

Aker H-6e: key facts and figures

Bigger, deeper, faster

- *Aker Spitsbergen* and *Aker Barents* first two Aker H-6e (“e for extreme”) rigs
- World's most advanced drilling rigs
- Substantially larger and more powerful than other rigs
- Drilling powered by Aker Solutions' double RamRig™
- Exploring for new oil and gas deposits until 2040
- Can drill 10 000 metre wells in ultra (3 000 metre) deep waters in extreme conditions, worldwide
- Held in place by “dynamic positioning”
- Drilling area “walled in” for wind protection; all fluid storage heated to prevent freezing; living quarters, public spaces and offices air conditioned
- Trials demonstrate design copes very well with heavy seas
- First two rigs fully winterised for Polar conditions
- Storage capacity and space for extra equipment: operating for long periods without re-supply
- Can drill in waters 500m deeper than the height of Norway's highest mountain
- Starting from the seabed, can drill a well deeper than Everest is tall
- Faster than a Viking longboat at 11 knots
- Two pontoons per rig, each measuring 120m x 19.5m - larger than MS Kong Harald, a 691-passenger fjord cruiser
- Main deck area 90m x 70m, bigger than many soccer pitches

Green drilling

- Energy use optimised
- No harmful discharges to the sea
- Reduced emissions to the air
- Designed to use “green” chemicals (environmentally friendly lubricants etc)
- Effective waste handling including closed systems
- Onboard biological sewage treatment plant
- Redundant physical spillage barriers on all systems

Construction characteristics

- First drilling rigs built in Norway for almost 25 years
- Aker H-6e design builds on experience from successful H-3 and H-4 series
- Almost 40 “H series” rigs in operation, many for more than 30 years
- The world's most advanced drilling rigs, combining the best technologies available
- Hulls built in Dubai and towed to Stord, Norway, a six weeks-plus voyage
- Topsides construction, lifting and mating at Stord
- As many as 4 500 people from 40 nations involved simultaneously at Stord
- Project team had four official languages: Norwegian, English, Polish and Russian
- 300 000 litres of paint has been used