

Schedule of Piling Rig Component Weights, Dimensions, Forces and Pressures

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

Rig Manufacturer :	BSP	Rig Type & Serial No.	JX25	JX010
Operation mode:	With guided pile on vertical leader	Date:	07/02/2017	
Completed by:	R Storey	Checked by:	Blank	

Main Components - Slewing:

Item	Mass (kg)	Weight (kN)	X - Coordinate	Y - Coordinate	Moment Mx (kNm)	Moment My (kNm)
Slewing Components Totals/Resultant (with θ=0)						
UPPER WORKS	2,931	29	0.00	2.37	-68	0
LOWER WORKS	7,077	69	0.00	-0.21	15	0
SUSPENDED EQUIPMENT CONNECTED TO CROWD SYSTEM	0	0	0.00	0.00	0	0
COUNTERWEIGHT	3,700	36	0.00	-2.50	91	0
OTHER	6,112	60	0.00	3.14	-188	0
TOTAL/RESULTANT (with θ=0)	19,820	194	0.00	0.78	-151	0

Foot Pads - Slewing :

Description (Forces must be -ve)	Bearing Area	Max. Pad Loading	X - Coordinate	Y - Coordinate	Actual Shape	Actual Dimension
	m ²	kN	m	m		
Front Pad 1	0.00	0	0.00	0.00	None	None
Front Pad 2	0.00	0.00	0.00	0.00	None	None
Rear Pad 1	0.00	0.00	0.00	0.00	None	None
Rear Pad 2	0.00	0.00	0.00	0.00	None	None

Forces - Slewing

	Force	X - Coordinate	Y - Coordinate	
	kN	m	m	
Maximum Extraction Force (kN)	0	0.00	0.00	Must be inline with suspended equip't.
Maximum Penetration Force (kN)	0	0.00	0.00	-ve Must be inline with suspended equip't.
Maximum Auxillary Force (kN)	0	0.00	0.00	

Main Components - Non-Slewing:

Item	Mass (kg)	Weight (kN)	X - Coordinate	Y - Coordinate	Moment Mx (kNm)	Moment My (kNm)
Lower Works Non-Slewing (undercarriage/tracks etc)	Tracks & Undercarriage	7538	74	0.00	-0.09	7
				0.00	0.00	
				0.00	0.00	
TOTAL/RESULTANT (with θ=0)	7,538	74	0.00	-0.09	7	0
TOTAL RIG MASS	27,358					

Front Foot Pads - Non-Slewing

Description	Bearing Area	Max. Pad Loading	X - Coordinate	Y - Coordinate	Actual Shape	Actual Dimension
	m ²	kN	m	m		
Front Pad 1						
Front Pad 2						
Rear Pad 1						
Rear Pad 2						

Tracks		Slewing	
Track bearing length (m)	3.37	Can the Rig Slew?	YES
Track pad width (m)	0.70		
Distance between centrelines of tracks (m)	2.17		

MODE	Pressure Summary for Platform Design (unfactored)			BRE LOAD CASE (1 or 2)	Eccentricity Index		Winch Forces
	Equiv. Track Length (m)	Equiv. Track Width (m)	Equiv. Uniform Bearing Pressure, q _{ea} (kPa)		Eccentricity index - X direction (sideways)	Eccentricity index - Y direction (forwards/backwards)	
Standing	2.52	0.70	104	1	0.52	0.35	0
Travelling	2.52	0.70	104	1	0.52	0.35	0
Handling	2.52	0.70	104	1	0.52	0.35	0
Penetrating	2.52	0.70	104	2	0.52	0.35	0
Extracting	2.52	0.70	104	2	0.52	0.35	0
Other	Not Used	-	-	0	-	-	0

MODE	ERROR FOR TRACK	ERROR MESSAGES FOR LINE FORCES		
		Auxillary Line	Extraction Force	Penetration Force
Standing	Zero Pressure Track(s) lifting	Auxillary Line Force OK	Extraction Force OK	Penetration Force OK
Travelling	Track(s) lifting	Auxillary Line Force OK	Extraction Force OK	Penetration Force OK
Handling	Track(s) lifting	Auxillary Line Force OK	Extraction Force OK	Penetration Force OK
Penetrating	Track(s) lifting	Auxillary Line Force OK	Extraction Force OK	Penetration Force OK
Extracting	Track(s) lifting	Auxillary Line Force OK	Extraction Force OK	Penetration Force OK
Other	Track(s) lifting	Auxillary Line Force OK	Extraction Force OK	Penetration Force OK

MODE	ERROR MESSAGES FOR FOOT PAD FORCES		ERROR MESSAGES FOR FOOT PAD PRESSURES	
	INPUT DATA		OUTPUT DATA	
Standing	Slewing Footpad Forces OK	Non-Slewing Footpad Forces OK	Slewing Foot Pad Pressure OK	Non-Slewing Foot Pad Pressure OK
Travelling	Slewing Footpad Forces OK	Non-Slewing Footpad Forces OK	Slewing Foot Pad Pressure OK	Non-Slewing Foot Pad Pressure OK
Handling	Slewing Footpad Forces OK	Non-Slewing Footpad Forces OK	Slewing Foot Pad Pressure OK	Non-Slewing Foot Pad Pressure OK
Penetrating	Slewing Footpad Forces OK	Non-Slewing Footpad Forces OK	Slewing Foot Pad Pressure OK	Non-Slewing Foot Pad Pressure OK
Extracting	Slewing Footpad Forces OK	Non-Slewing Footpad Forces OK	Slewing Foot Pad Pressure OK	Non-Slewing Foot Pad Pressure OK
Other	Slewing Footpad Forces OK	Non-Slewing Footpad Forces OK	Slewing Foot Pad Pressure OK	Non-Slewing Foot Pad Pressure OK



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