
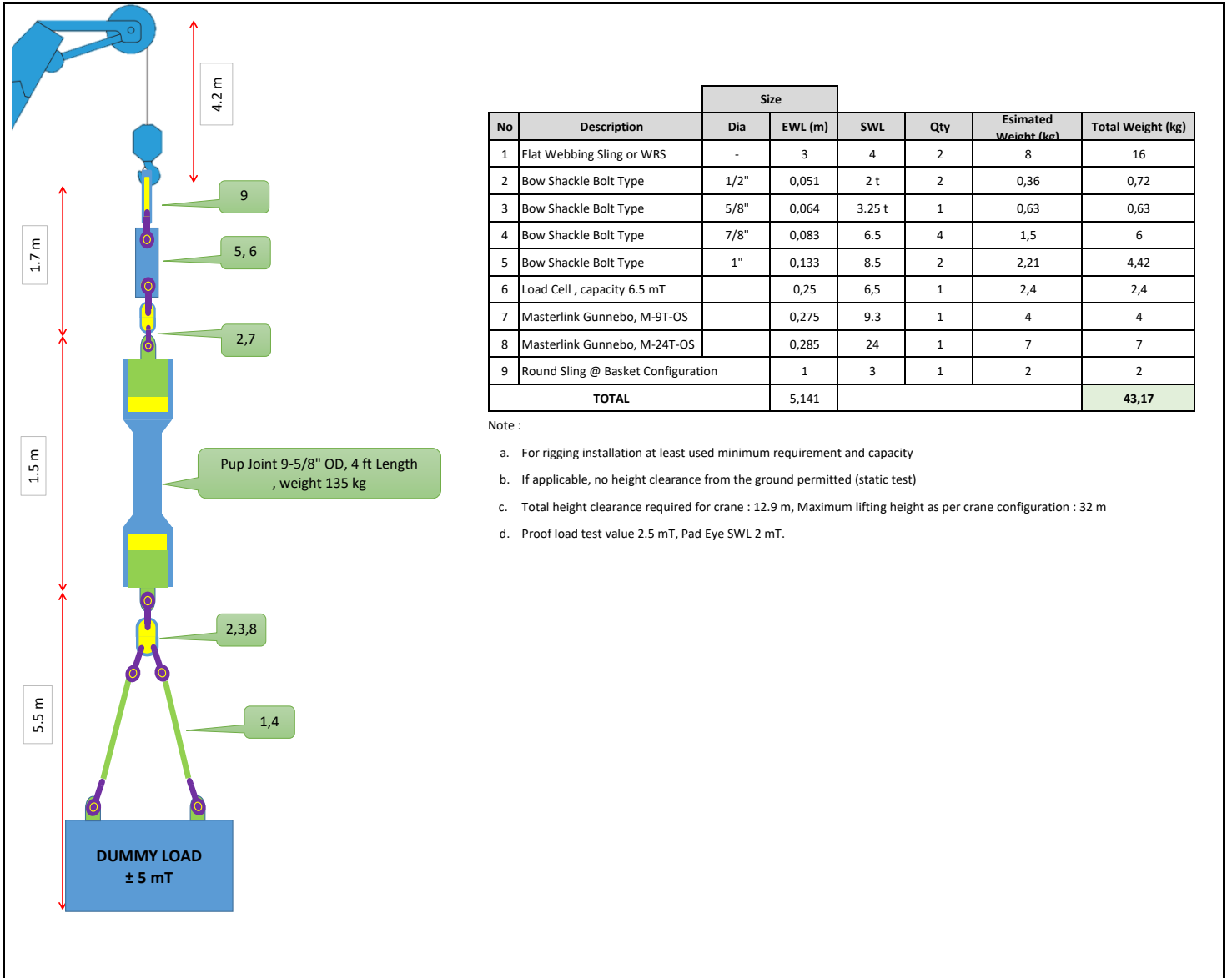


FORMULIR RENCANA ANGGKAT			Nomor :		ISP.PS-LP-002/10/2020		
Nama Pengangkatan :		Load Test Lifting Nubbin 9-5/8" OD		Deskripsi Pengangkatan :		Routine Lift	
Proyek / Pekerjaan/WO No.:		TBA		Unit yang dipakai :		Metric (Tonne-Meter)	
RINCIAN CRANE							
ID No. / Merk Pembuat :		TBA		Model No. / Kapasitas Total		Kobelco 7120-1F / 120 mT	
Konfigurasi		Main Boom		Bentangan Track / Outrigger		6.310 meter	
Tipe / Jenis sub struktur		Crawler Crane		Tail Swing / Ayunan ekor		TBA meter	
Tipe Boom		LatticeBoom		Panjang Boom		33.5 meter	
				Sudut Boom		70 °	
Tipe Jib (jika dipakai)		N/A		Panjang Jib		- meter	
Berat Jib (Stowed/Erected)		-		kilogram(s)		Sudut Offset	
Penggunaan Ballast		-		kilogram(s)		Tambahan Counter Weight	
Berat Hook Block		1700		kilogram(s)		Berat Aux. Hook Block	
Wire rope diameter		26		mm		Single Hoist Line pull (max)	
Partline yang dipakai		1		Kapasitas Reeving		12000 kilogram(s)	
Heavy Lift Attachment		-		Superlift Weight		- kilogram(s)	
(a) RINCIAN BEBAN							
RINCIAN		Jumlah		Berat persatuan (kgs)		Berat (kgs)	
Pup Joint , 9-5/8" OD , 4 Ft Length		1		135,00		135,00	
Dummy Load		1		2500,00		2500,00	
						0	
						0	
						Total Berat beban	
						2635,00	
(b) DATA MATERIAL RIGGING							
RINCIAN (Ukuran, tipe dan SWL)		Jumlah		Berat persatuan (kgs)		Berat (kgs)	
Rigging Hardware (See Rigging Diagram for details)		1		44		44,00	
						Total Berat Material Rigging	
						44	
(c) BERAT PENAMBAH BEBAN							
RINCIAN		Jumlah		Berat persatuan (kgs)		Berat (kgs)	
Main Boom							
Hook Block (Main)						1700	
Main Hoist Line (jika perlu)		26 mm dia , 5 part line				0	
Extension Jib (Tambahan Boom)							
Aux Hook		-		-		450	
Jib		-		-		-	
DAF Factor		Onshore		1,01		2635,00	
Aux Hoist rope		26 mm , 32 m		1		25	
						Total Berat Penambah	
						2201,35	
TOTAL BEBAN CRANE - GROSS LOAD (jumlah gabungan berat beban diatas (a), (b) dan (c))						4880,35	

KONFIGURASI CRANE						
RINCIAN	TITIK PENGANGKATAN		TITIK PENDARATAN		LAINNYA:	
TOTAL BEBAN CRANE	4880,35	(kgs)	179,00	(kgs)		(kgs)
Radius operasi	12	meter	12	meter		meter
Radius pada Load chart	12	meter	12	meter		meter
Panjang Boom dipakai	33.5	meter	33.5	meter		meter
Sudut Boom dipakai	70	°	70	°		°
SWL pada Load chart	12000	(kgs)	12000	(kgs)		(kgs)
Persentase penggunaan crane pada kapasitas tabel beban (%)	40,7%			1,5%		
PERSENTASE MAKSIMUM DARI KAPASITAS TABEL BEBAN (LOAD CHART) YANG AKAN DIPAKAI ADALAH :					40,7%	
Total beban tergantung (hilangkan berat beban tambahan <i>Extension jib</i> jika hanya menggunakan main boom)	4880,35	(kgs)	Kapasitas Reeving	12000		(kgs)
PERSENTASE MAKSIMUM DARI KAPASITAS LILITAN (REEVING) YANG AKAN DIPAKAI ADALAH :					40,7%	
LAMPIRAN DOKUMEN						
√	Layout crane	JHA/JSA/AHA	√	Info Berat Beban/Titik COG		
√	Diagram pengikatan	Risk Evaluation / TRA	√	Clearance Crane dan Beban		
√	Tabel beban	Ramalan Cuaca – Angin	√	Rigging Certificate		
	Perhitungan landasan	√	Drawing Beban			
	Perhitungan alas tambahan		Perhitungan Ground Bearing Pressure			
	Kategori Rencana Angkat		Ruang Lingkup pekerjaan			
Catatan :	Ground Bearing Pressure : diijinkan	40 t/m ²	Actual:	32,17 t/m ²		
	Kecepatan Angin maksimum yang diijinkan:	8 m/s				
	Static Test Only					
LEMBAR PENGESAHAN						
	Nama	Tanda tangan	Jabatan	Tanggal		
Dipersiapkan oleh:	Leo Rante		Lifting Planner	25-Oct-20		
Diperiksa oleh:	Fx Fernando Sagala		LCP	25-Oct-20		
Disetujui oleh:	Nana Supriyatna	 12.30	Client Reps	02/11/2020		

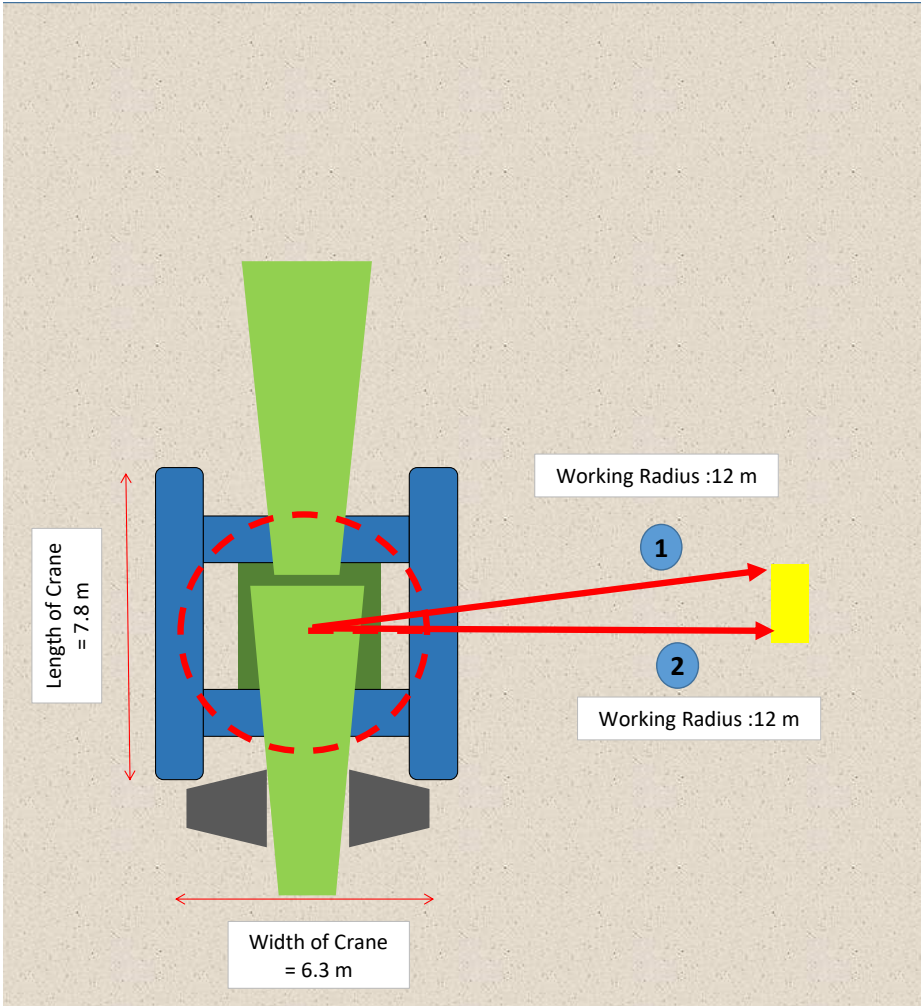


No	Description	Size		SWL	Qty	Estimated Weight (kg)	Total Weight (kg)
		Dia	EWL (m)				
1	Flat Webbing Sling or WRS	-	3	4	2	8	16
2	Bow Shackle Bolt Type	1/2"	0,051	2 t	2	0,36	0,72
3	Bow Shackle Bolt Type	5/8"	0,064	3.25 t	1	0,63	0,63
4	Bow Shackle Bolt Type	7/8"	0,083	6.5	4	1,5	6
5	Bow Shackle Bolt Type	1"	0,133	8.5	2	2,21	4,42
6	Load Cell , capacity 6.5 mT		0,25	6,5	1	2,4	2,4
7	Masterlink Gunnebo, M-9T-OS		0,275	9.3	1	4	4
8	Masterlink Gunnebo, M-24T-OS		0,285	24	1	7	7
9	Round Sling @ Basket Configuration		1	3	1	2	2
TOTAL			5,141				43,17

Note :

- For rigging installation at least used minimum requirement and capacity
- If applicable, no height clearance from the ground permitted (static test)
- Total height clearance required for crane : 12.9 m, Maximum lifting height as per crane configuration : 32 m
- Proof load test value 2.5 mT, Pad Eye SWL 2 mT.

PLAN VIEW

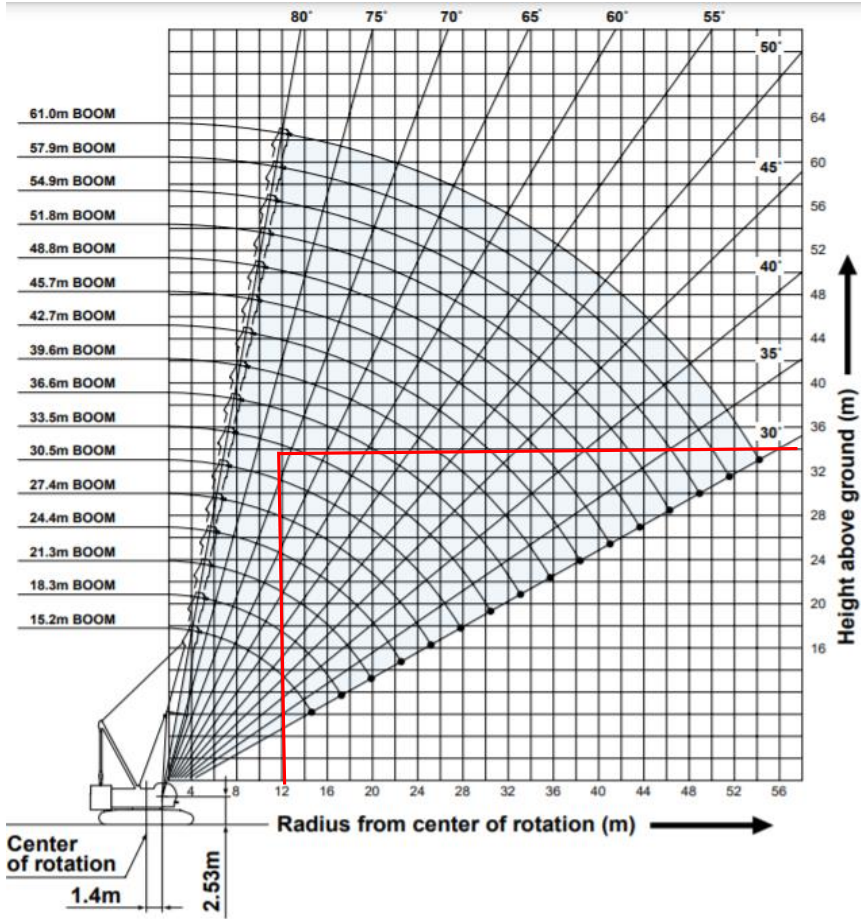


Lifting Sequence :

1. Ensure the crane foundation area has adequate strength. Check crane document (Ropes certificate, Crane cert, Previous Inspection Cert)
Provide an extra crane mat , if necessary
2. Provide safety barricade to cover minimum radius required and sign board of lifting/load test activity
3. Set up crane configuration with full-extended crawler track
4. Ensure counter weight of crane installed correctly as per crane load chart
5. Install rigging hardware, lifting nubbings, load cell, dummy load and other attachment as per rigging diagram. Use forklift if required
6. Switch on the load cell and reset to zero point
7. Setting crane to point no. 1
8. Do lifting gradually to prevent shock load and un-predicted swing and pay attention to crane and rigging condition
9. Stop lifting , if any potential risk or damage
10. Lift up the Pup Joint to point no. 2
11. Ensure condition of the rigging connected to the dummy load fitted correctly and put cover to sharp edge area
12. Lift up dummy load gradually and ensure no load movement or drop object
13. Lift up until 2.5 mT indicated in load cell.
14. Hold the final position to 10 minutes (use stopwatch to verify) and recorded
15. If finished, release the load gradually
16. Remove all rigging attached and perform NDT at bearing point area (lifting hole)
17. If satisfied , record and generate inspection report

Kobelco Crane 7120-1F , 120 mT max Capacity

Boom Length : 33.5 m @ 12 m working radius with 12.5 mT capacity, 1 reeving line @ Aux Line



Crane Boom Lifting Capacity

Unit: metric ton

Counterweight: 52.3 t

Working radius (m)	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	Boom Length (m)	Working radius (m)
4.5	4.5 m/120.0													4.5
5.0	120.0	5.1 m/108.0	5.6 m/96.0											5.0
6.0	100.0	99.8	94.9	6.1 m/84.0	6.7 m/74.6									6.0
7.0	85.7	85.5	85.3	81.5	73.7	7.2 m/66.4	7.7 m/59.4							7.0
8.0	73.7	73.6	73.5	73.5	71.3	64.7	58.9	8.2 m/53.6	8.8 m/48.0					8.0
9.0	61.5	61.3	61.2	61.1	61.0	60.9	57.2	52.5	48.0	9.3 m/43.5	9.8 m/39.6			9.0
10.0	52.6	52.5	52.3	52.2	52.1	52.0	52.0	51.2	46.8	42.8	39.5	10.4 m/36.0		10.0
12.0	40.6	40.5	40.3	40.2	40.0	40.0	39.9	39.7	39.7	39.5	37.8	34.7		12.0
14.0	33.0	32.8	32.6	32.5	32.3	32.3	32.2	32.0	31.9	31.8	31.6	31.6		14.0
16.0	14.9 m/29.1	27.5	27.3	27.2	26.9	26.9	26.8	26.6	26.5	26.4	26.2	26.1		16.0
18.0		17.5 m/24.5	23.3	23.2	23.0	22.9	22.8	22.6	22.5	22.4	22.2	22.1		18.0
20.0			20.3	20.2	20.0	19.9	19.8	19.5	19.5	19.3	19.1	19.1		20.0
22.0			20.1 m/20.2	17.8	17.6	17.5	17.4	17.1	17.1	16.9	16.7	16.6		22.0
24.0				22.8 m/17.1	15.6	15.5	15.4	15.2	15.1	14.9	14.7	14.7		24.0
26.0					25.4 m/14.5	13.9	13.8	13.6	13.5	13.3	13.1	13.0		26.0
28.0						12.6	12.5	12.2	12.1	12.0	11.7	11.7		28.0
30.0							11.3	11.1	11.0	10.8	10.6	10.5		30.0
32.0							30.7 m/11.0	10.1	10.0	9.8	9.6	9.5		32.0
34.0								33.3 m/9.5	9.1	8.9	8.7	8.6		34.0
36.0									8.4	8.2	8.0	7.9		36.0
38.0										7.5	7.3	7.2		38.0
40.0											38.6 m/7.4	6.7		40.0
42.0												41.2 m/6.4	6.1	42.0
44.0													43.9 m/5.6	44.0
Reeves	10	9	8	7	7	6	5	5	4	4	4	4	3	Reeves