

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

Rig Manufacturer :	<b>SOILMEC</b>	Rig Type :	<b>R-210</b>
Completed by:	<b>Bruno Bettini SOILMEC SpA</b>	Operation mode:	<b>Kelly</b>
		Checked by:	

Main Components :

	Item	Mass (kg)	Moment arm (m)	Moment (kNm)
UPPER WORKS	Mast assembly & rotary head	4000	2.72	106.89
	Mast rams / kinematism	2200	1.52	32.76
				0.00
				0.00
				0.00
				0.00
				0.00
LOWER WORKS	Undercarriage	7900	0.05	3.87
	Slewing mainframe	6550	-0.80	-51.40
				0.00
				0.00
				0.00
ROPE / KELLY / CHAIN / SUSPENDED EQUIPMENT	Kelly bar	3000	3.25	95.65
	Tool	1250	3.25	39.85
	---	0	0.00	0.00
				0.00
COUNT.	CWT	2650	-2.90	-75.39
				0.00
				0.00
OTHER	Other	0	0.00	0.00
				0.00

Main Components Totals

UPPER WORKS	6200	2.30	139.65
LOWER WORKS	14450	-0.34	-47.53
ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT	4250	3.25	135.50
COUNTERWEIGHT	2650	-2.90	-75.39
OTHER	0	0.00	0.00
<b>TOTAL</b>	<b>27550</b>	<b>0.56</b>	<b>152.23</b>

Tracks

Track bearing length (m)	3.39	
Track pad width (m)	0.6	
Distance between centrelines of tracks (m)	2.80	

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)	124.00		
Maximum Penetration Force (kN)	68.00		
Maximum Auxillary Force (kN)	41.00	Auxillary Force Moment Arm (m)	4.01

Notes

Max working radius 3.25m.

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