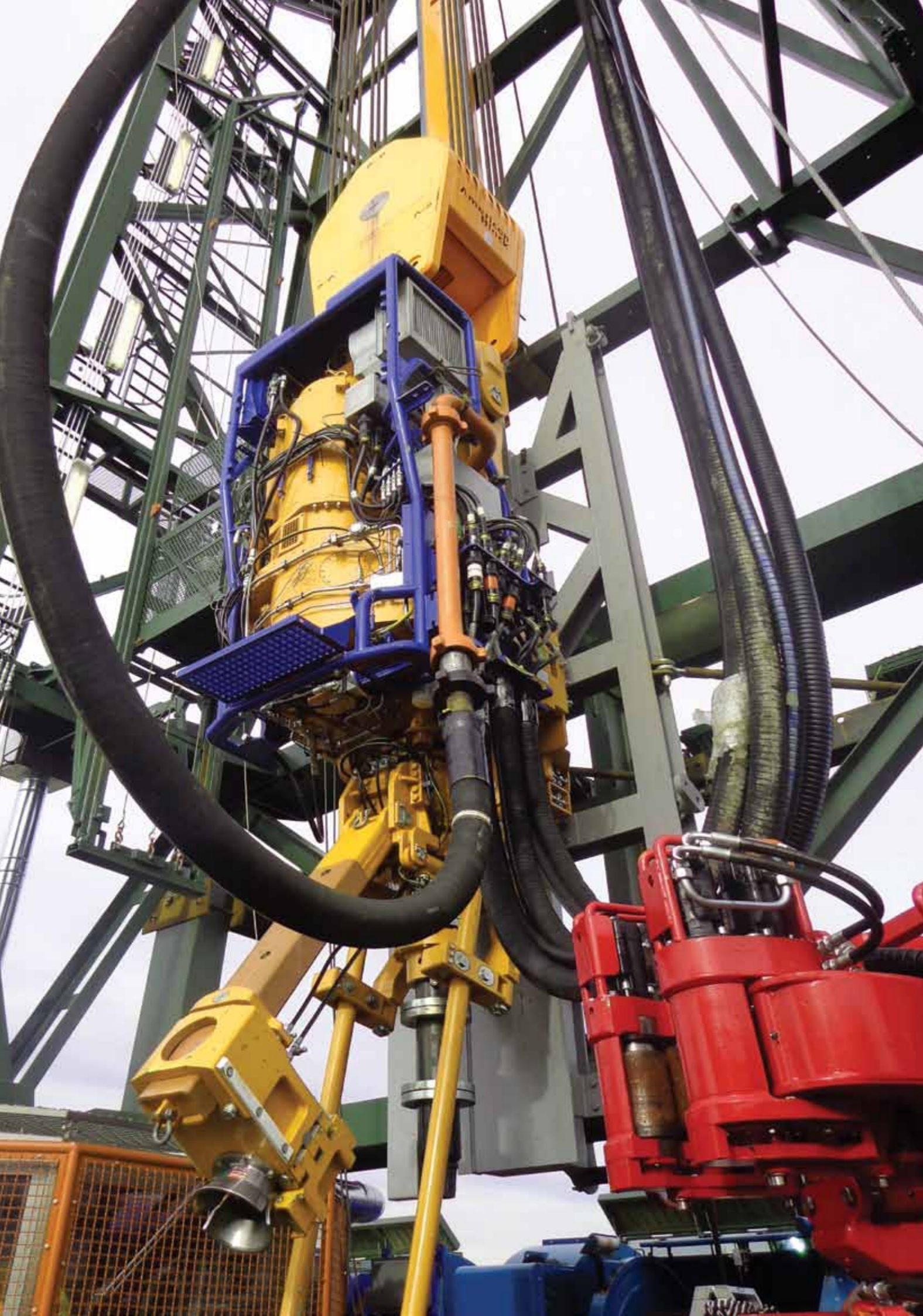


ETD Series



The core
of drilling
innovation



Electric Top Drives

In the oil & gas industry top drives technology are used to increase performance and safety; from Drillmec's solid experience in manufacturing hydraulic pipe handling systems and top drives, we are introducing the ETD Series.

The Drillmec Electric Top Drive is designed both in transportable as well as permanent installation configurations for deep drilling rigs with different mast types. The System is powered by an AC motor. The ETD Series is controlled by a separate control panel.

The standard Top Drive version includes the following items:

- Hanger assembly with integrated counterbalance cylinders
- Standard washpipe
- Link-tilt-system with position monitoring designed for high impacts
- Remote-controlled and manual IBOP
- Backup Clamp to make up and break the Top Drive drill pipe connection
- Guide rail system inducing the torque within the mast
- Electrical service loop
- Suitable for installation on any kind of mast and derrick

| ETD Series | | ETD 375 | ETD 500 | ETD 750 |
|----------------------|--------|---------|-------------------------------|-----------|
| Model | | | | |
| Max Pull Up Static | mt | 340 | 453 | 680 |
| | lbs | 750,000 | 1,000,000 | 1,500,000 |
| Max Drilling Torque | Nm | 43,400 | 70,000 | 105,000 |
| | lbs ft | 32,000 | 51,600 | 78,000 |
| Max Break Out Torque | Nm | 100,000 | 100,000 | 132,000 |
| | lbs ft | 73,700 | 73,700 | 97,000 |
| Static Brake Torque | Nm | 125,000 | 125,000 | 159,000 |
| | lbs ft | 92,000 | 92,000 | 117,000 |
| Working Pressure | bar | 517 | 517 | 517 |
| | psi | 7,500 | 7,500 | 7,500 |
| Speed | rpm | 0 - 150 | 0 - 115 | 0 - 108 |
| ID Full Opening | mm | 76.2 | 76.2 | 101.6 |
| | in | 3 | 3 | 4 |
| Power Rating | kW | 850 | 850 | 1,200 |
| | Hp | 1,150 | 1,150 | 1,600 |
| Notes | | - | 500 mt version also available | - |



Quality System



Policy

Drillmec has always viewed continuous improvement of company processes and complete satisfaction of customer's needs as essential factors for standing out on the highly complex, competitive oil and gas market. Drillmec's Quality System and HSE System are essential tools for achieving its business goals.

In accordance with its general aims and strategies for growth, Management promotes:

- The central role of the customer
- Full involvement of all personnel to ensure complete awareness of the significance and importance of their work and how they can contribute to achieving quality goals, environment, health and safety protection
- Continuous improvement of the quality of products and services, especially through a strong drive toward technological innovation
- Continuous improvement of process performance
- Safeguarding of the environment and protection of workers' health and safety. Such commitment is widespread not only to our workers, but even to our subcontractors and suppliers.

All drilling equipment are matched to provide optimal performance with keen attention paid to reliability and running costs.

Certifications

Drillmec SpA and Drillmec INC quality management systems are certified by API (American Petroleum Institute), DNV (DNV Business Assurance), RTN (Rostechnadzor) and CU-TR (Russian approval) and can also work under Norsok, ABS and RMRS, if required by the client.

| | |
|--------------|--------------------|
| API 4F-0062 | CU-TR 0529642 |
| API 6A-0492 | CU-TR 0982253 |
| API 7-1-0305 | CU-TR 0529643 |
| API 7K-0045 | CU-TR 0529646 |
| API 8C-0041 | CU-TR 0529647 |
| API 16A-0112 | |
| API ISO-0076 | RTN: PPC 00-047448 |
| API Q1-0527 | |
| API 4F-0058 | |

ISO 9001:2008
ISO 14001:2004
OHSAS 18001:2007



APIQR® Registration no. 0076



COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =
= ISO 14001 =
= OHSAS 18001 =



For further information...

If you would like further information about our company, products or services, please don't hesitate to get in touch with us. You can do this in a number of ways...

| | |
|---|---|
| - Website | www.drillmec.com |
| - Email | info@drillmec.com info@drillmecinc.com |
| - Addresses | 12, via I° Maggio 29027 Gariga di Podenzano (PC) - Italy 18320 Imperial Valley Drive 77060 Houston, Texas - U.S.A. |
| - For general information please call | Italy +39 0523 354200 U.S.A. +1 281 885 0777 |
| - For sales, please call our sales department | Italy +39 0523 354220 Italy +39 0523 354241 U.S.A. +1 281 214 7669 |
| - For spare parts, please call our spare parts department | Italy +39 0523 354285 U.S.A. +1 281 214 7866 |

BRANCHES



DRILLMEC SPA - ITALY
 DRILLMEC INC. - U.S.A.
 DRILLMEC MEXICO - MEXICO
 DRILLMEC COLOMBIA - COLOMBIA
 000 DRILLMEC R - RUSSIA
 SEISMOTEKHNKA - BELARUS
 I.D.T. - U.A.E.
 DRILLMEC IRAQ - IRAQ
 DRILLMEC INDIA - INDIA
 DRILLMEC SINGAPORE - SINGAPORE