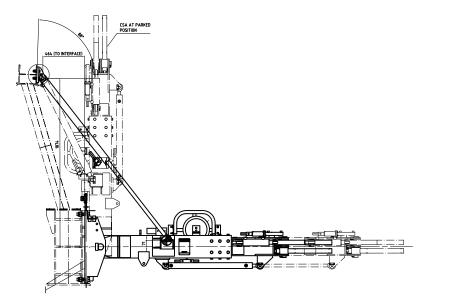
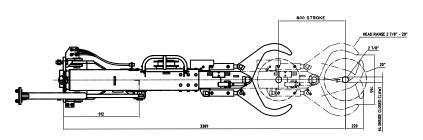
Technical Marketing Sheet Stabber Arms

Casing Stabbing Arm

The Casing Stabbing Arm (CSA) is mounted on the derrick structure at the required height above the drillfloor. The purpose of the CSA is to bring tubular into position in the well center. The CSA is made of square steel profiles. An external hydraulic cylinder mounted underneath the telescopic boxes provides telescoping. There is a claw at the front tip of each telescope arm. The telescope arm can be tilted to the upright position. The CSA is operated from a control stand located nearby the CSA.

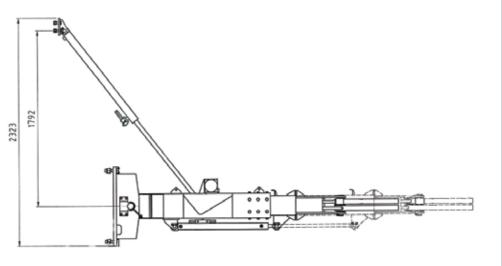


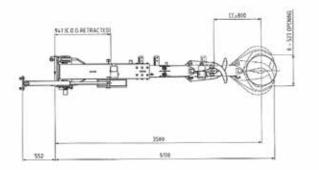


Technical specifications	5	
DESIGN DATA		
Service		Vertical stabbing and guiding tubular
Area classification		IEC Zone 1
Design standards		FEM "rules for the design of hoisting appliances"
Design temperature	°C	-20 to +45
Weight, dry	kg	750
Weight, operation	kg	780
PERFORMANCE DATA		
Guide head tubular reach	mm (in)	73 - 508 (2 1/8"- 20")
Reach	mm	2,589 - 3,389
Telescope length	mm	800
Tilt angle	degrees	90
Maximum head load	kN	9
UTILITY CONSUMPTION		
Hydraulic flow rate	l/min.	25
Hydraulic oil pressure, min.	bar	180
Hydraulic oil pressure, max.	bar	207
Power	W	31

Standbuilding Guide Arm - Hydraracker

The Standbuilding guide arm - Hydraracker (SB-GA-HR) is mounted on the derrick structure approximately 9.3 meters above the drill floor. The purpose of the SB-GA-HR is to stabilize pipe stands during stand building when the Hydraracker changes gripper position. The SB-GA-HR can also be designed for stabbing operations. It has a telescopic arm with guide claws mounted at the tip. The SB-GA-HR is normally operated from the driller's cabin, but for maintenance and emergency operations it should be operated from the hydraulic control panel. It is parked in a vertical position to avoid collisions with other drilling equipment.



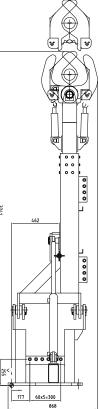


Technical specifications

DESIGN DATA		
Service		Guiding and stabbing operations during pipe handling
Area classification		IEC Zone 1
Design standards		FEM "rules for the design of hoisting appliances"
Design temperature	°C	-20 to +45
Weight, dry	kg	700
Weight hydraulic control panel, dry	kg	170
PERFORMANCE DATA		
Claw range	mm (in.)	90 - 508 (3 1⁄2"- 20")
Reach	mm	3,500
Telescope length	mm	800
Tilt angle	degrees	0-90
Maximum head load	kN	9
UTILITY CONSUMPTION		
Hydraulic flow rate	l/min.	25
Hydraulic oil pressure, min.	bar	180
Hydraulic oil pressure, max.	bar	207
Power	W	31

Standbuilding 3-Guide Arm System

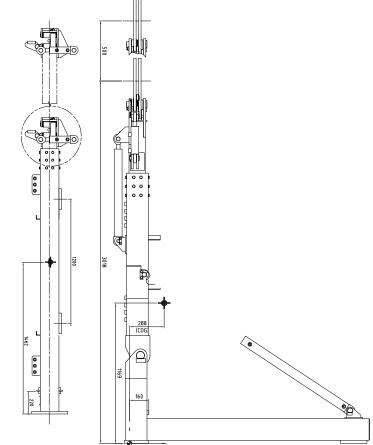
The standbuilding 3-guide arm system consists of a lower and upper telescopic guide arm and guide frame. The guide frame is mounted in the derrick structure at the required height above the drill floor. The purpose of the lower telescopic guide arm is to guide the upper part of a double pipe during make-up. The purpose of the upper telescopic arm is to guide the upper part of a triple stand during make-up. The guide frame's purpose is to guide the wire when handling stands. The standbuilding 3-guide arm system is operated from the control stand located on the drill floor.



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IGN DATA		
ice		Handling and guiding of drill pipes during stand- building in a derrick
classification		Zone 2
gn standards		FEM "rules for the design of hoisting appliances"
gn temperature	°C	-20 to +45
ght lower telescopic guide arm	kg	470
ght upper telescopic guide arm	kg	470
ght guide frame	kg	260
ght control valve unit, dry	kg	130
ght control valve unit, operation	kg	130
FORMANCE DATA		
ular	mm. (in.)	90 - 168 (3 ½"- 6 %")
er telescopic guide arm		Double stand (within tube dimension range)
er telescopic guide arm		Triple stand (within tube dimension range)
le frame		Single, double and triple stand (within tube dimension range)
scope length	mm	800
ITY CONSUMPTION		
raulic oil consumption	l/min.	50
raulic oil pressure, min.	bar	80
raulic oil pressure, max.	bar	207