

## MEETING GLOBAL STANDARDS SINCE 1975

Founded in 1975, PH Hydraulics & Engineering is one of Asia's leading offshore oil and gas equipment manufacturers.

From our corporate offices and manufacturing facilities in Singapore, Malaysia and Thailand, PH is committed to deliver total solutions in electro-hydraulic systems that meet global standards.

Our group's dedication in delivering total solutions have strengthen our position as a leading Drill Rig Deck Equipment manufacturer in Asia.

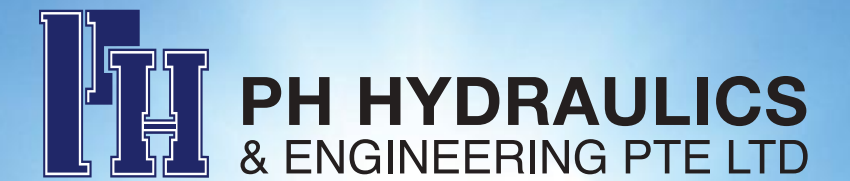
PH's total solution will guide you through every aspect of your equipment from detailed engineering design to fabricating, testing and commissioning. We have the engineering capability and experience to deliver complete packages for Drill Rig Deck Equipment.



For more information, please contact us at:

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## Drill Rig Deck Equipment

Skidding & Cantilever • Cantilever/Drill-floor Skidding System  
• Conductor Tensioning Unit



Designed, engineered and delivered by  
**Asia's Leading Offshore Oil & Gas  
Equipment Manufacturer**

## DRILL RIG DECK EQUIPMENT

PH Hydraulics is Asia's leading Drill Rig deck equipment manufacturer. A drill rig is equipped with Anchor Winches, Conductor Tensioning System and Cantilever Skidding System. At PH Hydraulics, we are able to design and customize solutions to meet the different requirements of each rig.

### Conductor Tensioning Platform & Conductor Tensioning Unit

Due to stresses imposed upon the conductor string by environmental conditions and deep water drilling operations, a conductor tensioning system is employed to provide a primary vertical tension to the conductor string.

The conductor tensioning unit (CTU) is mounted between support rails spanning the conductor tensioning platform (CTP) located below the cantilever drill deck. A secondary vertical tensioning system compensates for the BOP stack loading on the intermediate string.



Conductor Tensioning Platform c/w Hydraulic Sliding Panels

### Skidding System

The jack up drilling unit shall be equipped with Skidding System. This skidding system consists of one cantilever skidding and one drill floor skidding.

The cantilever skidding is to perform the longitudinal movements of the cantilever from store area to working area. The drill floor skidding is to perform transverse movements of the drill floor as the drilling working requirement.



Skidding & Cantilever System



Cantilever/Drill Floor Skidding System



Locking Claws



Drillfloor Lifting Cylinder

### CONDUCTOR TENSIONING SYSTEM TRACK RECORD

Project Completion	Project Description	Customer/End User
2005	200 Ton Conductor Tensioner Unit	ICON Engrg
2005	200 Ton Conductor Tensioner Unit for Okjfell	ICON Engrg
2011	JU3000 Noble Regina Allen / Mick O' Brien / Houston Colbert / Sam Turner / Tom Prosser / Sam Hartley Conductor Tensioning Unit System	Jurong Shipyard
2011	JU 2000E West Tucana / West Castor Conductor Tensioning Unit System	Jurong Shipyard
2012	Conductor Tensioning System for CMHI CJ46 Rig Hull CMHI-118-1	Jason Offshore
2012	Conductor Tensioning System for CMHI CJ46 Rig Hull CMHI-118-2	Jason Offshore
2012	Conductor Tensioning System for B329	Keppel FELS
2012	Conductor Tensioning System for B330	Keppel FELS
2012	Conductor Tensioning System for B346	Keppel FELS
2012	Conductor Tensioning System for CMHI CJ46 Rig Hull CMHI-128-1	Jason Offshore
2012	Conductor Tensioning System for CMHI CJ46 Rig Hull CMHI-128-2	Jason Offshore
2013	Conductor Tensioning System for CMHI CJ46 Rig Hull CMHI-129-1	Jason Offshore
2013	Conductor Tensioning System for CMHI CJ46 Rig Hull CMHI-129-2	Jason Offshore
2013	Conductor Tensioning System for CIMC JU2000	Jason Offshore
2013	Conductor Tensioning System for CMHI JU2000E Rig Hull CMHI-114-1	Jason Offshore
2013	Conductor Tensioning System for CMHI JU2000E Rig Hull CMHI-114-2	Jason Offshore
2013	Conductor Tensioning System for CMHI CJ50 Rig Hull CMHI-131-1	Jason Offshore
2013	Conductor Tensioning System for CMHI CJ50 Rig Hull CMHI-131-2	Jason Offshore
2014	Conductor Tensioning System for CMHI CJ46 Rig Hull CMHI-136-1	Jason Offshore
2014	Conductor Tensioning System for CMHI CJ46 Rig Hull CMHI-139-1	Jason Offshore
2014	Conductor Tensioning System for CMHI CJ46 Rig Hull CMHI-139-2	Jason Offshore
2014	Conductor Tensioning System for CMHI CJ46 Rig Hull CMHI-143-1	Jason Offshore
2014	Conductor Tensioning System for CMHI CJ46 Rig Hull CMHI-143-2	Jason Offshore

### SKIDDING SYSTEM TRACK RECORD

Project Completion	Project Description	Customer/End User
2007	JU2000E2 / JU2000E3 / JU2000E5 Skidding System	Dalian New Shipbuilding Heavy Industries
2007	13 1/2" Bore Drill Floor & Skidding Cylinder T15 Deepwater Drilling Inc	Transocean Offshore
2007	Cantilever / Drill Floor Cylinder	Koastal Industries (For Tam Dao)
2008	16T Skidding Cylinder & Gripper Jack	CFE Engineers Asia
2008	L780 Cantilever/Drill Floor Skidding System for CPOE L780-1 / CPOE L780-2	China National Petroleum Company
2008	16T SKIDDING CYL & GRIPPER JACK + CP	CFE Engineers Asia
2009	Super M2 Cantilever/ Drill Floor Skidding System	Maritime Industrial Services
2009	JU2000A 308 / 309 Skidding system	Friede & Goldman Marketing B.V
2009	B304 / B299 Cantilever / Drill Floor Skidding System	Keppel FELS
2009	4x500T Skidding Jack System	NPCC
2010	B316 Masterskid & Drillfloor Skidding System	Keppel FELS (For PV SSST 3600E)
2011	B322 / B323 / B326 / B327 / B329 / B330 / B333 / B346 Cantilever Skidding System	Keppel FELS
2011	JU2000 E7 / E8 / E9 / E10 Cantilever and Drillfloor Skidding System	Jason Offshore
2011	JU3000 Noble Regina Allen / Mick O' Brien / Houston Colbert / Sam Turner / Tom Prosser / Sam Hartley Cantilever and Drillfloor Skidding System	Jurong Shipyard
2011	West Tucana / West Castor Cantilever and Drillfloor Skidding System	Jurong Shipyard
2012	H267-CIMS YRS Cantilever & Drillfloor Skidding System	Jason Offshore
2012	H1288-SWS / H1289-SWS Cantilever & Drillfloor Skidding System	Jason Offshore
2012	SWS Cantilever & Drillfloor Skidding System (CPOE)	Jason Offshore
2012	BOP Tension Jack System N407 / N408	Jason Offshore
2012	4 x 600Ton Launch skidding mechanism for 18,000 Ton Launch Barge	Jason Offshore
2013	DSIC JU2000E-13 / JU2000E-14 / JU2000E-15 / JU2000E-16 / JU2000E-17 / JU2000E-18 / JU2000E-19 / JU2000E-20 / JU2000E-21 Cantilever & Drill floor Skidding System	Jason Offshore
2013	DSIC JU2000E H1285 / H1348 Cantilever & Drill floor Skidding System	Jason Offshore
2013	DSIC JU2000E CMHI 1141 / 1142 Cantilever & Drill floor Skidding System	Jason Offshore