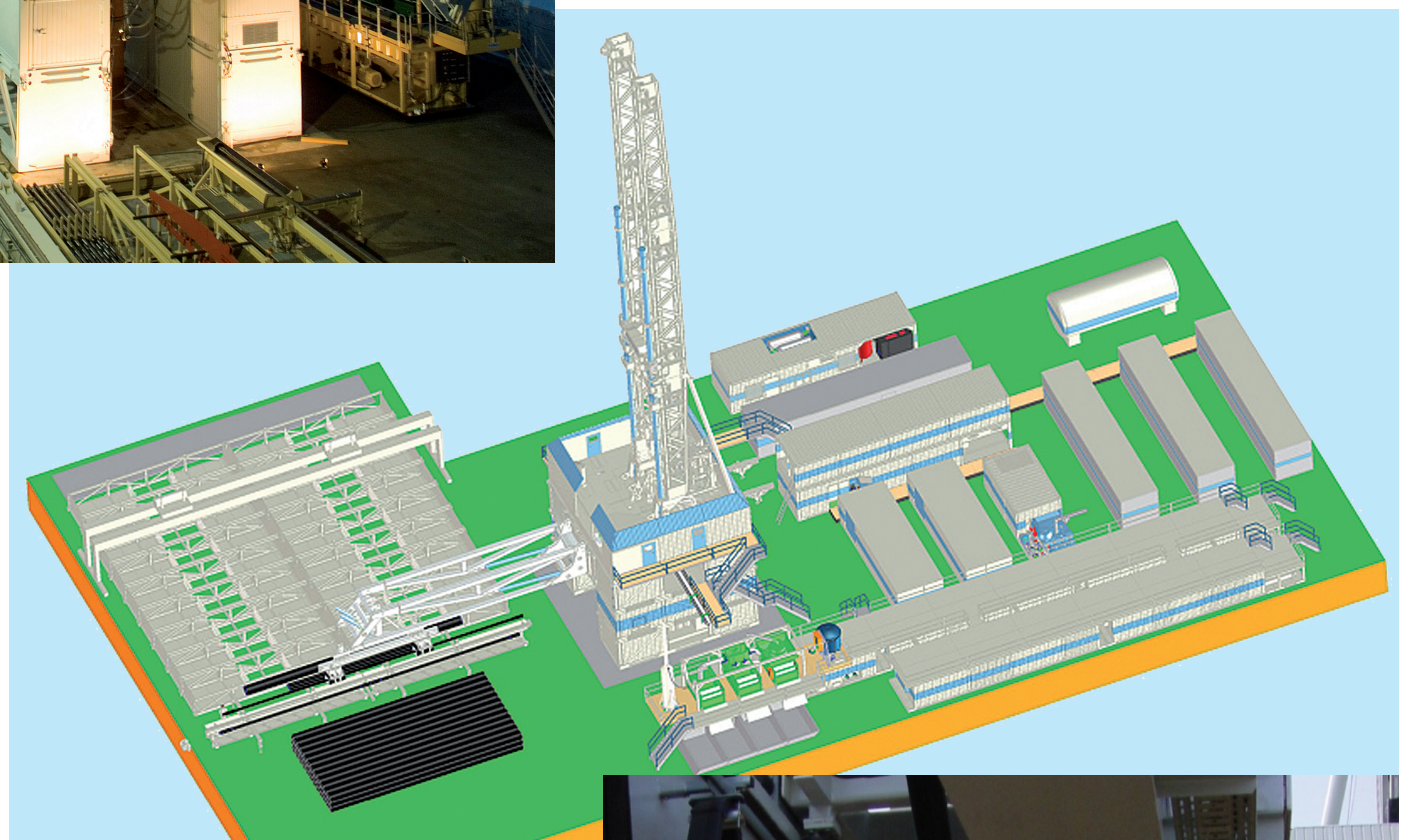
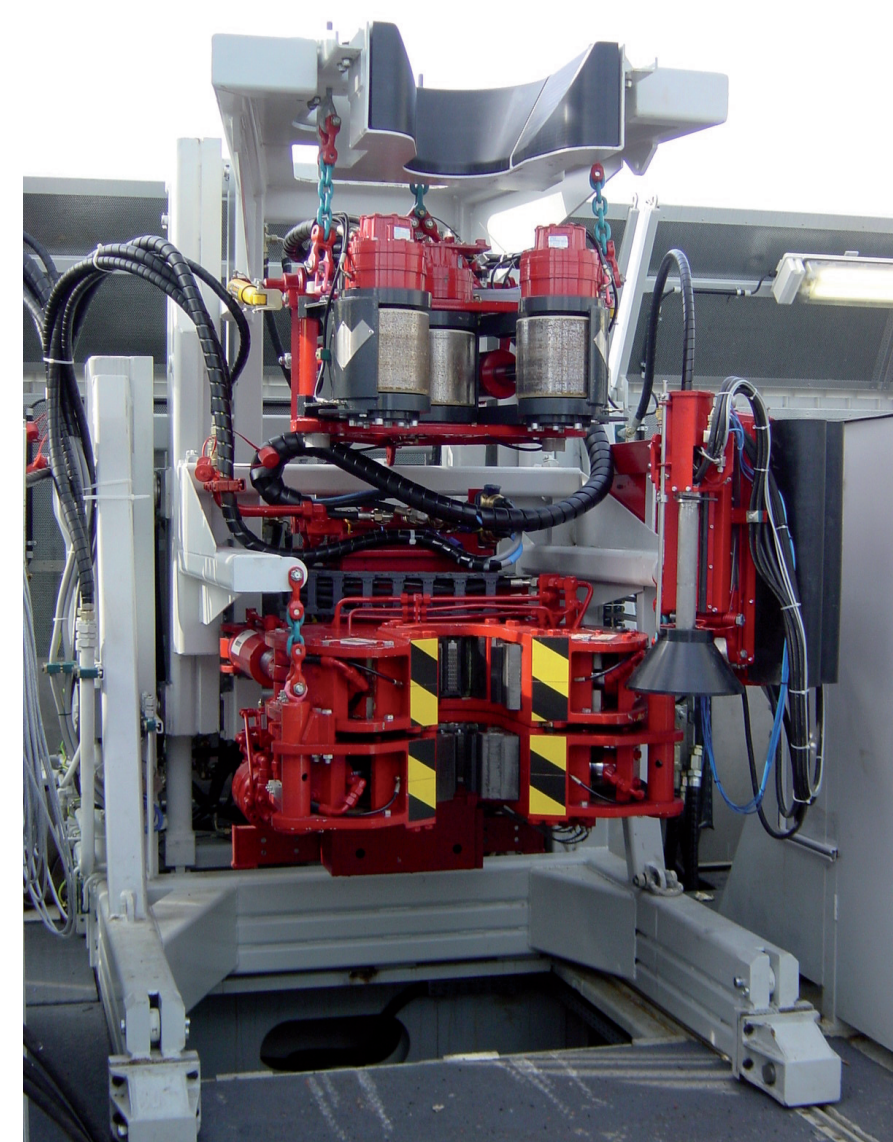


INNOVARIG

AN INNOVATIVE DRILL RIG FOR SCIENCE AND INDUSTRY



InnovaRig basics:

- Mast and Hoist System
 - hydraulically driven double cylinder system
 - 3500 kN hook load (~ 5000 m depth capacity)
- Handling System
 - semi-automatic hands-off-technology
 - combined pipe connector bridge, pipe handler and iron roughneck
- Four Drilling Techniques integrated
 - rotary drilling, standard coring, wireline coring and air drilling
 - two new top drive systems (rotary drilling & wireline coring)
- Mud System, Pumps and Tanks
 - adjustable to drilling procedure

InnovaRig for Science:

- Coring Technique
 - due to two top drive systems adjustable to all kinds of coring
 - smaller top drive can be attached to the standard top drive to avoid additional installations
 - integrated winch and pump for wireline operations
 - modified mud tank system
- Fast Logging
 - pre-installed storage for logging sondes
 - special equipment for the logging cable guidance
- Scientific Sampling
 - special collector for cutting sampling
 - new mud gas analysis device (mass spectrometry)
 - science van for field lab investigations
- Data Management
 - on site, online data acquisition



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