



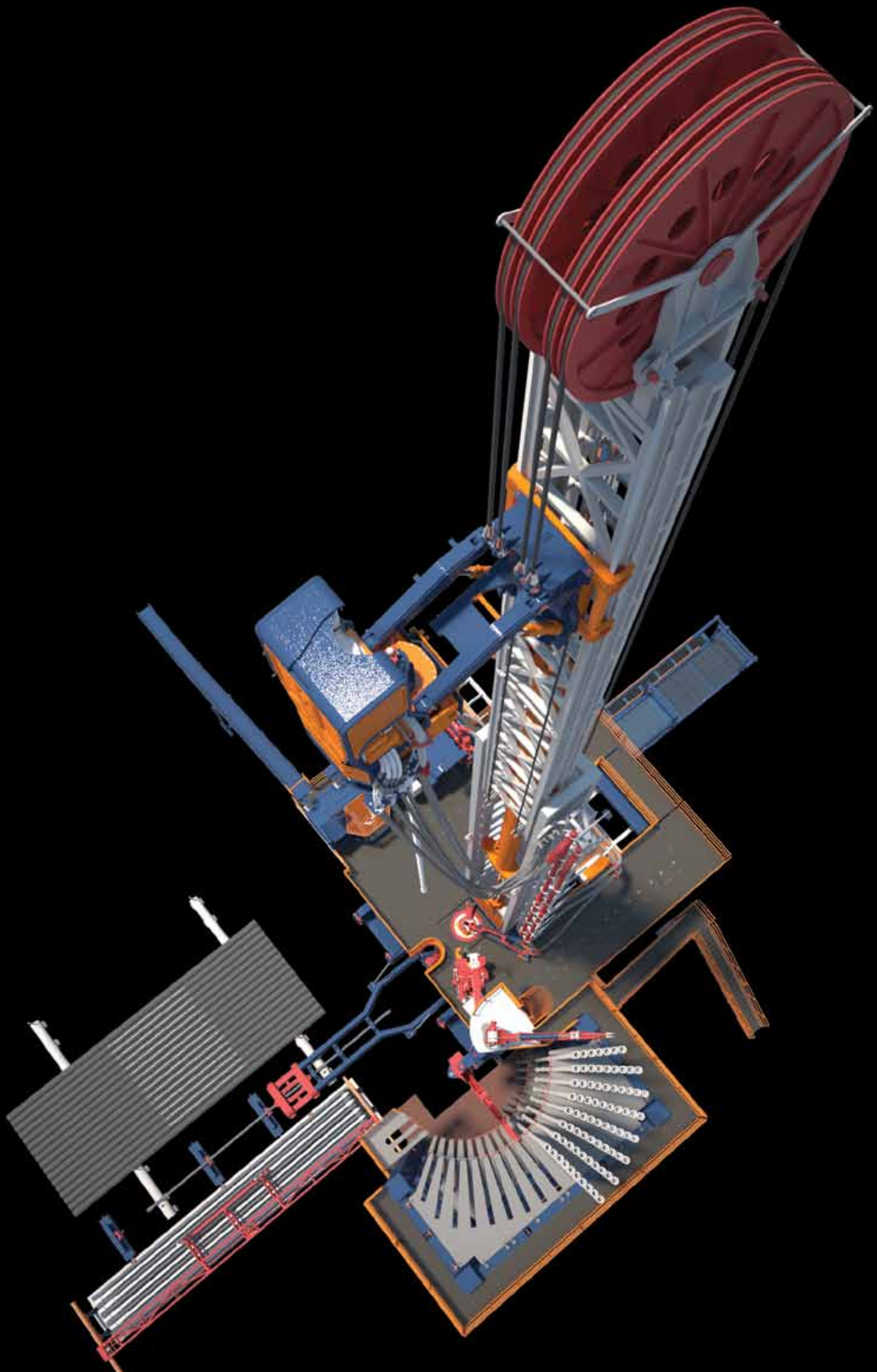
**DRILLMEC**  
DRILLING TECHNOLOGIES

# AHEAD Rigs



The core  
of drilling  
innovation





## Advanced **H**ydraulic **E**lectrical **A**utomated **D**riller

“ Since 1996, about two hundred Drillmec HH rigs have been working all around the world in many environmental and weather conditions, always delivering high safety and drilling efficiency.

On the basis of the HH Series experience and field results, Drillmec has developed a new generation of fully automated drilling rigs, named AHEAD (Advanced Hydraulic Electrical Automated Driller), designed to generate enhanced drilling performance at the highest HSE standards. ”





## HH Series - Hydraulic Drilling Rigs

E&P companies demand rig manufacturers to design drilling equipment that is increasingly safer for workers and the environment while improving performance.

Drillmec brings it all together in one drilling rig: the HH Series.

The HH Series combines the basis of hydraulic water well drilling rigs with advanced systems for pipe handling, transportation and rig-up for either onshore or offshore rigs ranging from 75 to 600 tons hook load capacity.

Today about two hundred HH Series rigs are successfully operating worldwide.

### HH Series features & benefits

TECHNOLOGY TO IMPROVE SAFETY  
ENVIRONMENT AND PERFORMANCE

RIG-MOUNTED EQUIPMENT  
TO IMPROVE EFFICIENCY

TELESCOPIC MAST TO  
INCREASE EFFICIENCY

REDUCED FOOTPRINT  
TO MINIMIZE IMPACT

PULL DOWN CAPACITY  
UP TO 40 TON

INTEGRATED TOP DRIVE TO  
IMPROVE PERFORMANCE

DRILL PIPE HANDLING  
TO ADD FLEXIBILITY

SOUND PROOF DESIGN  
TO REDUCE NOISE

DRY LOCATION DRILLING  
FOR ENVIRONMENTAL CARE





## AHEAD Series - Advanced Drilling Rigs

The AHEAD Series represents a new concept of fully automated drilling rigs. They are the results of a strong focus on innovation and continuous improvement that has always characterized Drillmec in the global market of drilling rigs.

Highest HSE standards and drilling efficiency are assured thanks to automation and to a complete drilling package able to ensure a continuous dialogue with the bottom hole.

### Technical Highlights

HOISTING SYSTEM BASED ON A  
HYDRAULIC PISTON IN TANDEM

SLING SHOT SUBSTRUCTURE

FULL AUTOMATIC OFF-LINE SYSTEM

DRILLING PACKAGE HoD  
(HEART OF DRILLING)





# Off-line System

AHEAD is equipped with a new fully automated Off-line System designed to make up and break out stands made of two API Range 3 DP (or three API Range 2 DP) out of rotary table, ensuring safety for personnel and a drastic NPT reduction. The Off-line System is able to handle even the casing joints, placed on special racks positioned at ground level.

## Off-line System Packages

- SLIDING CLAMP
- HORIZONTAL PIPE HANDLER
- POWER TONG WITH SPINNING SYSTEM

- VERTICAL PIPE HANDLER
- MODULAR VERTICAL PIPE RACK
- AUXILIARY CRANE





## HoD - Heart of Drilling System

The HoD System combines continuous circulation, high-resolution flow rate monitoring and anti-friction devices that allow to obtain highest HSE standard and enhanced drilling performance.

The HoD System is characterized by easy integration with other rig equipment and it is designed to allow personnel to move away from the rig floor and manage operation remotely.



### HoD main features

DRILLING THROUGH VERY NARROW PORE/  
FRACTURE PRESSURE WINDOW

IMPROVEMENT OF ROP THANKS TO  
CONTINUOUS CUTTINGS TRANSPORT AND  
MUD PROPERTIES OPTIMIZATION

CONSTANT PRESENCE OF A DOUBLE BARRIER  
ON THE WELL, THE MUD CIRCULATION AND  
THE BOPs

REDUCTION OF NPT (LOW TOTAL  
CONNECTION TIME)

OPTIMAL WORKING CONDITION FOR TOP  
DRIVE AND BOP

DRASTIC REDUCTION OF TIME AND PROJECT  
COST WITH AN EARLY FIELD PRODUCTION

## 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.



### Certifications

Drillmec SpA and Drillmec INC quality management systems are certified by API (American Petroleum Institute), DNV (DNV Business Assurance), RTN (Rostekhnadzor) 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



*AHEAD Series and HoD packages are designed to ensure highest safety standards and enhanced drilling efficiency, leading to a drastic reduction of time and cost per drilled foot.*



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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...

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