

**FOR SALE**

**SOILMEC SR45**

(2 Line quick change CFA & Rotary modes).

Year 2016 Hours 2401

P.O.A



**NORTH  
EQUIPMENT LTD**





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## Technical Specifications

### **UNDERCARRIAGE SIDE FRAMES 2550/3750 mm; 600 mm SHOES**

1

Undercarriage, extendable from 2550 mm to 3750mm by means of hydraulic cylinders, with 600 mm wide track shoes. Triple grouser track shoes.

Complete of mechanical attachment for casing oscillator.

Ground pressure:	0.1 MPa
Overall length:	4740 mm
Centre idler to Centre sprocket:	3910 mm
Chain pitch:	190 mm
Traction force:	386 kN
Grade ability:	75 %
Travelling speed:	2.0 km/h

### **UPPER STRUCTURE**

1

Mounted on slew ring for a 360° rotation. Easily accessible canopy for maintenance and inspection. Hydraulic system. Sound-proofed operator cab, large top, front and side windscreen, fully adjustable seat. Pedal for main winch rope release. Leverages and controls within the operator's easy reach. Controls with graphical symbols recalling each operation.

Radio CD kit for cabin.

Air conditioning system for operator cab.

Automatic centralized greasing system.

Kit for automatic alignment on drilling axe.

Side walkways retractable and handrail on rooftop.

Complete with counterweight 10.5 t total weight.

Width:	2550 mm
Tail swing radius:	3810 mm
Slewing speed:	2.5 rpm
Fuel tank:	380 l

### **Drilling Mate System (DMS)**

On 12" color touch screen for monitoring and self-diagnostic of base unit main groups:

- control of all electrically actuated functions
- fault checking and report
- interfacing with Diesel engine board
- pump pressures
- mast verticality
- drilling depth
- rotary speed and pressure
- crowd pressure
- graphic drilling charts
- programmed rig maintenance schedule

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### *Engine unit CUMMINS QSB6.7*

CUMMINS QSB 6.7, US EPA Tier 4f, turbocharged and charge air cooled.

rated power: 201 kW (269 hp) @ 2000 rpm

Displacement: 6700 cm<sup>3</sup>

### *Hydraulic system*

N. 3 variable displacement axial piston pumps for closed circuits; n.1 for front winch, n.1 for rear winch, n.1 for swing system.

N. 2 variable displacement axial piston pumps for open circuits, both for travelling.

Main pump: 2x214 l/min  
Working pressure: 30.5 MPa  
Third pump: 120 l/min  
Working pressure: 32 MPa

### **MAIN WINCH SW160 TYPE, C/W DEPTHMETER**

1

Controlled descent type fitted with grooved drum suitable for 30 mm rope complete with rope guiding roller for correct winding of rope.

Line pull in first layer: 165 kN  
Max speed: 78 m/min  
Rope diameter: 24 mm  
Useful rope length with 1/2 full layers: 39/86 m

### **SERVICE WINCH SW60 TYPE**

1

Controlled descent type. Grooved drum for 22mm rope, 2 rope layers.

Nominal static line pull in the first layer: 65 kN  
Max speed: 81 m/min  
Rope diameter: 18 mm  
Useful rope length with 1/2/3 full layers: 16/37/60 m

### **CONNECTION BETWEEN MAST AND UPPER STRUCTURE**

1

The peculiar geometry of the kinematic unit makes it possible to change the working radius of the machine with the mast held in vertical position. This simplifies the repositioning of the drilling equipment.

Complete with positioning and support hinged arm, triangular support, hydraulic jacks and connection rods frame, hydraulic hoses.

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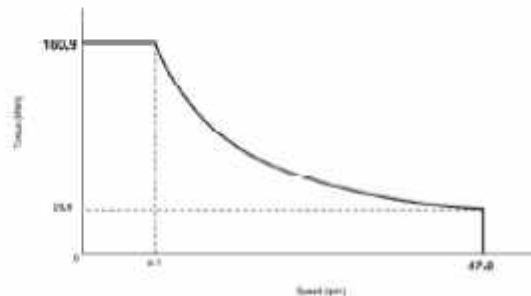
Complete with positioning and support hinged arm, triangular support, hydraulic jacks and connection rods frame, hydraulic hoses.

### ROTARY UNIT SUITABLE FOR 365 MM O.D. KELLY BAR C/W SPIN-OFF

1

SLIDING ALONG THE MAST BY MEANS OF A SLIDE PAD MOUNTED CRADLE; C/W VARIABLE DISPLACEMENT HYDRAULIC MOTOR, FIXED DISPLACEMENT MOTOR FOR SPIN-OFF AND EPICYCLICAL REDUCTION GEAR.

**MAX THEORETHICAL TORQUE: 185 kNM**  
**RATED THEORETHICAL TORQUE: 161 kNM**  
**MAXIMUM DRILLING SPEED: 47 RPM**  
**SPIN-OFF SPEED: 146 RPM**



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### MAST GROUP C/W INCLINOMETER

1

THE MAIN FEATURE OF THE MAST IS TO ALLOW THE SLIDING OF THE ROTARY TABLE AND THE KELLY GUIDE HEAD. ITS SPECIAL STRUCTURE MAKES IT POSSIBLE TO OPERATE THE ROTARY TABLE TO THE MAXIMUM TORQUE REGARDLESS OF ITS POSITION ALONG THE MAST.

### ROPE FOR SERVICE WINCH

Including a 18 mm diameter not rotating rope for main winch in 1<sup>st</sup> layer.  
Max depth = 9m under the ground level.

1

### CE KIT

Video camera kit, handrails and remote tracking control included.

1

## ITEM A.1 KIT LDP IN PULL-DOWN WINCH VERSION

### CATHEAD FOR KELLY BAR VERSION FOR CROWD WINCH SYSTEM

1

In Kelly configuration, this component is the upper extremity of the mast. It contains the pulleys of the main and service winches. Suitable only for both pull-down winch.

### PULL-DOWN SYSTEM BY WINCH: 14500MM STROKE

1

Nominal pull down force: 240kN  
Nominal pull up force: 240kN  
Speed up 28 m/min  
Speed down 28 m/min

### COMPLETION KIT FOR WCS VERSION

1

### ROPE 1 FOR PULL-DOWN SYSTEM

1

### ROPE 2 FOR PULL-DOWN SYSTEM

1

### MAST FOOT ELEMENT C/W PAD

1

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ITEM A	LDP KIT	
	<b>ROPE ASSEMBLY FOR MAIN WINCH, DIAM 24 MM, 2<sup>ND</sup> LAYER</b> Including a 24 mm diameter rope for main winch in 2nd layer. Max. depth: 49m + Kelly Length + Tool Length	1
	<b>FLANGE FOR CASING DRIVING, DIAM 1300MM</b> Welded to the casing driver and moved by the cardan joint. (Smaller diameter available on request)	1
	<b>CARDAN JOINT</b> Universal joint connecting the rotary sleeve to the casing driving flange.	1
	<b>KELLY GUIDE</b> Fixed on the top of external Kelly element by means of a rolling bearing.	1
	<b>KELLY SWIVEL</b> To connect the main winch rope to the kelly.	1
	<b>KIT FOR FASTENING KELLY BAR DURING TRANSPORT (KELLYBAR &lt; 12M)</b>	1

ITEM A.1	TELESCOPIC KELLY BAR FOR BORED PILE VERSION	
	<b>TELESCOPIC KELLY BAR Ø 355MM</b>  Mech. locking type 4x9m Max drilling depth 31.6m Stub. 150mm	

ITEM B	OPTIONAL ITEMS	
	<b>HYDRAULIC MAST FOLDING KIT</b>	1
	<b>AUTOMATIC MAST RAISING KIT</b>	1

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**Soilmec SR45 Hydraulic Drilling Rig**  
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