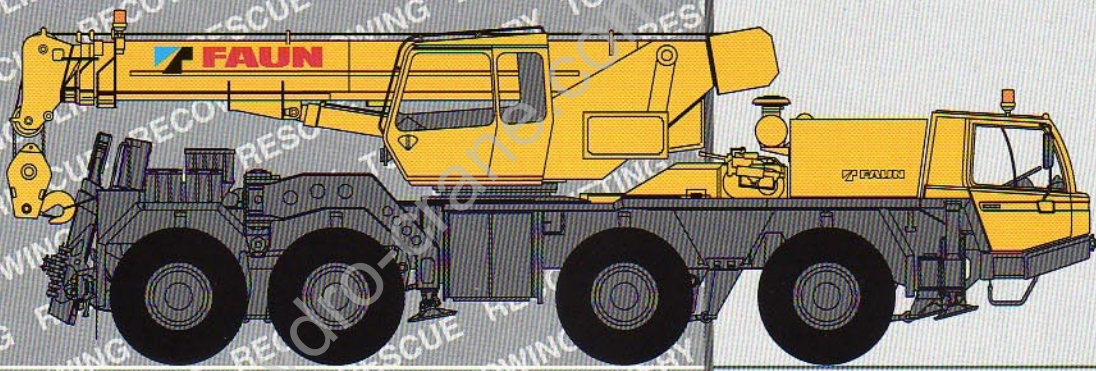
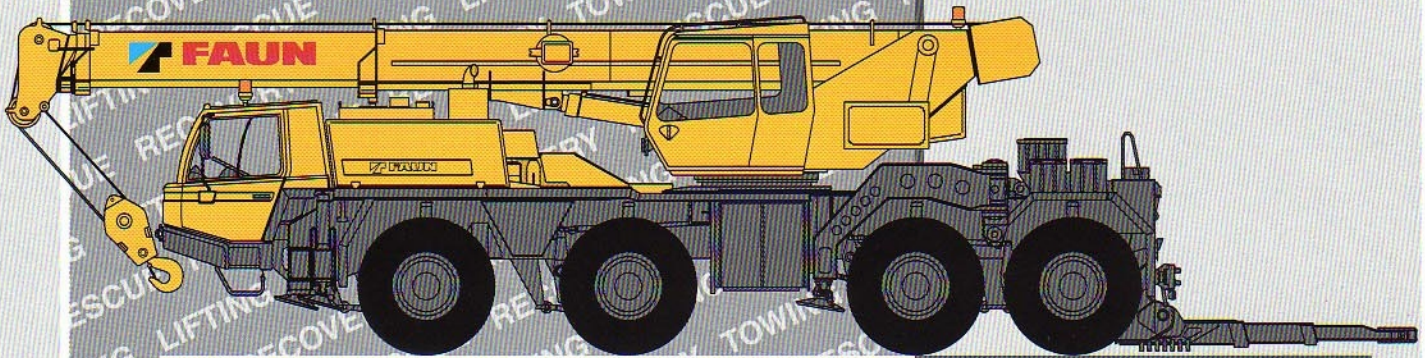


RECOVERY VEHICLE
BKF 35-4

ISO 9001



24

	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			
	D → 00 49			
				
				
	07 49		00 949	

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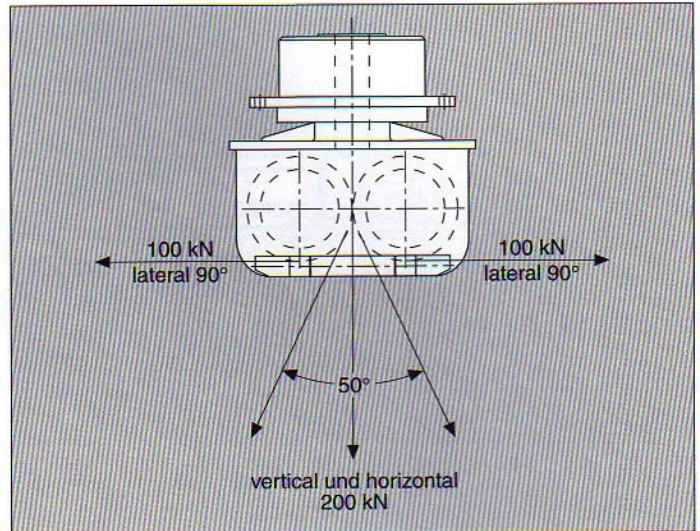
Recovery

Rope winch

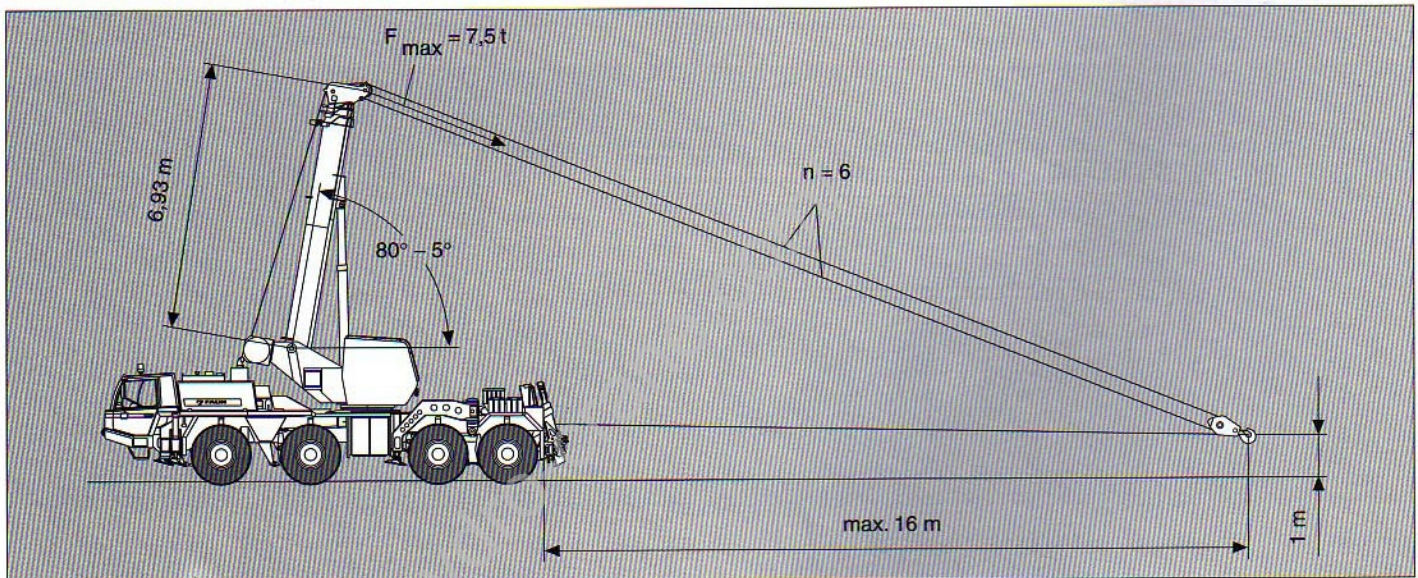
Hydraulic rope winch, with two speeds and proportional control for recovery operation. Connector for operating device with coiled cable in the rear on the right.

Rope diameter 24 mm
 Rope length up to 75 m
 Rated load up to 200 kN

Rope pull via propeller pulley installed in rear of vehicle



Recovery pull via crane boom and hoist winch



Work during recovery pull is only admissible under the following conditions:

- Horizontal swing level
- Boom over-rear, superstructure locked and slewing brake engaged
- Boom completely retracted
- Boom angle 80° - 5°
- Rear axle locked
- Diagonal pull max. 7,5 t
- Permissible lateral deviation of hook block $1^\circ \pm 0,5^\circ$ with reference to longitudinal axis of vehicle

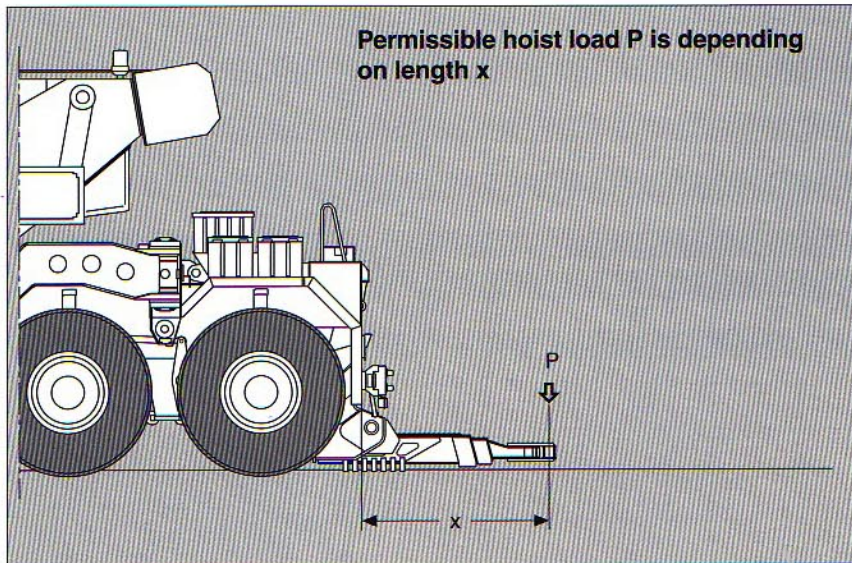
Towing

Towing device

Towing cradle with tilt cylinder, vertical telescope and 2-stage extendable jib for pick-up of the load.

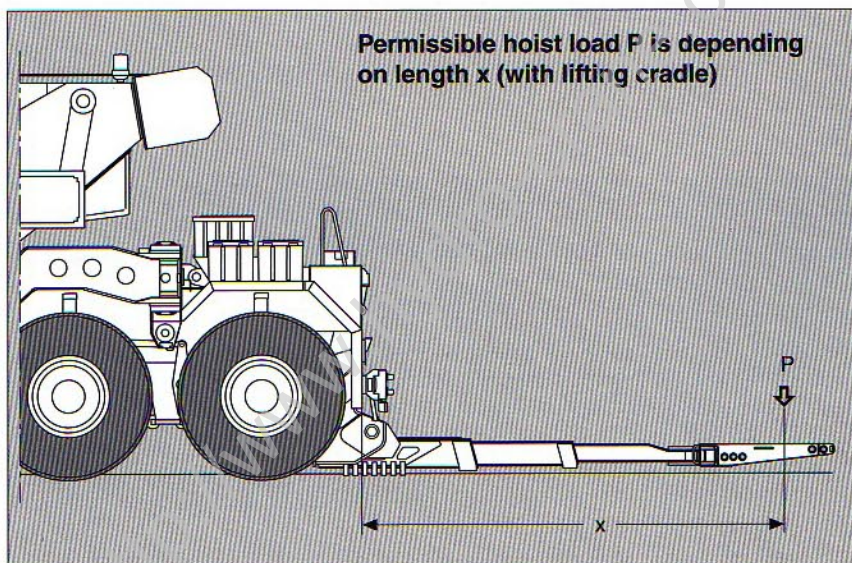
Electric-hydraulic control in the rear of the vehicle, on the right
 Hydraulic emergency control in the rear of the vehicle, on the left
 Lifting cradle, adjustable in width, see optional equipment.

Tilting angle + 10°/- 5°
 Vertical adjustment 400 mm
 Boom from 1,83 m to 3,76 m (lifting cradle) extendable
 Mechanical boom locking



Permissible load at rear axle load: 2 x 12000 kg

Working radius (x)	Hoisting load P (at 2 x 12000 kg)
1830 mm	8050 kg
2080 mm	7800 kg
2330 mm	7600 kg
2580 mm	7400 kg
2820 mm	7200 kg
3060 mm	7050 kg
3300 mm	6850 kg



Permissible load at rear axle load: 2 x 12000 kg

Working radius (x)	Hoisting load P (at 2 x 12000 kg)
3040 mm	7100 kg
3280 mm	6900 kg
3520 mm	6700 kg
3760 mm	6600 kg

Lifting capacities on telescopic boom

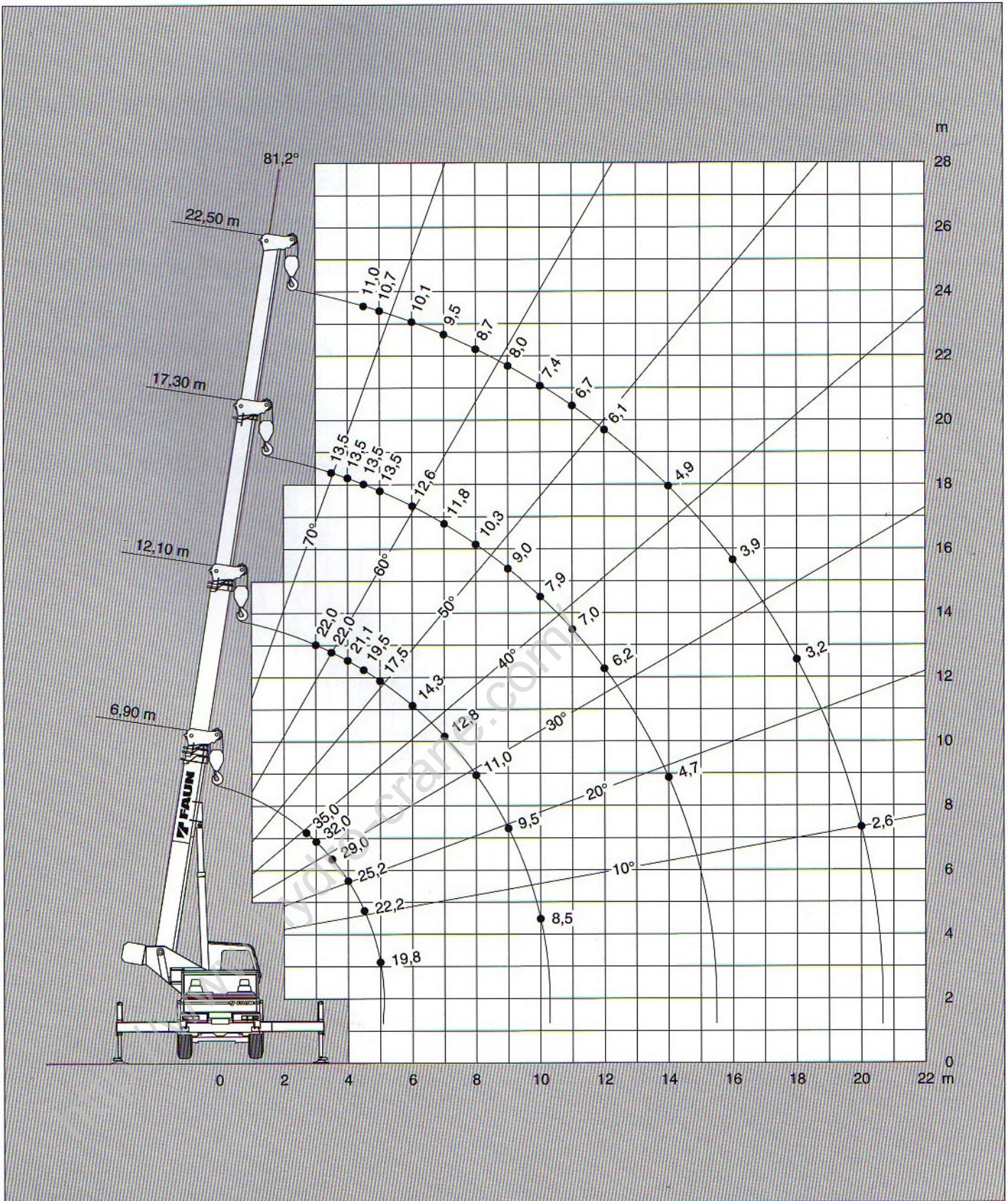


DIN

m 2.7 3.0 3.5 4.0 4.5 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 14.0 16.0 18.0 20.0	6,90 m	12,10 m	12,10 m	14,70 m	14,70 m	17,30 m	17,30 m	19,90 m	22,50 m
2.7	35,0								
3.0	32,0	22,0	13,5	13,5	13,5				
3.5	29,0	22,0	13,5	13,5	13,5	13,5	11,5		
4.0	25,2	21,1	13,5	13,5	13,5	13,5	11,5	12,5	
4.5	22,2	19,5	13,5	13,5	13,2	13,5	10,7	12,5	11,0
5.0	19,8	17,5	13,5	13,5	12,9	13,5	10,0	12,5	10,7
6.0		14,3	13,5	13,1	12,3	12,6	8,9	11,7	10,1
7.0		12,0	12,8	12,0	10,9	11,8	8,0	10,9	9,5
8.0		10,4	11,0	10,4	9,9	10,3	7,2	9,7	8,7
9.0		9,0	9,5	9,0	9,0	9,0	6,6	8,9	8,0
10.0		7,6	8,5	7,8	8,2	7,9	6,1	8,0	7,4
11.0				6,9	7,5	7,0	5,6	7,1	6,7
12.0				6,0	6,7	6,2	5,1	6,1	6,1
14.0						4,7	4,4	4,8	4,9
16.0								3,8	3,9
18.0								3,1	3,2
20.0									2,6
% I II III	0	100	0	100	0	100	0	100	100
	0	0	50	25	75	50	100	75	100
	0	0	50	25	75	50	100	75	100

Remarks relating to rating charts



- The capacities shown do not exceed 75% or 85% of the tipping load.
 - The capacities shown comply with DIN 15019 (Part 2) and DIN 15018 (Part 3).
 - Maximum allowable wind speed by crane operation is 15 m/sec.
 - The capacities shown are in metric tons.
 - The weight of load handling devices such as hook blocks, slings, etc., shall be considered part of the load.
 - The radius is the distance from the centre of rotation to the centre of the load.
 - The telescopic boom capacities apply to a machine without any boom extensions being on the machine.
- The above remarks are for basic information only and the operator's manual must be consulted before operating this machine. All data and performances refer to a standard machine. The additional of optional or other equipment may affect the performance of the machine.



Lifting capacities on telescopic boom



DIN

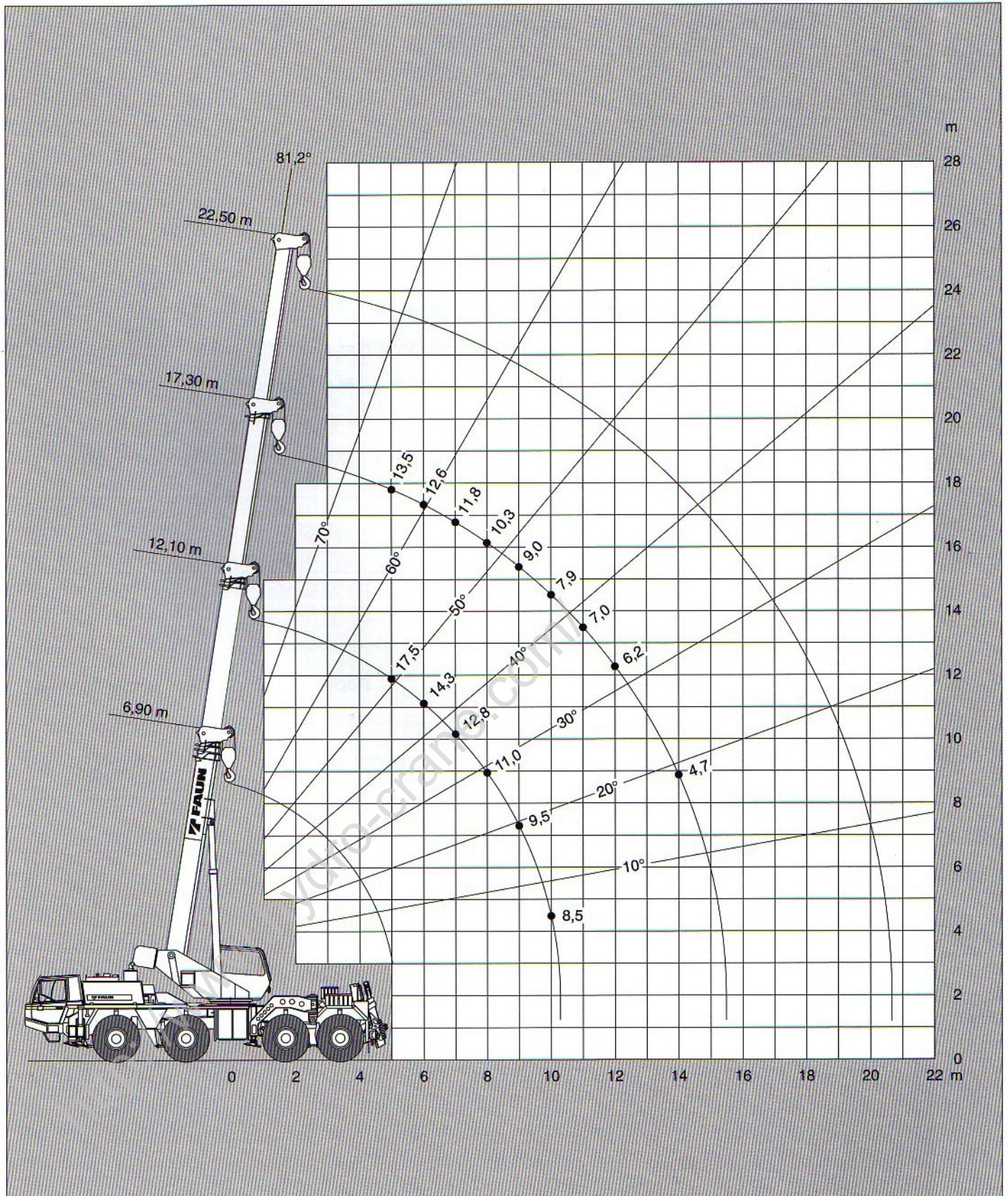
 m	6,90 m	12,10 m	12,10 m	14,70 m	14,70 m	17,30 m	17,30 m	19,90 m	22,50 m
2.7									
3.0									
3.5									
4.0									
4.5									
5.0		17,5	13,5	13,5	12,9	13,5	10,0		
6.0		14,3	13,5	13,1	12,3	12,6	8,9		
7.0		12,0	12,8	12,0	10,9	11,8	8,0		
8.0		10,4	11,0	10,4	9,9	10,3	7,2		
9.0		9,0	9,5	9,0	9,0	9,0	6,6		
10.0		7,6	8,5	7,8	8,2	7,9	6,1		
11.0				6,9	7,5	7,0	5,6		
12.0				6,0	6,7	6,2	5,1		
14.0						4,7	4,4		
16.0									
18.0									
20.0									
 %	I	100	0	100	0	100	0		
	II	0	50	25	75	50	100		
	III	0	50	25	75	50	100		

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Lifting heights



DIN








Weights / Working speeds

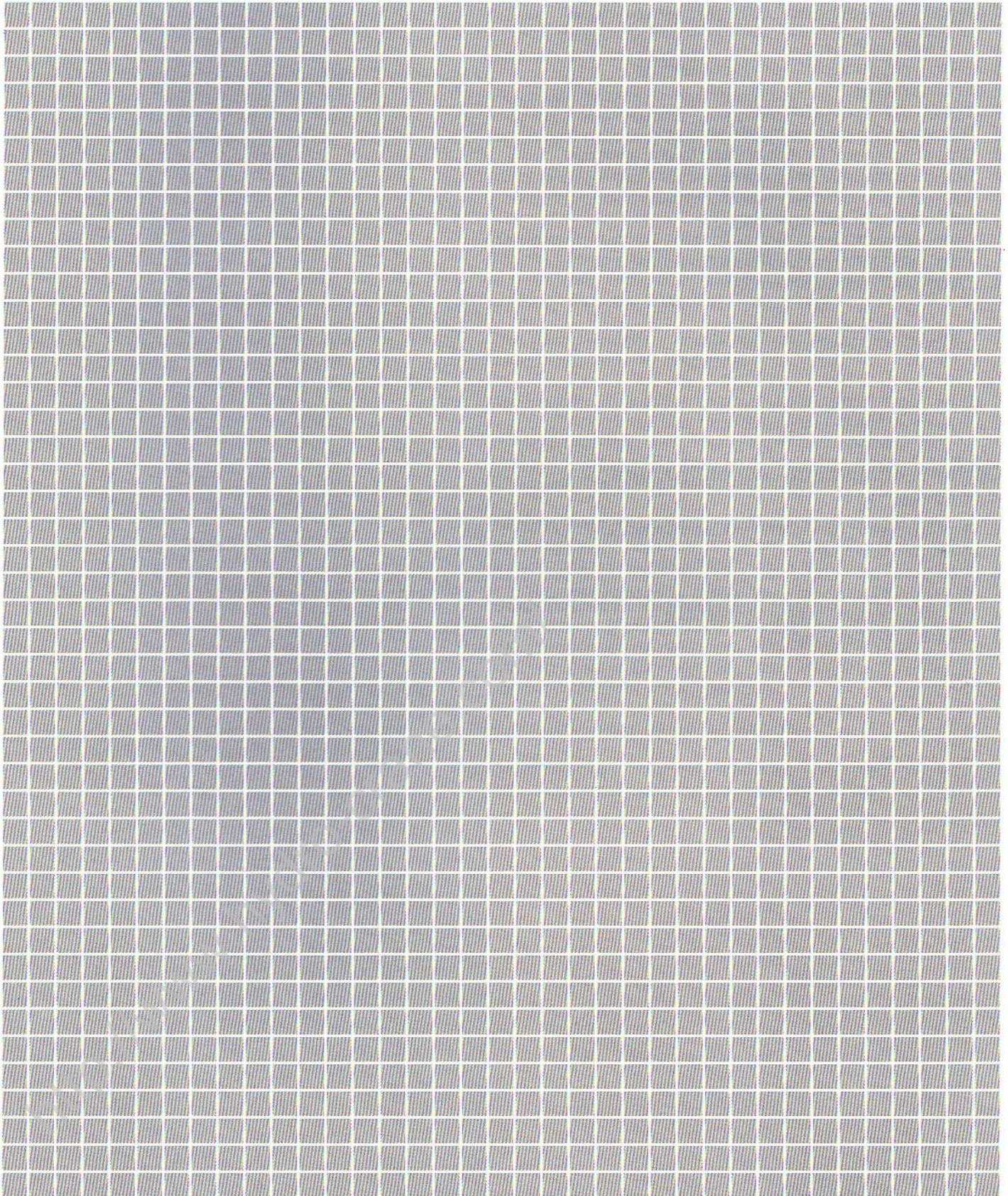
 Single hook	Lifting capacity	Sheaves	Parts of line	Weight
	32 t	3	7	300 kg



	1	2	3	4	5	6	7	8	9	10	11	12	1.R	2.R			
		0 - 5,2	6,7	8,7	11,1	14,1	18,1	23,8	30,6	29,5	50,7	64,4	82,5	0 - 5,6	7,2	70 t	62 t
	0 - 3,0	3,9	5,0	6,5	8,2	10,5	13,8	17,8	22,9	29,4	37,3	47,8	0 - 3,3	4,2	31,8%	36,7%	93,0%
	16.00 R 25																

*) Theoretic value over 100%

	Ininitely variable	Rope	Max. single line pull
	0 - 130 m/min single line	16 mm / 170 m	50 kN
	0 - 2,0 min ⁻¹		
	-1° to +80° approx. 23 s		
	6,9 m to 22,5 m approx. 55 s		



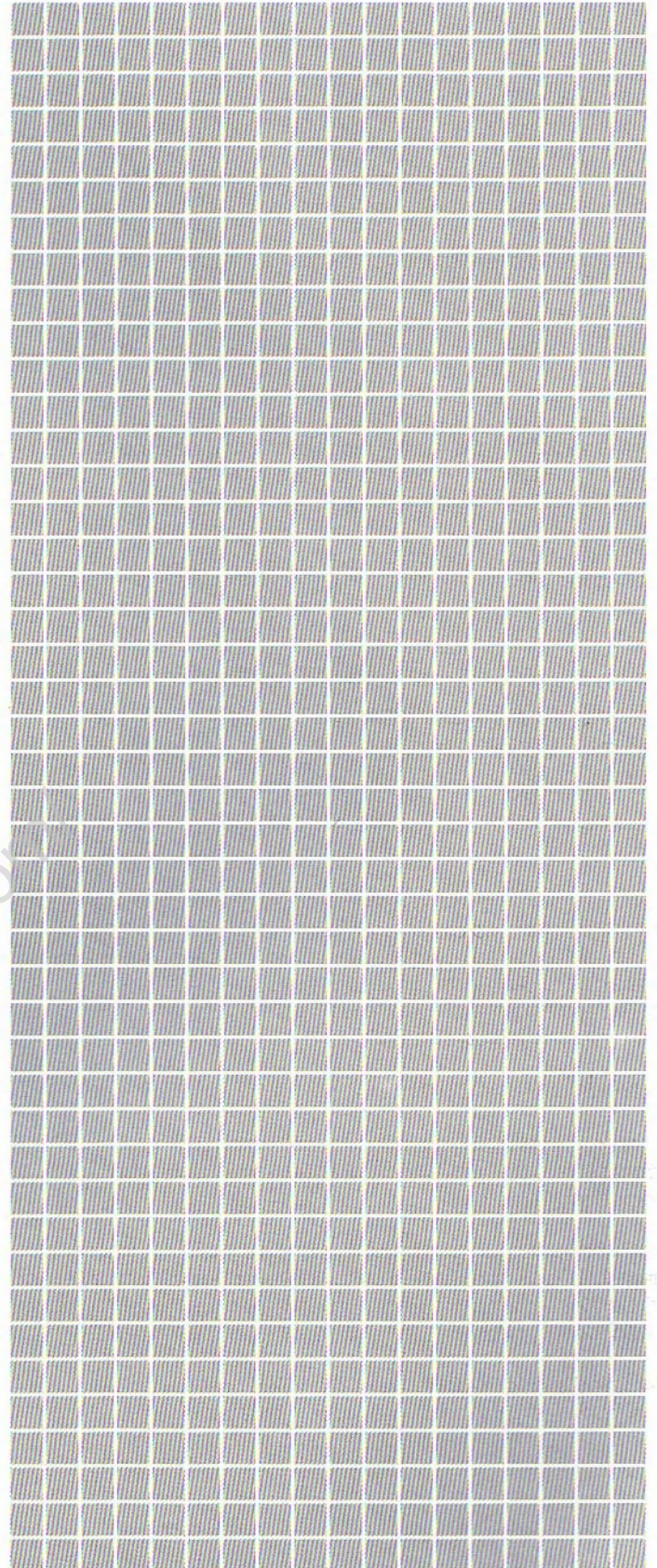
**Optional equipment - Chassis** (at extra charge)

1. 12 V plugbox at the rear
2. Engine-independent hot-air diesel heating
3. Air conditioning
4. Special painting and lettering
5. Special equipment according to standard list
6. Special equipment for recovery and towing operation
7. Remote control for towing cradle with 5 m cable
8. 2 portable search lights - explosion-proof in carrier cab with recharger plug
Power supply 12 V 30 V
integrated 220 V charger in portable search light
9. Lifting cradle adjustable in width

Optional equipment - superstructure

(at extra charge)

1. Special painting and lettering (superstructure and telescopic sections)
2. Emergency crane controls
3. Working light on boom base section, controlled from cab
4. Floodlight, suspended from boom point
5. Central lubrication system



<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. Front beams extending horizontally, rear beams swinging-out. Outrigger base 7.44 m x 6.20 m. Control by level ganges. Operation of outriggers only possible on the carrier side of actuation.

Engine Mercedes-Benz 6 cylinder, water-cooled diesel engine model OM 501 LA (Euro 2). Rated at 290 kW (394 HP) at 1800 rpm. Torque 1850 Nm (187 kpm) at 1080 rpm.

Transmission Automatic transmission with electronically-pneumatically controlled clutch with 12 forward and 2 reverse gears. Joystick controlled driving motions and operator's information via display. Two-stage transfer case type Steyr VG 1600 with on and off road range.

Drive Permanent drive of 1st, 2nd and 4th axle, 3rd axle connectable.

Axles

1st axle: steered, driven,
2nd axle: steered, driven,
3rd axle: rigid, drive connectable,
4th axle: steered, driven,
All driven axles with differential locks.

Suspension Hydro-pneumatic with levelling and wheel load adjustment.

Brake system Service brakes: dual circuit compressed air system. Parking brake: spring loaded type acting on 2nd, 3rd and 4th axle. Auxiliary brakes: engine exhaust brake and constant throttle engine brake system. Non-braking towing load with towing rod approx. 20000 kg on towing cradle approx. 30000 kg*)

Tyres (8), 16.00 R 25 with on/off road profile.

Steering system ZF semi-block dual circuit hydraulic steering, 1st, 2nd and 4th axle, hydraulically assisted and permanently steered.

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

Electrical equipment 24 volt DC system, 2 batteries, 80 A generator, conforms with EEC regulations.



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.

Hydraulic system Diesel hydraulic with 4 independent motions, 1 variable piston pump (load sensing) and 1 gear pump for the slewing system. All driven by the crane engine.

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. 6.90 m to 22.50 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 from 0 - 1.5 rpm.

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

Electrical system 24 volt DC system.

Safety devices Load moment device (LMD), safety valves against pipe and hose rupture, lower limit switch.