

HYDRAULIC JACKING

SYSTEMS & EQUIPMENT

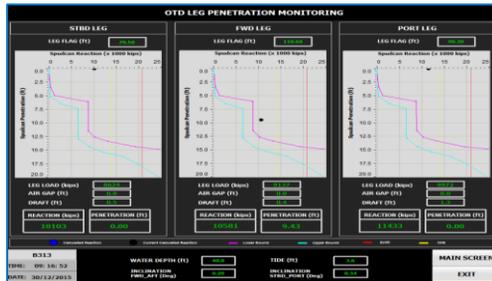


Keppel

**Offshore Technology
Development**

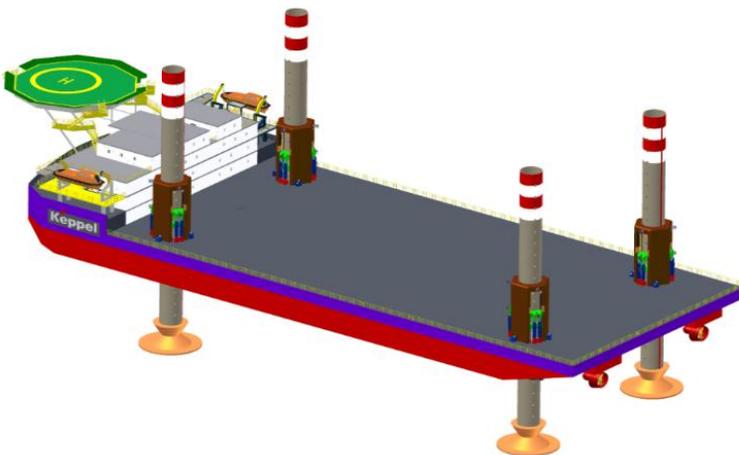
Our Core Capabilities

- Experienced in rig designs and jacking systems
- Delivered more than 100 vessels in operations worldwide
- Specialised in structural, offshore installation, geotechnical, naval architect, and hydrodynamic analysis



Design Engineering and Quality Control

- One stop solution for global structure and jacking system
- System simulation in virtual environment and scaled down in-house testing
- Reliable quality control system



PIN & YOKE HYDRAULIC JACKING SYSTEM



H1500 Jacking System	Specification
Jacking Capacity per Leg	1,500 MT
Preload Capacity per Leg	1,615 MT
Holding Capacity per Leg	2,995 MT
Leg Jacking Speed	0.2 m/min at working stroke
Hull Jacking Speed	0.1 m/min at working stroke
Number of Jacking Cylinders per Leg	4
Classification	ABS



H2000 Continuous Jacking System	Specification
Jacking Capacity per Leg	2,000 MT
Preload Capacity per Leg	4,000 MT
Jacking Speed	0.9 m/min continuous
Number of Jacking Cylinders per Leg	4
Classification	ABS

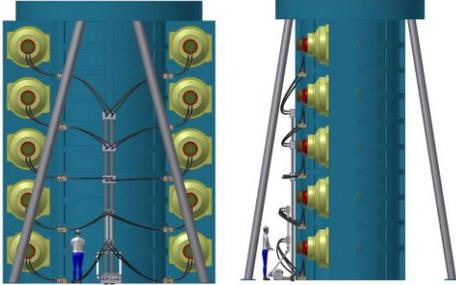


H4000 Jacking System	Specification
Jacking Capacity per Leg	4,000 MT
Preload Capacity per Leg	5,152 MT
Holding Capacity per Leg	5,676 MT
Leg Jacking Speed	0.2 m/min at working stroke
Hull Jacking Speed	0.1 m/min at working stroke
Number of Jacking Cylinders per Leg	8
Classification	ABS

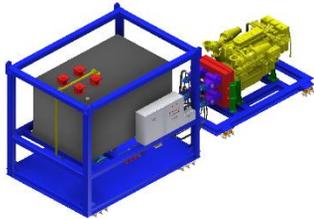
PRODUCT KEY FEATURES

- **Cost Effective** pin and yoke jacking solution
- **Patented** fixation mechanism allowing removal of jacking system after operation is completed
- **Higher** holding capacity with both fixation and jacking engaged
- **Customizable** to vessel's lifting requirement
- **Modularly** designed to facilitate removal and installation of jacking system on multiple platforms

500HV RACK & PINION HYDRAULIC JACKING SYSTEM



Jacking Units Fitted on a Tubular



Hydraulic Power Unit

500HV Jacking System	Specification
Normal Jacking	475 kips/pinion
Maximum Jacking	551 kips/pinion
Normal Holding Load	810 kips/pinion
Maximum Storm Holding Load	1,077 kips/pinion
Leg Jacking Speed	0 - 6.0 feet/min
Hull Jacking Speed	0 - 3.0 feet/min

1000HV RACK & PINION HYDRAULIC JACKING SYSTEM



Jacking Units on a Jack Case



Retrofit Solution

1000HV Jacking System	Specification
Normal Jacking	1,000 kips/pinion
Maximum Jacking	1,300 kips/pinion
Normal Holding Load	1,402 kips/unit
Preload Holding Load	1,869 kips/unit
Hull Jacking Speed	0 - 0.33 feet/min



Jacking Central Control Console

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