



LIFT PLAN

COVALENT LITHIUM
STICK BUILD MODULE 1
STCK TOWER

Revisions;

A	Issued For Approval	14-May-26	GM		
Rev	Description	Date	Prepared	Checked	Approved

Name

Signature

Date

For LPA Study created by Guy McGowan *Guy McGowan* 14-May-26

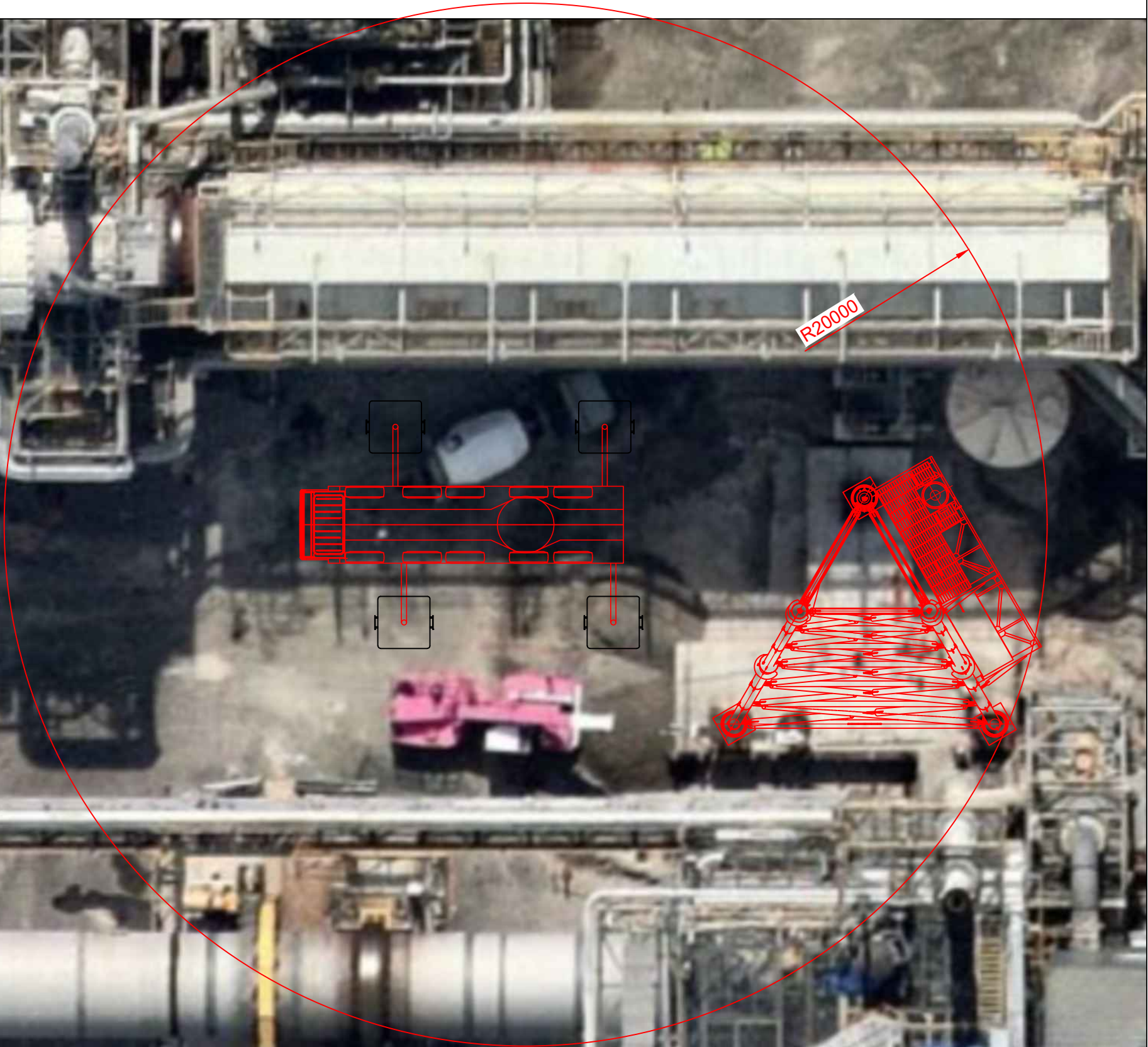
For Client Chkd / Appr. by

3rd Party Reviewer Chkd / Appr. by

CRANE DETAILS - SINGLE CRANE LIFT		
MAKE	TADANO	
MODEL	ATF 130G-5	
CRANE MRC	130	t
LMI CODE	19	
CONFIGURATION	HA	
COUNTERWEIGHT	42.3	t
MAIN BOOM LENGTH	43	m
MAIN BOOM CONFIG.	92,46,46,46,92	%
JIB TYPE / OFFSET	NOT FITTED	°
JIB LENGTH	-	m
MAIN / AUX. HOOK?	MAIN	
OEM CHART WIND SPEED	10	m/sec
LOAD DETAILS		
MAX. LOAD SHARE	4700	kg
CRANE COMPONENTS	757	kg
RIGGING	48	kg
TOTAL LIFT WEIGHT	5505	kg
LIFT DETAILS		
MAXIMUM LIFT RADIUS	20	m
WLL AT MAX. RADIUS	15200	kg
UTILISATION	36.2	%
SPARE CAPACITY	9695	kg
REEVING CHECK		
LINE PULL	8700	kg
No. OF PARTS	1	
FACTORED LINE PULL	8700	kg
LOAD TO HOOK	5820	kg
REEVING UTILISATION	66.9	%
GROUND BEARING PRESSURES (MAXIMUM)		
OUTRIGGER PAD SIZE	1.2 x 1.2	m
OUTRIGGER PAD AREA	1.44	m2
OUTRIGGER PAD WEIGHT	0.1	t
MAXIMUM JACK FORCE	31.0	t
TOTAL DOWN FORCE	31.1	t
PRESSURE UNDER PAD	21.6	t/m2
PRESSURE UNDER PAD	211.9	kPa

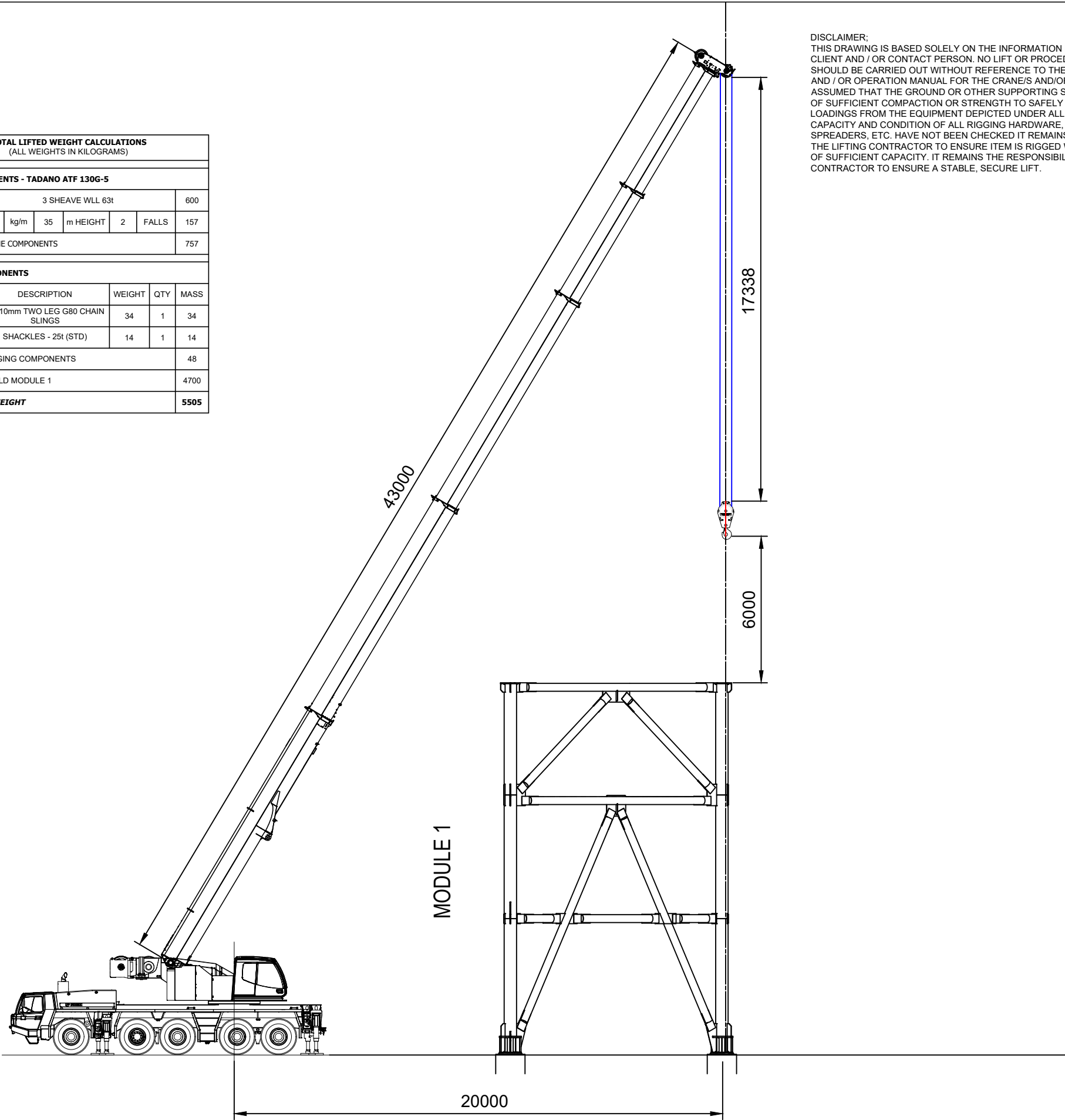
TOTAL LIFTED WEIGHT CALCULATIONS (ALL WEIGHTS IN KILOGRAMS)						
CRANE COMPONENTS - TADANO ATF 130G-5						
MAIN HOOK	3 SHEAVE WLL 63t					600
MAIN ROPE	2.24	kg/m	35	m HEIGHT	2	FALLS 157
SUB TOTAL - CRANE COMPONENTS						757
RIGGING COMPONENTS						
ITEM	DESCRIPTION			WEIGHT	QTY	MASS
1	6m 10mm TWO LEG G80 CHAIN SLINGS			34	1	34
2	SHACKLES - 25t (STD)			14	1	14
SUB TOTAL - RIGGING COMPONENTS						48
LOAD - STICK BUILD MODULE 1						4700
TOTAL LIFTED WEIGHT						5505

DISCLAIMER:
THIS DRAWING IS BASED SOLELY ON THE INFORMATION PROVIDED BY THE NAMED CLIENT AND / OR CONTACT PERSON. NO LIFT OR PROCEDURE DESCRIBED HEREIN SHOULD BE CARRIED OUT WITHOUT REFERENCE TO THE SPECIFIC LOADCHART AND / OR OPERATION MANUAL FOR THE CRANE/S AND/OR PLANT DEPICTED. IT IS ASSUMED THAT THE GROUND OR OTHER SUPPORTING STRUCTURE IS LEVEL AND OF SUFFICIENT COMPACTION OR STRENGTH TO SAFELY WITHSTAND IMPOSED LOADINGS FROM THE EQUIPMENT DEPICTED UNDER ALL OPERATING CONDITIONS. CAPACITY AND CONDITION OF ALL RIGGING HARDWARE, SLINGS/CHAINS, SPREADERS, ETC. HAVE NOT BEEN CHECKED IT REMAINS THE RESPONSIBILITY OF THE LIFTING CONTRACTOR TO ENSURE ITEM IS RIGGED WITH LIFTING HARDWARE OF SUFFICIENT CAPACITY. IT REMAINS THE RESPONSIBILITY OF THE LIFTING CONTRACTOR TO ENSURE A STABLE, SECURE LIFT



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TADANO												Load rating chart ATF 130G-5											
Working radius [m]	Lifting capacities in metric tons acc. to EN 13000, at telescopic boom																		Working radius [m]				
	Counterweight 42,3t																						
	On outriggers, 360° working area																						
Outriggers extended, outrigger base 7,50m																							
Boom length [m]																							
34,4 34,4 38,7 38,7 38,7 43,0 43,0 43,0 43,0																							
° ° ° ° ° ° ° ° °																							
∠ ∠ ∠ ∠ ∠ ∠ ∠ ∠ ∠ ∠																							
2,7																			2,7				
3,0																			3,0				
3,5																			3,5				
4,0																			4,0				
4,5																			4,5				
5,0	80	29,5	80	25,2															5,0				
6,0	79	28,8	79	23,6	80	32,8	80	27,4	80	20,5									6,0				
7,0	77	26,8	77	22,1	79	32,8	79	27,0	79	20,5	80	27,1	80	23,1	80	20,7	80	19,0	7,0				
8,0	75	24,9	75	20,5	77	32,8	77	25,7	77	20,1	79	27,1	79	23,1	79	20,6	79	19,0	8,0				
9,0	74	23,3	74	19,1	76	30,3	76	24,5	76	18,5	78	27,1	78	23,1	78	19,6	78	18,8	9,0				
10,0	72	21,9	72	17,8	75	28,1	75	23,2	75	17,2	76	26,5	76	23,1	76	18,7	76	17,9	10,0				
11,0	70	20,6	70	16,6	73	26,2	73	21,9	73	16,0	75	24,7	75	22,3	75	17,9	75	16,9	11,0				
12,0	68	19,5	68	15,6	72	24,5	72	20,8	72	14,9	74	23,1	74	21,4	74	17,1	74	15,8	12,0				
14,0	65	17,5	65	14,0	69	21,6	69	18,8	69	13,2	71	20,4	71	19,6	71	15,7	71	14,1	14,0				
16,0	61	16,0	61	12,5	65	19,3	65	17,2	65	11,8	68	18,2	68	18,0	68	14,4	68	12,7	16,0				
18,0	57	14,7	57	11,2	62	17,4	62	15,9	62	10,6	66	16,4	66	16,7	66	13,2	66	11,5	18,0				
20,0	53	13,6	53	10,2	58	15,8	58	14,7	58	9,6	63	14,9	63	15,2	63	12,2	63	10,5	20,0				
22,0	48	12,6	48	9,3	55	14,1	55	13,7	55	8,8	59	13,4	59	13,9	59	11,3	59	9,7	22,0				
24,0	43	11,8	43	8,5	51	12,2	51	12,9	51	8,0	56	12,2	56	12,7	56	10,6	56	8,9	24,0				
26,0	38	11,2	38	7,9	47	10,7	47	11,8	47	7,3	53	10,8	53	11,3	53	9,8	53	8,3	26,0				
28,0	31	10,6	31	7,3	42	9,4	42	10,5	42	6,8	49	9,5	49	10,0	49	9,1	49	7,6	28,0				
30,0	23	9,8	23	6,8	37	8,3	37	9,4	37	6,2	45	8,4	45	8,8	45	8,5	45	7,1	30,0				
32,0					31	7,4	31	8,4	31	5,8	41	7,4	41	7,9	41	8,0	41	6,6	32,0				
34,0					24	6,6	24	7,6	24	5,4	36	6,6	36	7,1	36	7,5	36	6,2	34,0				
36,0											31	5,8	31	6,4	31	7,1	31	5,8	36,0				
38,0											24	5,2	24	5,7	24	6,5	24	5,4	38,0				
40,0											14	4,6	14	5,2	14	5,9	14	5,1	40,0				
42,0																			42,0				
44,0																			44,0				
46,0																			46,0				
48,0																			48,0				
50,0																			50,0				
52,0																			52,0				
54,0																			54,0				
56,0																			56,0				
Tel.	Telescoping sequence [%]																		Tel.				
1	0	0	92	46	0	92	92	46	0	1													
2	46	0	46	46	0	92	46	46	46	2													
3	46	46	46	46	92	46	46	46	92	3													
4	46	92	46	46	92	46	46	92	92	4													
5	92	92	46	92	92	46	92	92	92	5													
[m/s]	12	12	10	10	10	10	10	10	10	[m/s]													
No.	17	6	16	18	7	21	19	20	8	No.													

The operation manual and the notes to the load rating chart have to be observed !

OUTRIGGER REACTION

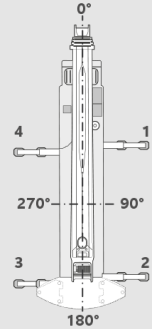
ATF 130G-5 EU Stage IV (Standard)

Main boom (without jib in transport or working position)

CONFIGURATION

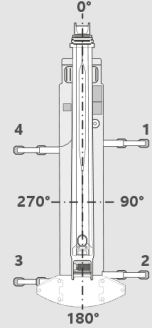
Jib - Configuration [m]	0	Slewing angle	Maximum ground bearing load in service in working area	Number of ropes	1
Jib - Adjustment angle [°]	0	Hook block [t Lifting load]	Type: 63 t / Weight: 0,60 t	Usable rope length [m]	206.96 m
Boom length [m]	43.0 m	Weight of slings [t]	0.043 t	Underfloor height [m]	-169.8 m
Boom extension sequence [%]	92-46-46-46-92	Working radius [m]	20.0 m	Center of gravity X (to slewing center [m])	
Counterweight [t]	42.4 t	Boom angle [°]	62.7 °	Center of gravity Y (to slewing center [m])	
Outrigger base [m]	7.5 m	Lifting load [t] (max. 14.6)	4.7 t		

GROUND FORCES [t]

		Outrigger			
		1	2	3	4
	Slewing angle [°]				
	43.5	28	26	20	22
	133.1	22	31	25	18
	224.0	18	25	31	22
	314.7	22	20	25	28

Maximum ground bearing load in service in working area

At 0 t lifting load

		Outrigger			
		1	2	3	4
	Slewing angle [°]				
	44.0	18	23	29	21
	134.7	21	19	24	26
	223.5	26	24	20	21
	313.1	21	29	23	17

Maximum ground bearing load in service in working area