparison of measured tension/extension with FEM-results
- Vertical Proof Load Test at a second elevator
- Horizontal Proof Load Test at a second elevator

We are accredited by:

DAkKS (National accreditation body for the Federal Republic of Germany)

DMT GmbH & Co. KG, DMT Laboratory for Non-Destructive and Destructive Testing -Rope Testing Centre-, Bochum, Germany: For manual non-destructive testing (UT, MT, PT, VT, magneto-inductive testing) and mechanical testing of metallic and non-metallic materials.

SQS (Swiss Association for Quality and Management Systems)

DMT GmbH & Co. KG in Bochum, Germany: Quality management system for consultancy, exploration of raw materials, geoengineering, expert appraisals, research and development, testing and training. The QMS complies with DIN EN 9001:2008.

DMT GmbH & Co. KG

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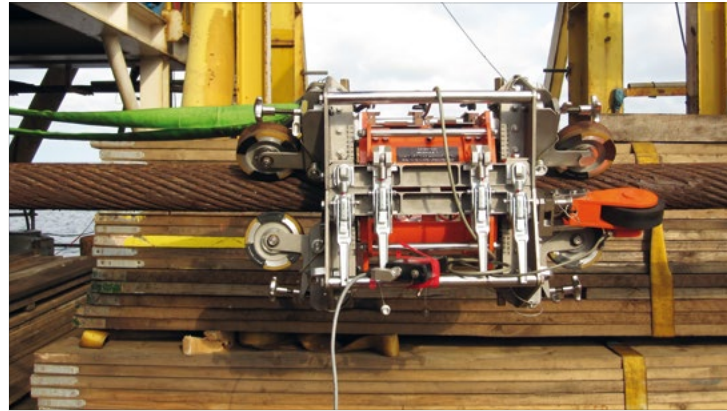
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More than 100 years of experience in rope testing



DMT Rope Testing Centre - offshore applications -



Magnetic Rope Testing (MRT) of Saipem S 3000 Crane Ropes

Client: Saipem Portugal, 2012 – 2015

Range of services:

- First MRT of the main winch rope (Rema winch, rope diameter 105 mm, rope length more than 3,000m) was executed on board of the subsea construction vessel Saipem S 3000 offshore near Congo/Africa in 2012.
- In 2014 a re-examination of the 105 mm rope offshore near Rotterdam/Netherlands was carried out during unreeling. In the following MRT of a new 105 mm rope during installation into the crane system was done to get an „initial trace“ of the rope.
- In 2015 the first re-examination of the new 105 mm rope was executed offshore near Italy, during this operation 4 more ropes with a diameter range from 32 mm to 52 mm were examined with MRT as well.

References: MRT on offshore crane ropes 2012 – 7/2015:

Client	Vessel	Location/Year
Saipem	Saipem S 3000	Ravenna, IT/2015
SS7/Wiretech	Normand Oceanic	Sandnessjoen, NO/2015
Siem/Wiretech	Siem Daya 1	Stavanger, NO/2015
Siem/Wiretech	Siem Daya 2	Alesund, NO/2015
Eidesvik/Wiretech	Viking Neptun	Ulsteinvik, NO/2015
Emas/Eurorope	Lewek Constellation	Rotterdam, NL/2015
Ceona/Bridon	Ceona Amazon	Rotterdam, NL/2015
Saipem	Saipem FDS	Port Gentil, GAB/2014
DOF/Wiretech	Skandi Skolten	Stavanger, NO/2014
Solstad	Normand Cutter	Transit Malta to Cadiz, ES/2014
Saipem	Saipem FDS	Rio de Janeiro, BR/2014
Saipem	Far Samson	Rio de Janeiro, BR/2014
Subsea7	Seven Viking	Bergen, NO/2014
Saipem	Saipem FDS 2	Transit South Africa to Rio, BR/2014
Siem/Wiretech	Siem Daya 1	Transit Kristiansund to Bergen, NO/2014
Saipem	Saipem S 3000	Rotterdam, NL/2014
Eidesvik/Wiretech	Viking Poseidon	New Orleans, USA/2013
Solstad/Wiretech	Normand Installer	Lervik, SCT/2013
DOF/Wiretech	Skandi Archiver	Aberdeen, UK/2013
Subsea 7	Seven Eagle	Canary Islands, ES/2013
Saipem	Saipem 3000	Pointe Noire, CG/2012
Solstad	Normand Oceanic	Stavanger, NO/2012

Our services for all rope and component testing requirements comprise:

- MRT for new ropes
- MRT for ropes in the field
- Single wire testing
- Damage analyses
- Mechanical and technological determination of properties in our Rope Testing Centre:
 - Determination of tensile strength up to 20 MN
 - Determination of rope moduli of elasticity
 - Torque analysis
 - Fatigue test
 - Creep test