

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

Rig Manufacturer :	SOILMEC	Rig Type :	SR20.141-015A s/n 4420
Completed by:	E. Amadori SOILMEC SpA	Operation mode:	CFA
	31/08/2015	Checked by:	M. Amadori SM SpA

Main Components :

	Item	Mass (kg)	Moment arm (m)	Moment (kNm)
UPPER WORKS	Mast assembly	4545	2,56	114,21
	Mast rams / kinematism	2200	1,49	32,20
				0,00
				0,00
				0,00
				0,00
LOWER WORKS	Undercarriage	8000	0,00	0,00
	Slewing mainframe	7200	-1,00	-70,63
				0,00
				0,00
ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT	12.5 m long auger string	2300	3,25	73,33
	6m auger extension	1400	3,25	44,64
	rotary table	2220	3,00	65,33
	concrete hose	740	3,85	27,95
				0,00
COUNT.	CWT	2500	-3,05	-74,80
				0,00
OTHER	Other	0	0,00	0,00
				0,00
				0,00

Main Components Totals

UPPER WORKS	6745	2,21	146,40
LOWER WORKS	15200	-0,47	-70,63
ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT	6660	3,23	211,25
COUNTERWEIGHT	2500	-3,05	-74,80
OTHER	0	0,00	0,00
<b>TOTAL</b>	<b>31105</b>	<b>0,70</b>	<b>212,22</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> )	1,00	Actual Dimensions	800mm x 1250mm
Pad Maximum Loading (kN)	340,00	Actual Shape	rectangle
Pad Moment Arm (m)	2,40		

Rear Foot Pads

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

Forces

Maximum Extraction Force (kN)	280,00		
Maximum Penetration Force (kN)	-		
Maximum Auxillary Force (kN)	56,00	Auxillary Force Moment Arm (m)	3,87

Notes

Max working radius 3,25 m.  
Vertical mast.  
Front weight (auger, auger extension and auger cleaner, if equipped) should not exceed 3700 kg.  
Machine configured with 6 m auger extension.

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