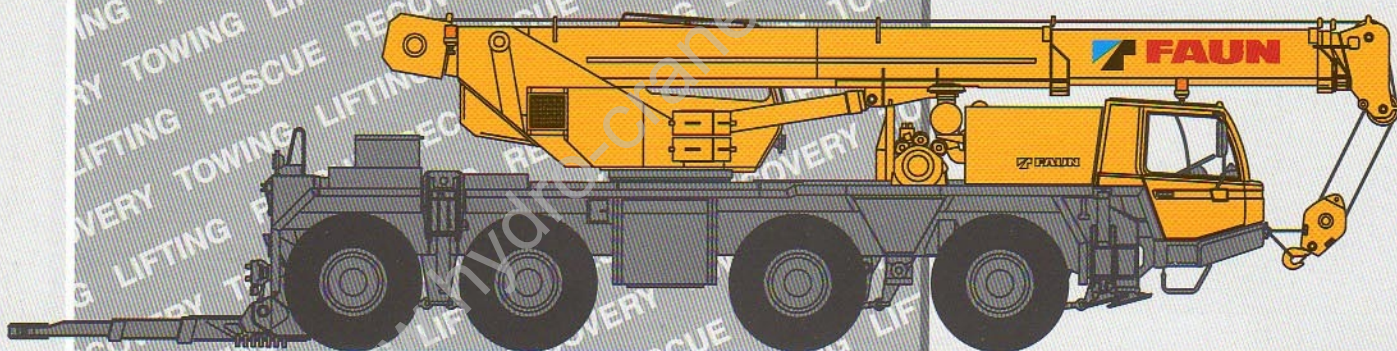
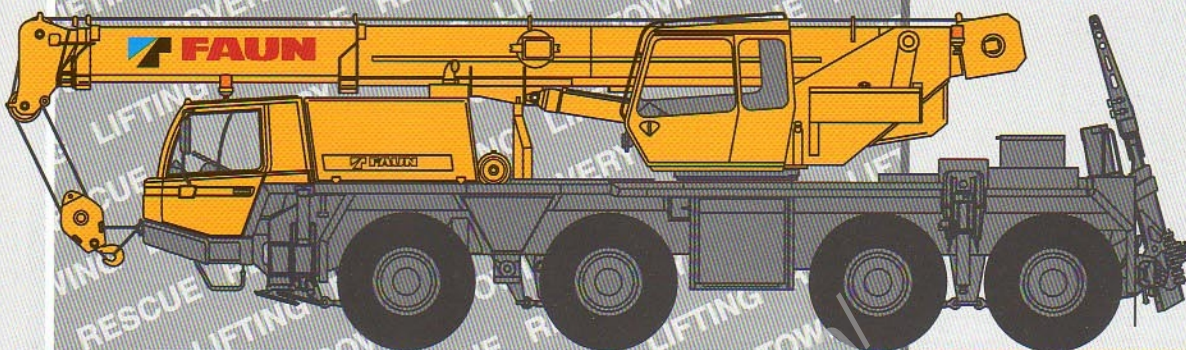


RECOVERY VEHICLE

ISO 9001

BKF 40-4
BKF 40-4L

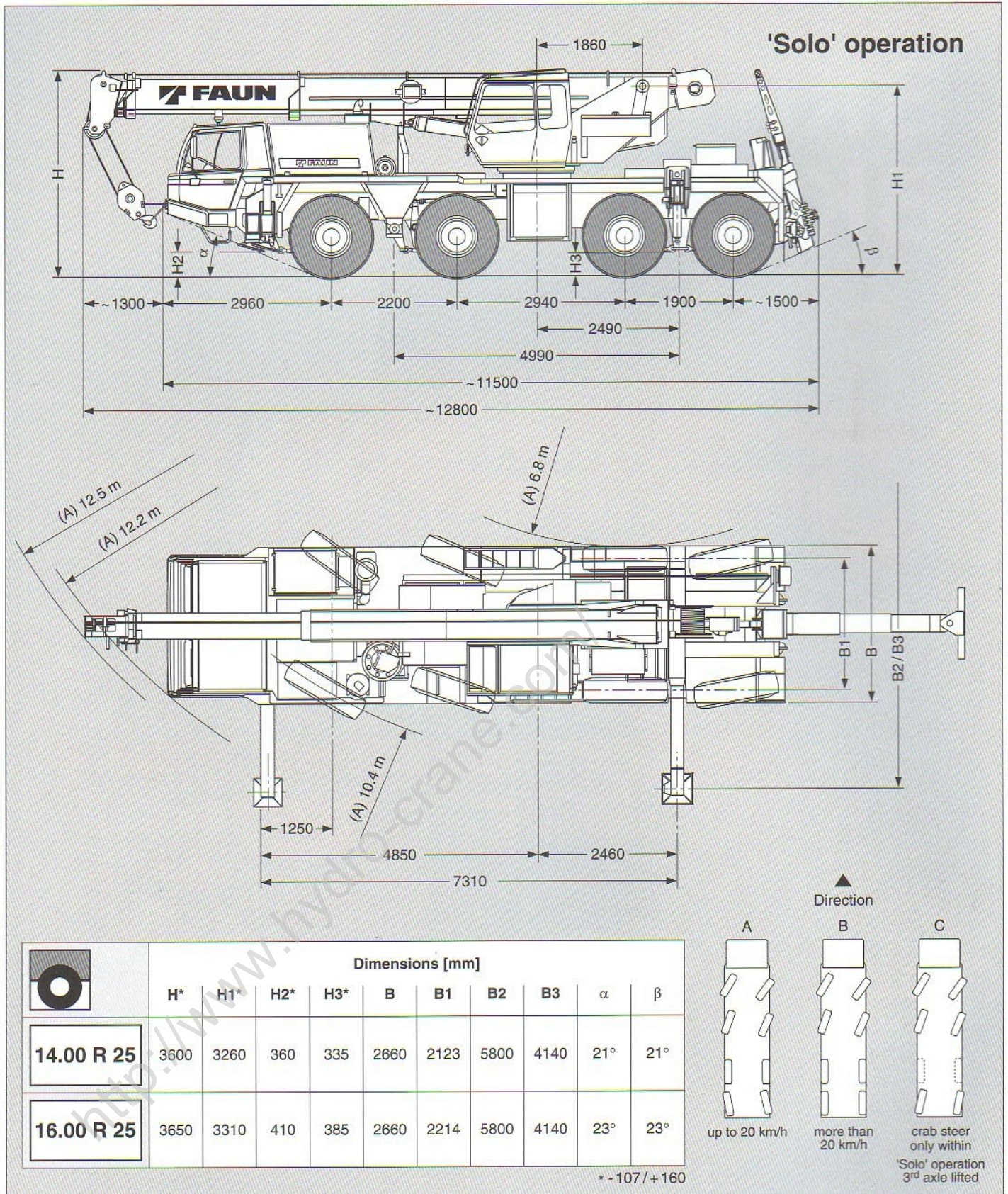


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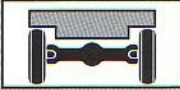
	SERVICE  
	(0) 91 23 95 50 
	(0) 17 18 11 43 24 
	(0) 91 23 18 51 55
	(0) 91 23 18 52 19
	(0) 91 23 30 85
	Service + Spare parts
	e-mail: service@tadanofaun.de
	e-mail: spareparts@tadanofaun.de
	  

<http://www.hydro.com>

Dimensions (mm)

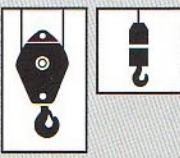


Weights / Working speeds

	Axle	1	2	3	4	Total weight
	(t)	9.9	9.9	5.2	5.2	30.2*
	(t)	10.5	10.5	5.5	5.5	32.0**

* Boom 6.9 m - 22.5 m, tyres 14.00 R 25, drive 8 x 6, drum type winch 200 kN.

** Boom 8.6 m - 28.5 m, tyres 16.00 R 25, drive 8 x 8, drum type winch 200 kN, drum type winch 100 kN




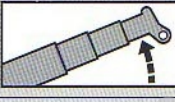
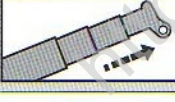
	Lifting capacity	Sheaves	Parts of line	Weight
	32 t*	3	7	300 kg
	32 t	3	7	300 kg
	12.5 t	1	3	170 kg

* Double hook



		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	R1	R2			
		14.00	km/h	4	5	6	8	9	11	13	16	20	24	29	36	43	52	61	74	5	6	70 t
16.00	km/h	5	6	7	8	10	12	15	18	22	26	32	39	47	56	67	80	5	6	47%	56%	*)

*) Theoretical value more than 80%

	Infinitely variable	Rope	Max. single line pull
	0 - 120 m/min single line	16 mm / 150 m	55 kN 1 st Layer
	0 - 2.0 min ⁻¹		
	-1° - +80° ca. 35 s		
	6.9 m - 22.5 m ca. 75 s	8.6 m - 28.5 m ca. 75 s	

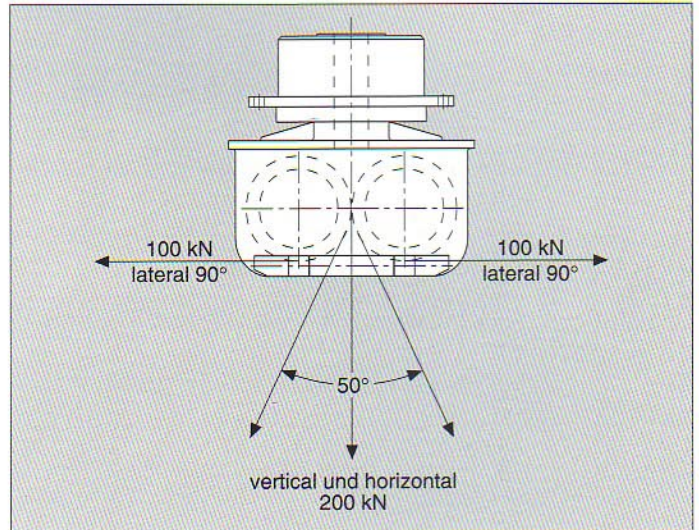
Recovery operation

Recovery winch

Hydraulic drum-type winch with revolving rope guide mounted on the rear, right-hand side of the carrier for recovery operation.

Radio remote control, emergency control on winch.

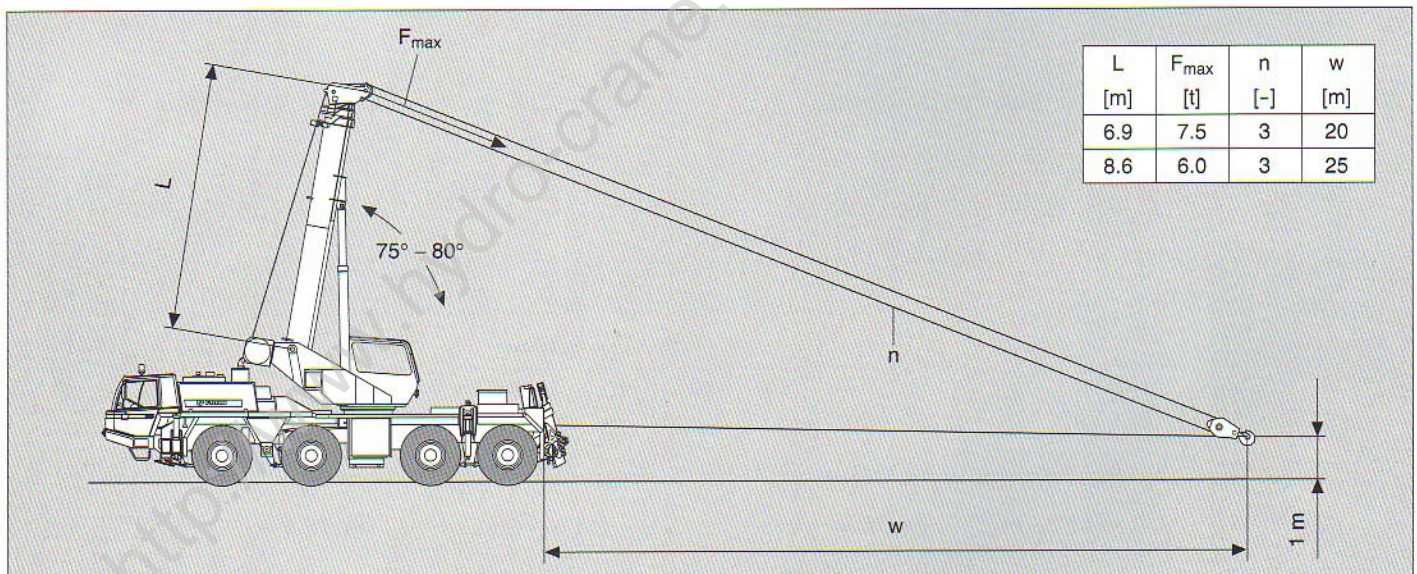
Rope diameter	24 mm
Rope length	ca. 50 m
Max. single line pull (1 st layer):	200 kN
Max. rope speed:	ca. 13 m/min (1 st layer)



Recovery operation using recovery winch and main winch

Simultaneous recovery operation using the recovery winch and the main winch is possible under the following conditions:

- Main winch hook block with 3 parts of line
- Crane levelled in horizontally position
- Boom over-rear, superstructure locked and slewing brake engaged
- Boom completely retracted - boom angle 75° - 80°
- Rear axle locked
- Holding brake for recovery winch operation engaged
- Permissible lateral deviation of hook block 1° ± 0.5° from the longitudinal axis of the carrier



Towing loads

Towing load with rod (brakes functioning) up to	ca. 40 t
Towing load with rod (brakes not functioning)	ca. 20 t
With underlift towing attachment	ca. 30 t*
*Rear axle load 2 x 12.000 kg	

Towing attachment

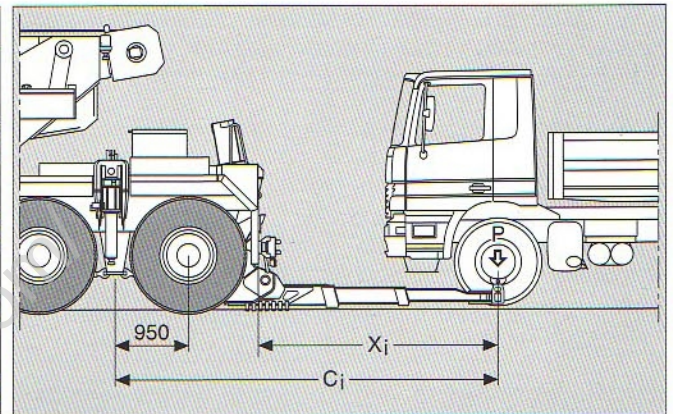
Underlift towing attachment with tilt cylinder, vertical beam and 2-fold telescopic lifting arm to pick-up the load.

Radio remote control and electro-hydraulic control at the rear right-hand side of the carrier. Hydraulic emergency control at the rear left-hand side of the carrier. Lifting cradle adjustable in width, optional.

Tilting angle	+ 10° / - 5°
Vertical adjustment	400 mm
Telescopic lifting arm	from 1.64 m to 3.11 m (with lifting cradle 3.79 m)
Deviation from horizontal	up to 7° possible

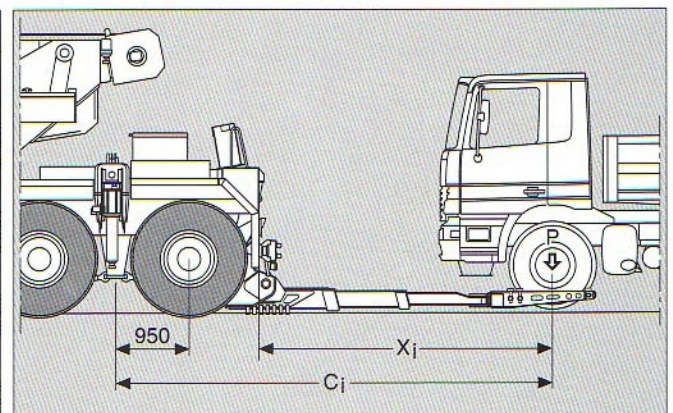
Permissible towing/lifting load P depending on the extended length of the underlift towing attachment

	With max. rear axle load 2 x 12 t		Rear axle loads > 12 t	
	X _i [mm]	C _i [mm]	permissible P [t]	technically possible P [t]
1	1640	3470	8.5	
2	1890	3720	8.2	
3	2140	3970	8.0	
4	2390	4220	7.8	13.7
5	2630	4460	7.6	
6	2870	4700	7.4	
7	3110	4940	7.2	

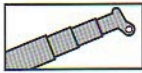


Permissible towing/lifting load P depending on the extended length of the underlift towing attachment plus the lifting cradle


	With max. rear axle load 2 x 12 t		Rear axle loads > 12 t	
	X _i [mm]	C _i [mm]	permissible P [t]	technically possible P [t]
1	2320	4150	7.9	
2	2570	4400	7.7	
3	2820	4650	7.5	
4	3070	4900	7.3	8.0
5	3310	5140	7.1	
6	3550	5380	6.9	
7	3790	5620	6.8	



Lifting capacities



DIN

 m	6.9 m	12.1 m	14.7 m	17.3 m	19.9 m	22.5 m
3.0	40.0*					
3.0	32.0					
3.5	28.7	22.0	13.5			
4.0	26.3	21.1	13.5	13.5		
4.5	23.2	20.1	13.5	13.5	12.5	
5.0	20.7	19.2	13.5	13.5	12.5	11.0
6.0		15.0	13.1	12.6	12.5	10.7
7.0		12.5	11.7	11.8	11.7	10.1
8.0		10.0	9.9	9.5	10.9	9.5
9.0		8.3	8.4	7.8	9.7	8.7
10.0		7.1	7.1	6.6	8.0	8.0
11.0			6.2	5.6	6.7	6.8
12.0			5.4	5.1	5.7	5.8
14.0				4.3	5.0	5.1
16.0					3.8	3.9
18.0					3.0	3.1
20.0					2.4	2.5
						2.0



I	0	100/0	100/0	100/0	100	100
II	0	0/50	25/75	50/100	75	100
III	0	0/50	25/75	50/100	75	100

* Over rear with superstructure locked plus additional equipment
 Tyres 16.00 R 25, drive 8 x 6, drum type winch 200 kN, towing device with lifting cradle

Remarks relating to rating charts

The lifting capacities in the structural area are based on DIN 15018 parts 2 and 3 and F.E.M.

The lifting capacities in the stability area are based on DIN 15019 part 2 / ISO 4305.

The maximum permissible wind speed for crane operation is 15 m/sec.

The lifting capacities shown are in metric tons.

The weight of load handling devices such as hook blocks, slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.

The working radius is the horizontal distance from the centre of rotation to the centre of the freely suspended non-oscillating load.

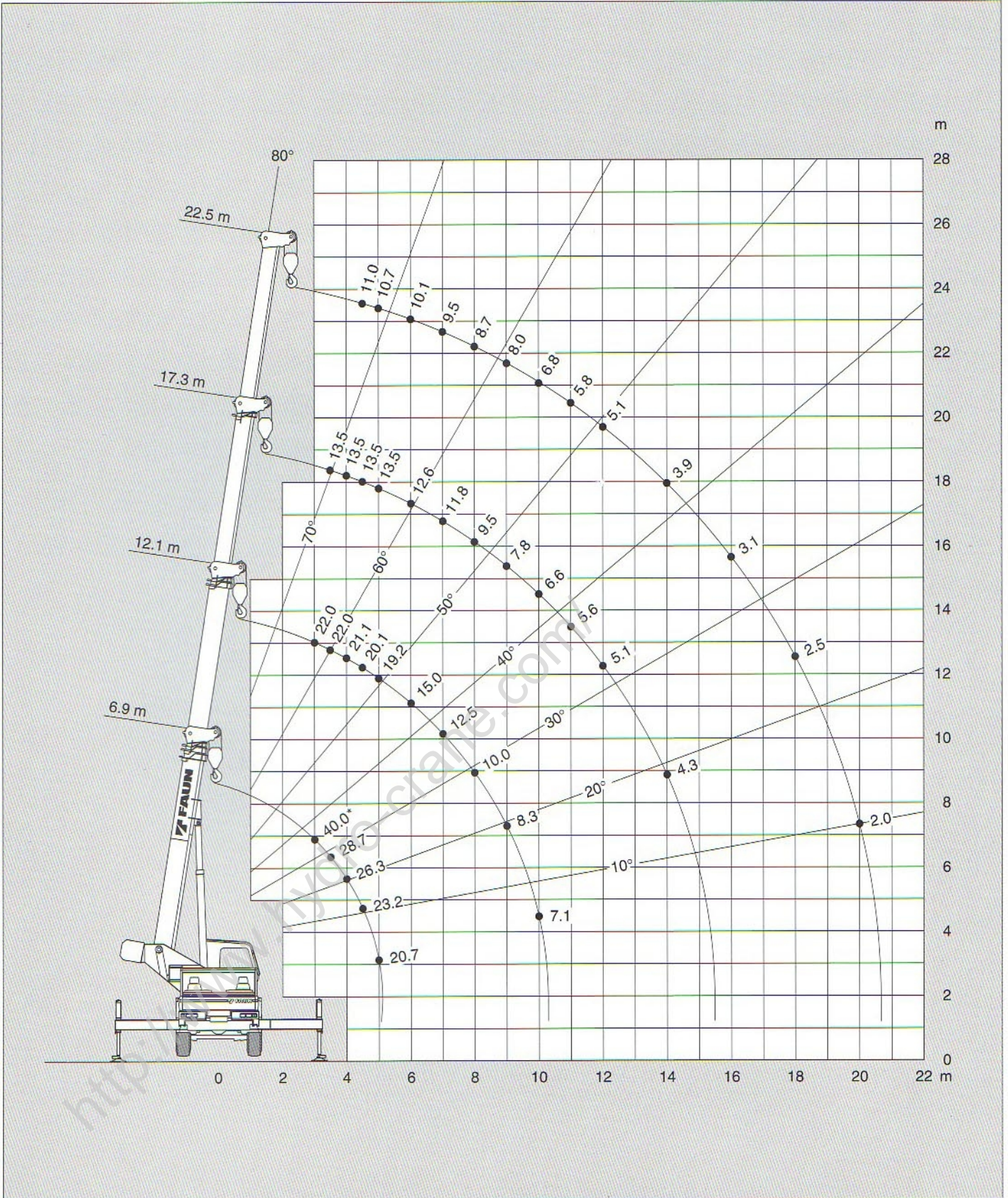
The lifting capacities are subject to change without prior notice.

The above remarks are for basic information only and the operator's manual must be consulted before operating this crane. All data and performances refer to the standard crane. The addition of optional and other equipment may affect the performance of the crane.

Lifting heights



DIN



* Over rear with superstructure locked plus additional equipment

Lifting capacities



DIN

m	8.6	11.9	15.2	18.5	21.9	25.2	28.5
3.0	40.0*						
3.0	30.0	22.0	22.0	13.5			
3.5	26.3	22.0	21.5	13.5			
4.0	24.4	21.4	20.6	13.5	13.5	11.0	
4.5	22.8	20.5	18.9	13.5	13.5	11.0	
5.0	21.2	19.2	17.3	13.5	13.5	11.0	9.0
6.0	16.4	15.8	14.8	13.5	13.1	10.6	9.0
7.0		12.8	12.1	12.6	11.4	10.1	8.7
8.0		10.2	10.4	10.0	9.8	9.3	8.2
9.0		8.4	8.6	8.3	8.0	8.2	7.6
10.0		7.1	7.3	6.9	6.7	6.8	7.0
11.0			6.2	6.1	5.7	5.8	6.0
12.0			5.5	5.6	4.9	5.0	5.2
14.0				4.3	4.2	3.8	4.0
16.0				3.5	3.5	3.0	3.1
18.0					2.8	2.3	2.4
20.0					2.3	1.8	1.9
22.0						1.4	1.5
24.0							1.2
26.0							0.9

	I	0	50/0	100/0	100/0/50	100/0	100	100
II	0	0/25	0/50	25/75/50	50/100	75	100	100
III	0	0/25	0/50	25/75/50	50/100	75	100	100

* Over rear with superstructure locked plus additional equipment
 Tyres 16.00 R 25, drive 8 x 6, drum type winch 200 kN, towing device with lifting cradle

<http://www.hydro-crane.com/>



Frame Torsion resistant, welded construction made from high strength, fine-grained steel.

Outriggers 4 point hydraulic outriggers with controls on both sides of carrier. Outrigger base 5.80 m (intermediate 4.14 m and 2.84 m) x 7.31 m.

Engine Mercedes-Benz 6 cylinder model OM 501 LA (Euromot 2/EPA 2), water-cooled diesel engine. Rated at 315 kW (428 HP) at 1800 min⁻¹. Torque 2000 Nm (204 kpm) at 1080 min⁻¹.

Transmission ZF-AS-Tronic model 16AS2602 mechanical transmission with electro-pneumatic actuated dry-type clutch and fully automatic gear shifting with 16 forward and 2 reverse gears.

Drive 8 x 6

Axles

1st axle: steered, driven.

2nd axle: steered, driven.

3rd axle: not steered, with connectable drive, lifted for crab steer.

4th axle: steered, driven.

All driven axles with transverse differential lock.

Suspension Hydro-pneumatic with levelling adjustment.

Brake system Service brakes: dual circuit compressed air system with ABS. Parking brake: spring loaded type acting on 1st and 2nd axle. Auxiliary brakes: engine exhaust brake and constant throttle engine brake system.

Tyres (8) 14.00 R 25.

Steering system ZF Servocom dual circuit hydraulic steering, mechanical hydraulically-assisted steering of front two axles (4th axle up to 20 km/h), emergency steering pump.

Carrier cab Two man full width cab of composite (steel sheet metal and fibre-glass) structure, safety glass, air-cushioned adjustable seats, engine dependent hot-water heater. Complete controls and instrumentation for road travel.

Electrical system 24 volt DC system, 2 batteries, conforms with EEC regulations.

Towing attachment Underlift towing attachment including recovery winch with 200 kN line pull.

Storage compartments extra-large, made of aluminium / stainless steel with roller shutters for easy access.



Frame Torsion-resistant, all-welded structure of high strength steel. Connected to carrier by single-row ball-bearing slewing ring with external gearing for 360° continuous rotation.

Engine No separate engine in the superstructure. Pumps driven by the carrier engine. Power output during crane operation: 300 kW (408 HP) at 1500 min⁻¹ (according to DIN 6270B/DIN 6271).

Hydraulic system Diesel hydraulic with 4 independent motions, 1 variable axial displacement piston pump (Load-sensing) and 1 gear pump. Oil tank capacity 520 l.

Controls Hydraulic, 2 joy-stick levers for simultaneous operation of crane motions.

Telescopic boom 4 section box type construction of high tensile, fine-grained steel, consisting of 1 base section and 3 telescoping sections. All telescope sections extendable under partial load. 6.9 m to 22.5 m long.

Derricking system 1 double acting hydraulic cylinder with integral brake and holding valve.

Main winch Axial piston constant displacement motor, winch drum with integrated planetary reduction and with hydraulically controlled spring-loaded, multiple disc brake and with integrated free rotation (no sagging of load when hoisting). Hoist cable with "Superstop" easy reeving system.

Slewing system Constant displacement motor with two-stage planetary reduction with a foot actuated service and a parking brake. Speed infinitely variable 0 - 2 min⁻¹.

Counterweight no counterweight required.

Superstructure cab Spacious all-steel panoramic cab with safety (tinted) glass windows, hydraulically-cushioned adjustable seat, engine independent hot-water heater. Complete controls and instrumentation for crane operation.

Electrical system 24 volt DC system.

Safety devices Load moment device (LMD), hoist limit switch, lower limit switch, drum turn indicator, safety valves against pipe and hose rupture, holding valves on hydraulic cylinders.

**Optional equipment - Carrier** (against extra charge)

1. 8 x 8 drive
2. Recovery winch "Treibmatic" with 200 kN constant line pull and cable remote control (alternative to the standard)
3. Additional recovery winch with 100 kN line pull (not in combination with "Treibmatic") with radio remote control
4. Eddy-current retarder brake
5. 12 V trailer connection (rear)
6. External hydraulic connector for recovery tools
7. Lifting cradle adjustable in width
8. Wheel securing chains for the lifting cradle
9. Reversing video system
10. 5th wheel for towing semi trailers
11. Additional independent diesel heater (Air-Top)
12. Central lubrication system
13. Guide sheave for two line pull
14. Additional storage box, two sections, on both sides of the carrier, below the roller shutter compartments
15. Additional storage box, one section (alternative to 14.)
16. Special painting and lettering

Optional equipment - Superstructure (against extra charge)

1. Alternative telescopic boom 8.6 m to 28.5 m long
2. 12.5 t hook block, 1-sheave, single hook
3. 32 t hook block, 3-sheave, single hook
4. 32 t hook block, 3-sheave, double hook
5. Central lubrication system
6. Spare wheel bracket (not in combination with 8. Tool box)
7. Spare wheel
8. Tool box (not in combination with 6. Bracket)
9. Two working lights on boom base section (adjustable from super-structure cab)
10. Working light, suspended from boom point
11. Special painting and lettering

Further optional equipment available upon request.

