

Note: The disclaimer on the first worksheet applies to all tables in this workbook

Rig Manufacturer :	<b>SOILMEC</b>	Rig Type :	<b>SR-30 (kelly mode)</b>
Completed by:	<b>Bruno Bettini SOILMEC SpA</b>	Operation mode:	<b>KELLY (cylinder crowd)</b>
	<b>28/04/2008</b>	Checked by:	

Main Components :

	Item	Mass (kg)	Moment arm (m)	Moment (kNm)
UPPER WORKS	Mast assembly & rotary head	6505	2.83	180.78
	Mast rams / kinematism	2815	1.61	44.43
				0.00
				0.00
				0.00
				0.00
				0.00
LOWER WORKS	Undercarriage	10700	0.00	0.00
	Slewing mainframe	9000	-1.00	-88.29
				0.00
				0.00
				0.00
ROPE / KELLY / CHAIN / SUSPENDED EQUIPMENT	Kelly bar (4x11m locking type)	4300	3.50	147.64
	Tool	1500	3.50	51.50
	---	0	0.00	0.00
				0.00
COUNT.	Counterweight	3500	-3.60	-123.61
				0.00
				0.00
OTHER	Other	0	0.00	0.00
				0.00
				0.00

Main Components Totals

UPPER WORKS	9320	2.46	225.21
LOWER WORKS	19700	-0.46	-88.29
ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT	5800	3.50	199.14
COUNTERWEIGHT	3500	-3.60	-123.61
OTHER	0	0.00	0.00
<b>TOTAL</b>	<b>38320</b>	<b>0.57</b>	<b>212.45</b>

Tracks

Track bearing length (m)	3.71	
Track pad width (m)	0.6	
Distance between centrelines of tracks (m)	3.10	

Front Foot Pads

Pad Bearing Area (m <sup>2</sup> )	#N/D	Actual Dimensions	#N/D
Pad Maximum Loading (kN)	#N/D	Actual Shape	#N/D
Pad Moment Arm (m)	#N/D		

Rear Foot Pads

Pad Bearing Area (m <sup>2</sup> )	#N/D	Actual Dimensions	#N/D
Pad Maximum Loading (kN)	#N/D	Actual Shape	#N/D
Pad Moment Arm (m)	#N/D		

Forces

Maximum Extraction Force (kN)	135.00		
Maximum Penetration Force (kN)	124.00		
Maximum Auxillary Force (kN)	65.00	Auxillary Force Moment Arm (m)	4.25

Notes

Max working radius 3,50m.  
Weight of kelly bar and tool may vary.  
It's recommended that weight of kelly bar + tool + soil does not exceed 7500kg for good drilling performance.

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