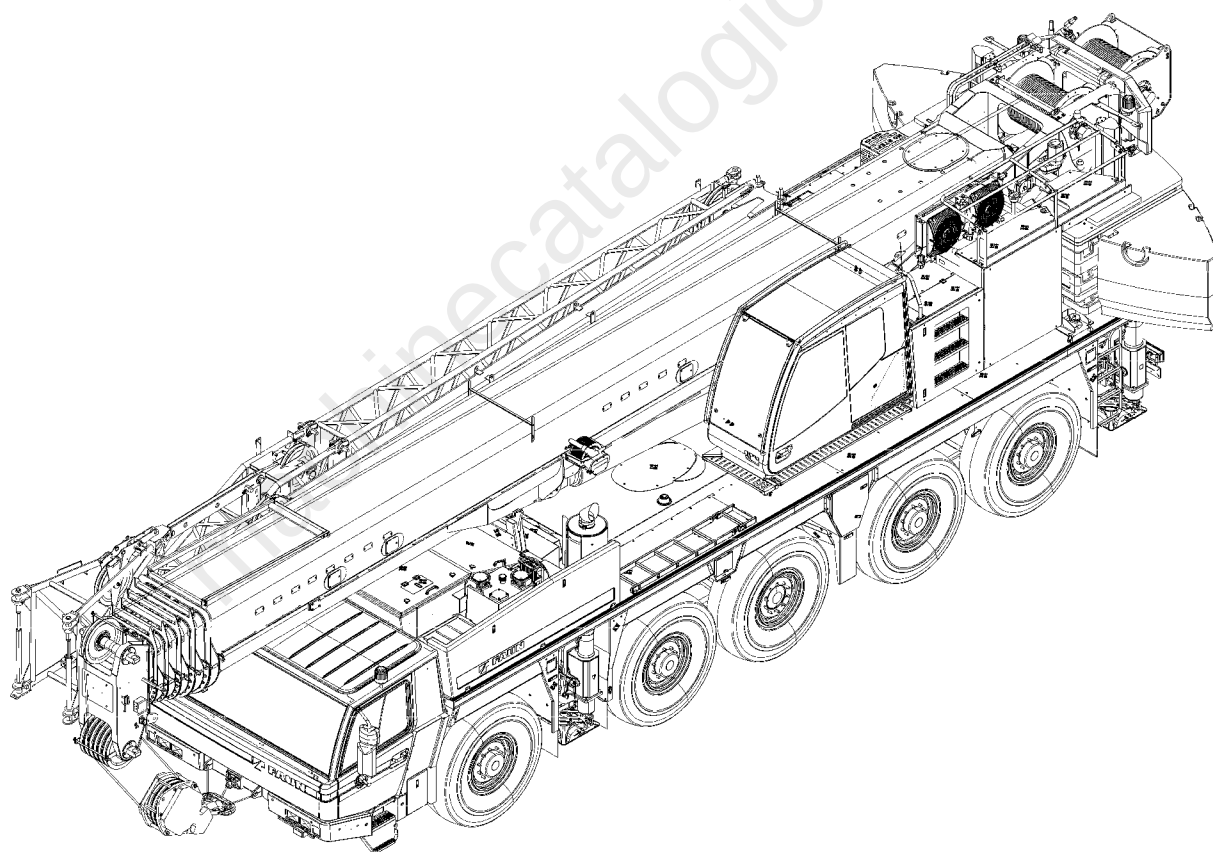




Trouble Shooting & Maintenance Manual

ATF 130G – 5



FAUN												Load rating chart ATF 130G-5											
Lifting capacities in metric tons acc. to EN 13000, at telescopic boom																							
Counterweight 0t																							
On outriggers, 360° working area																							
Outriggers extended, outrigger base 6,20m																							
Working radius [m]	Boom length [m]																				Working radius [m]		
	25.8		25.8		25.8		30.1		30.1		30.1		30.1		34.4		34.4						
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°					
2.7																					2.7		
3.0																					3.0		
3.5	79	50.0	79	46.6	79	34.8															3.5		
4.0	78	50.0	78	46.6	78	33.0															4.0		
4.5	77	42.4	77	44.8	77	31.1	80	35.0	80	37.5	80	40.2	80	26.7							4.5		
5.0	76	36.2	76	38.4	76	29.4	79	30.0	79	32.2	79	34.8	79	25.6	80	28.6	80	31.0			5.0		
6.0	74	27.6	74	29.6	74	26.5	77	22.8	77	24.8	77	27.1	77	23.3	79	22.2	79	24.3			6.0		
7.0	72	21.9	72	23.7	72	24.1	75	17.8	75	19.8	75	21.8	75	21.2	77	17.7	77	19.7			7.0		
8.0	69	17.9	69	19.5	69	20.4	73	14.3	73	16.1	73	18.0	73	19.4	75	14.4	75	16.2			8.0		
9.0	67	14.8	67	16.3	67	17.2	71	11.6	71	13.3	71	15.2	71	16.5	74	11.8	74	13.6			9.0		
10.0	64	12.5	64	13.9	64	14.7	69	9.5	69	11.2	69	12.9	69	14.2	72	9.8	72	11.6			10.0		
11.0	62	10.6	62	12.0	62	12.8	67	7.8	67	9.4	67	11.1	67	12.3	70	8.2	70	9.9			11.0		
12.0	59	9.0	59	10.4	59	11.2	64	6.4	64	8.0	64	9.6	64	10.8	68	6.9	68	8.5			12.0		
14.0	53	6.2	53	7.6	53	8.3	60	4.3	60	5.8	60	7.3	60	8.4	65	4.8	65	6.4			14.0		
16.0	47	4.4	47	5.6	47	6.3	55	2.6	55	3.9	55	5.4	55	6.4	61	3.2	61	4.7			16.0		
18.0	41	3.0	41	4.2	41	4.8	50	1.2	50	2.5	55	3.9	50	5.0	57	2.0	57	3.3			18.0		
20.0	33	2.0	33	3.1	33	3.7			45	1.5	45	2.8	45	3.8			53	2.3			20.0		
22.0	22	1.2	22	2.3	22	2.9					39	2.0	39	3.0			48	1.4			22.0		
24.0											31	1.3	31	2.3							24.0		
26.0													22	1.7							26.0		
28.0																					28.0		
30.0																					30.0		
Tel.	Telescoping sequence [%]																				Tel.		
1	0	0	0	0	92	46	0	0	92	46	1												
2	46	0	0	0	46	46	46	0	46	46	2												
3	46	46	0	0	46	46	46	0	46	46	3												
4	46	46	46	0	0	46	46	92	46	46	4												
5	0	46	92	0	0	0	46	92	0	46	5												
[m/s]	12	12	12	12	12	12	12	12	12	12	[m/s]												
No.	32	13	4	31	33	14	5	34	15	No.													

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

Outrigger reaction force **F** in [kN]
 Lifting capacities **m** in metric tons acc. to EN 13000, at fly jib 3,8m / 10,2m / 18,0m / 25,0m / 32,0m,
 load rating chart 99707704758

Counterweight 6,0t

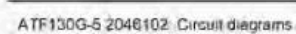
On outriggers, 360° working area

Outriggers extended, outrigger base 7,50m

Boom length 12,8m

Working radiu	Fly jib																														Working radiu
	3,8m offset						10,2m offset						18,0m offset						25,0m offset						32,0m offset						
	0°		20°		40°		0°		20°		40°		0°		20°		40°		0°		20°		40°		0°		20°		40°		
	m	F	m	F	m	F	m	F	m	F	m	F	m	F	m	F	m	F	m	F	m	F	m	F	m	F	m	F	m	F	
	3.0	40.0	332	32.7	283			15.0	178					7.8	185																
3.5	40.0	355	31.3	293	25.2	250	15.0	186					7.8	179																	3.5
4.0	40.0	378	30.0	303	24.5	261	15.0	196					7.8	174																	4.0
4.5	38.9	393	28.9	314	23.8	272	15.0	206					7.8	169					5.1	178											4.5
5.0	36.8	399	27.8	323	23.2	282	15.0	216	14.1	195			7.8	164				5.1	174												5.0
6.0	33.3	411	26.0	341	22.2	304	15.0	236	13.0	204			7.8	166				5.1	167					3.5	174						6.0
7.0	30.4	422	24.4	358	21.3	324	15.0	256	12.1	214			7.5	174				5.1	160					3.5	169						7.0
8.0	28.0	433	23.1	375	20.5	344	15.0	276	11.3	223	9.1	187	7.1	180				5.1	160					3.5	163						8.0
9.0	26.0	443	22.0	392	19.9	364	13.8	282	10.6	231	8.7	197	6.7	187	5.2	156		5.1	167					3.5	157						9.0
10.0	23.2	440	21.0	408	19.5	387	12.6	285	10.0	240	8.4	208	6.3	192	5.0	161		5.1	174					3.5	156						10.0
11.0	19.6	419	19.9	421	19.2	410	11.4	286	9.4	247	8.0	217	6.0	199	4.7	165		5.1	182					3.5	162						11.0
12.0	16.7	402	17.0	404			10.4	288	9.0	256	7.8	229	5.7	204	4.5	171		5.1	190					3.5	168						12.0
14.0	12.3	374					8.9	294	8.2	272	7.3	249	5.1	214	4.1	180	3.5	158	4.9	205	4.5	176			3.5	179					14.0
16.0							7.8	301	7.6	289	7.0	272	4.6	223	3.8	191	3.3	169	4.7	219	4.0	183			3.5	193					16.0
18.0							6.9	308	7.1	306			4.2	232	3.5	201	3.1	180	4.4	229	3.6	191			3.5	207	3.1	175			18.0
20.0							6.1	314					3.9	242	3.3	214	3.0	193	3.8	232	3.3	199	2.8	171	3.2	214	2.8	181			20.0
22.0													3.6	251	3.1	225	2.9	209	3.4	237	3.0	207	2.6	179	2.8	218	2.6	188			22.0
24.0													3.3	258	3.0	239	2.8	226	3.0	241	2.8	217	2.5	190	2.5	223	2.3	193			24.0
26.0													3.1	268	2.9	254			2.7	246	2.6	226	2.3	200	2.2	226	2.2	203	1.9	174	26.0
28.0													3.0	279					2.4	250	2.4	234	2.2	213	2.0	232	2.0	210	1.8	182	28.0
30.0																			2.2	256	2.3	245	2.1	227	1.8	237	1.9	219	1.6	188	30.0
32.0																			2.0	261	2.1	253			1.6	241	1.7	225	1.6	201	32.0
34.0																			1.8	265					1.4	244	1.6	233	1.5	212	34.0
36.0																									1.3	250	1.5	242	1.4	223	36.0
38.0																									1.2	256	1.4	250	1.4	239	38.0
40.0																									1.1	261	1.4	264			40.0
44.0																															44.0
48.0																															48.0
Tel.	Telescoping sequence [%]																														Tel.
1	0																														1
2	0																														2
3	0																														3
4	0																														4
5	0																														5

The chart shows the maximum existing outrigger reaction forces in the worst condition,
 dynamic influences are not being taken into account.



10 Hydraulic system

	 DANGER
	High oil pressures in the pipes and the hydraulic system! Risk of accident when servicing the hydraulic system when the engine is running. 1) Carry out work on the hydraulic system only when the engine is turned off.

	 WARNING
	Risk of accident due to the damaged hydraulic pump! The hydraulic pump can be damaged if the fuel valves are closed, which can result in a risk of accident because of an incapability to steer. The cylinders cannot be extended completely and the mobile crane cannot be levelled either. 1) Close the fuel valves only when carrying out repair work on the hydraulic system. 2) Open the fuel valves before commissioning the mobile crane.

- Check the hydraulic system regularly for leak tightness.

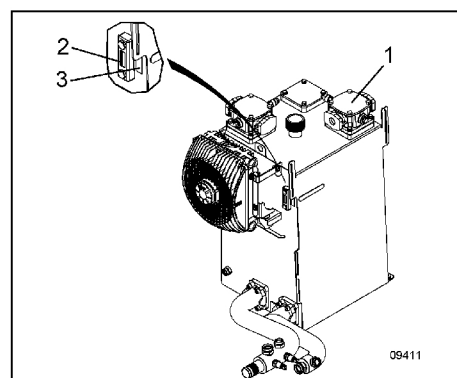
10.1 Checking the hydraulic oil level

	 WARNING
	Incorrect oil level! The hydraulic pump can be damaged if the oil level is too low, which can result in a risk of accident because of an incapability to steer. The cylinders cannot be extended completely and the mobile crane cannot be levelled either. 1) Check the oil level and replenish if necessary.

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The steering system, ventilator, outrigger and suspension are fed from a common hydraulic oil tank.

- Check the hydraulic oil level when the engine is turned off, the outriggers are retracted and the mobile crane is in the driving level.
- The hydraulic oil level can be read on the sight glass (2).
- The hydraulic oil level depends on the hydraulic oil temperature, see plate (3).
- The oil is filled through the opening of the filter cover (1).
- Unscrew the filter cover (1) and replenish oil through the opening.
- Check, clean, and if necessary replace, the cover seal.
- Re-screw the filter cover (1).



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Only replenish the new hydraulic oil from clean containers.

Full Version Available

Tadano ATF 130G-5 All Terrain Crane Service Manual

Tadano ATF 130G-5 all terrain crane service manual with troubleshooting, maintenance and adjustment procedures for chassis and superstructure.

VIEW THE FULL MANUAL

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File Pages: 4,217 · File Count: 12 · File Language: English