

Note: The disclaimer on the first worksheet applies to all tables in this workbook				
Rig Manufacturer :		Klemm		Rig Type : KR 709-2
Completed by: JH		Operation mode: 14/08/14		CFA
Checked by: EW				
Main Components :				
	Item	Mass (kg)	Moment arm (m)	Moment (kNm)
UPPER WORKS	Slewing Head	180	1.275	2.25
	Drill Mast	594	1.514	8.82
	Drill Mast	1857	1.787	32.55
	Cat Head	35	1.974	0.68
	Winch	60	2.281	1.34
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
LOWER WORKS	Track Assembly	2850	-0.09	-2.52
	Base Amchine	5397	-0.53	-28.06
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT	Auger	2447	2.372	56.94
	Rotary Head	1197	2.372	27.85
	Clamping Bracket	690	1.786	12.09
	0	0	0	0.00
	0	0	0	0.00
COUNT.	Counterweight	630	-2.287	-14.13
	0	0	0	0.00
	0	0	0	0.00
OTHER	0	0	0	0.00
	0	0	0	0.00
	0	0	0	0.00
Main Components Totals				
UPPER WORKS		2726	1.71	45.65
LOWER WORKS		8247	-0.38	-30.58
ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT		4334	2.28	96.88
COUNTERWEIGHT		630	-2.29	-14.13
OTHER		0	0.00	0.00
TOTAL		15937	0.63	97.82
Tracks				
Track bearing length (m)		2.765		
Track pad width (m)		0.5		
Distance between centrelines of tracks (m)		1.9		
Front Foot Pads				
Pad Bearing Area (m ²)		0.49	Actual Dimensions	0.7m x 0.7m
Pad Maximum Loading (kN)		130.00	Actual Shape	Square
Pad Moment Arm (m)		1.79		
Rear Foot Pads				
Pad Bearing Area (m ²)		0.00	Actual Dimensions	None
Pad Maximum Loading (kN)		0.00	Actual Shape	None
Pad Moment Arm (m)		0.00		
Forces				
Maximum Extraction Force (kN)		130.00		
Maximum Penetration Force (kN)		0.00		
Maximum Auxillary Force (kN)		0.00	Auxillary Force Moment Arm (m)	0.00
Note: The disclaimer on the first worksheet applies to all tables in this workbook		 Notes Rig to be operated in accordance with manufactures specification, and Miller Piling method statement. Extraction force limited to 75%.		

Schedule of Piling Rig Component Weights, Dimensions, Forces and Pressures				
Rig Manufacturer :		Klemm	Rig Type : KR 709-2	
		Operation mode:	CFA	
Completed by:	JH	14/08/14	Checked by: EW	
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COUNTERWEIGHT	630	-2.29	-14.13	
OTHER	0	0.00	0.00	
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Pad Maximum Loading (kN)	130.00	Actual Shape	Square	
Pad Moment Arm (m)	1.79			
Rear Foot Pads				
Pad Bearing Area (m ²)	0.00	Actual Dimensions	None	
Pad Maximum Loading (kN)	0.00	Actual Shape	None	
Pad Moment Arm (m)	0.00			
Forces				
Maximum Extraction Force (kN)	130.00			
Maximum Penetration Force (kN)	0.00			
Maximum Auxillary Force (kN)	0.00	Auxillary Force Moment Arm (m)	0.00	
Pressure Summary for Platform Design (unfactored)				
MODE	BRE LOAD CASE (1 or 2)	Length (m)	Width (m)	UDL Pressure (kPa)
Standing	1	1.51	0.5	103
Travelling	1	1.51	0.5	103
Handling	1	1.51	0.5	103
Penetrating	2	1.51	0.5	103
Extracting	2	1.23	0.5	123
Other	NOT USED	N/A	0.5	N/A
MODE	WARNING MESSAGES	ERROR MESSAGES FOR FORCES		
Standing	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Travelling	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Handling	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Penetrating	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Extracting	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Other	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
MODE	ERROR MESSAGES FOR FOOT PADS		Notes	
Standing	Front Foot Pad Force OK	Rear Foot Pad Force OK	Only for rig operation on level ground with a vertical mast, unless noted below ! Only for use where the rig is working on a ground supported platform ! Foot pad pressures are adjusted to equalise with the track pressures ! Rigs to be operated in accordance with manufacturer's & employer's instructions Rig to be operated in accordance with manufactures specification, and Miller Piling method statement. Extraction force limited to 75%.	
Travelling	Front Foot Pad Force OK	Rear Foot Pad Force OK		
Handling	Front Foot Pad Force OK	Rear Foot Pad Force OK		
Penetrating	Front Foot Pad Force OK	Rear Foot Pad Force OK		
Extracting	Front Foot Pad Force OK	Rear Foot Pad Force OK		
Other	Front Foot Pad Force OK	Rear Foot Pad Force OK		
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