

Lifting Capacities (t) on Maxi-Lift-Equipment

with 21 m Maxi-Lift Mast
 Outrigger base 11,5 m
 Stewing Range 360°
 Counterweight 55 t
 and additional ballast 100, 150 or 200 t
 DIN-Ratings

Radii m	Boom length											
	24,6 m			35,6 m			46,6 m			57,1 m		
	Additional Ballast											
	100 t	150 t	200 t	100 t	150 t	200 t	100 t	150 t	200 t	100 t	150 t	200 t
7	175	230	290									
8	155	205	255	155	198							
9	137	185	230	139	185		140	160				
10	123	166	206	125	167	198	126	160				
12	100	137	165	102	138	175	103	139	160	107	112	
14	84	116	135	85	117	149	86	118	150	90	100	
16	72	99	109	72	100	129	73	101	129	77	91	
18	61	86		63	88	113	63	89	114	66	82	
20	53	69		54	77	99	54	78	100	58	76	
22				47	68	89	47	69	90	51	70	
24				41	61	80	42	61	81	45	64	65
26				36	54	70	36	55	72	40	58	61
28				32	48	60	32	49	66	36	53	58
30				27	44	50	28	45	60	32	47	55
32							25	40	54	29	43	52
34							22	36	50	26	39	50
36							19	33	46	23	36	48
38							17	29	41	20	33	45
40							15	27	36	18	30	42
42										16	27	39
44										14	25	36
46										12,5	23	33
48										11	21	30
50										10	19	26
52										9	18	22

Remarks concerning the lifting capacities:
 See page 5.

ASSOCIATED CRANE HIRE COMPANIES IN U.K.

HEWDEN STUART CRANE HIRE DIVISION OFFICE, CASTLEFORD
Telephone (0977) 556355 Telex: 557307 LIFTIN G

STANLEY DAVIES CRANE HIRE LIMITED, CASTLEFORD
Telephone (0977) 553091 Telex: 557307 LIFTIN G

STANLEY DAVIES CRANE HIRE LIMITED, STOCKTON
Telephone (0642) 65729/65882/616953

STANLEY DAVIES CRANE HIRE LIMITED, SHEFFIELD
Telephone (0742) 738345

STANLEY DAVIES CRANE HIRE LIMITED, BIRMINGHAM
Telephone (0922) 613245

STEPHENSONS (CRANE HIRE) LIMITED, MANCHESTER
Telephone 061-872-0667

R. GRIFFITHS CRANE HIRE LIMITED, BLACKBURN
Telephone (0254) 51717

R. GRIFFITHS CRANE HIRE LIMITED, BARROW-IN-FURNESS
Telephone (0229) 37474

WOOLFENDEN'S CRANES LIMITED, RUNCORN
Telephone (092 85) 76124

B. & L. CRANE HIRE LIMITED, GRIMSBY
Telephone (0469) 75158

WOLFF DAVIES TOWER CRANES LIMITED, CASTLEFORD
Telephone (0977) 558831 Telex: 556108

HEWDEN STUART CRANE HIRE DIVISION OFFICE, GLASGOW
Telephone 041-641-7755 Telex: 778626

R.G. STUART (PLANT) LIMITED, CAMBUSLANG, GLASGOW
Telephone 041-641-2251 Telex: 778626

CRANE HIRE (PAISLEY) LIMITED, PAISLEY, RENFREWSHIRE
Telephone 041-887-3651

STEWART CRANE HIRE LIMITED, DUNDEE
Telephone (0382) 66264

STEWART CRANE HIRE LIMITED, INVERNESS
Telephone (0463) 35555

STEWART CRANE HIRE LIMITED, PETERHEAD
Telephone (0779) 78104/5/6

STEWART CRANE HIRE LIMITED, ABERDEEN
Telephone (0224) 876179

INTERNATIONAL RIGGING AND CRANE HIRE COMPANIES

HEWDEN STUART LIFTING SERVICES LIMITED, CARDIFF, U.K.
Telephone (0446) 760777 Telex: 498189 ATLIFT

HEWDEN STUART LIFTING SERVICES LIMITED, LONDON, U.K.
Telephone 01-373-6755

AL JABER HEAVY CRANES, ABU DHABI, U.A.E.
Telephone 010 971 2553707 Telex: 22379

AL-SALEM ARABIAN HEAVY LIFTING, SAUDI ARABIA
Telephone 010 9663 8338611/4082 Telex: 602263

HEWDEN STUART CRANE HIRE DIVISION, LONDON SALES OFFICE
Telephone 01-373-6755/01-370-7391 Telex: 557307

HEWDEN STUART LIFTING SERVICES LIMITED, CASTLEFORD, U.K.
Telephone (0977) 559094 Telex: 557307 LIFTIN G

Carrier

Frame:	Rigid built torsion-free steel weldment of box construction
Outriggers:	Hydraulic sideways folding and extendable outrigger basis 11,5 x 12,4 m, reducable to 8,0 m
Engine:	Mercedes-Benz-Diesel engine OM 4041, 12 cylinder, water-cooled, 20,91 litres c.c.; supercharged output according to DIN: 386 kW (520 HP) at 2300 r.p.m. With Allison-converter-power-shift-automatic transmission CLBT 754 incl. retarder, max. brake output: 294 kW (400 HP), 5 forward gears, one reverse gear, torque multiplication $i = 2,04$ Fuel tank: 1500 litres
Axles:	18 x 8 drive, planetary axles, all axles are hydro-pneumatic spring mounted and mounted on trailing and stabilizing rods Axles 1 to 3 as well as 4 to 9 are hydraulically group balanced Axles 1 to 4 as well as 7 to 9 are steerable, ZF-hydro steering Axles 2, 3, 6 and 7 are driven Lockable differential in longitudinal direction between axles 2 and 3, 6 and 7, as well as in transfer box
Brakes:	Dual circuit compressed air brake system, acting on all wheels, handbrake acts on axles 3 to 6, 8 and 9, retarder and engine exhaust brake acts on all driven axles
Tyres:	set of 18, 14.00-24, 22 ply, S + G profile, rims 10.0-24
Electrical system:	24 volt with 1.000 watt, three phase dynamo, lighting in accordance with EEC regulations
Cab:	Two-man low-line cab with engine independent heater, additional auxiliary seat

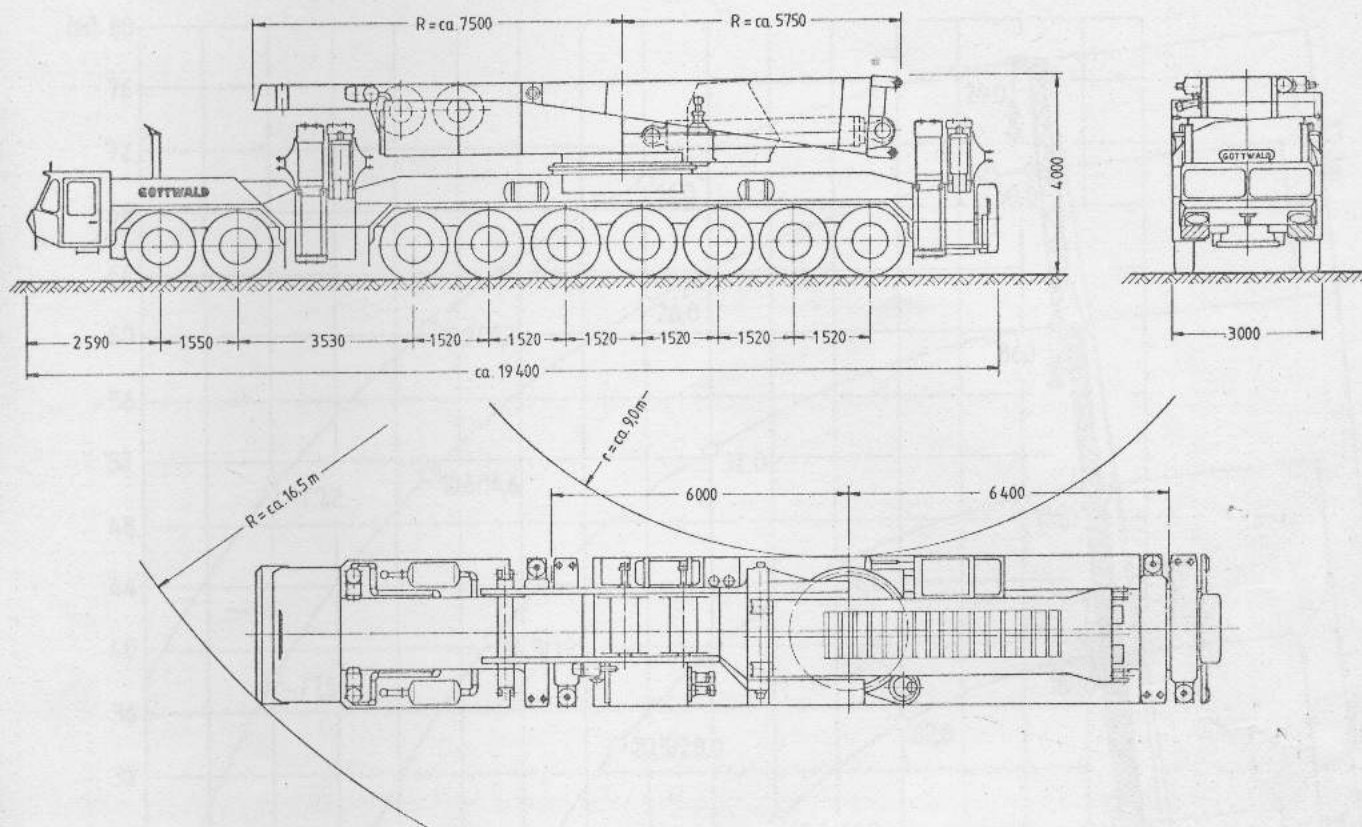
Crane superstructure

Frame:	Rigid built torsion-free weldment with ball bearing slewing rim
Crane Cab:	with safety glass, operating and control instruments, Diesel heater
Engine:	Mercedes-Benz-Diesel engine OM 407 A, 6 cylinder, water-cooled, 11,41 l c.c., supercharged, output according to DIN: 186 kW (253 HP) at 1800 r.p.m.
Hydraulic system:	Axial piston double pump and auxiliary pump for 3 independent operating circuits, 3 fourway hand control levers, Speeds infinitely variable
Hoist gear:	2 Hoist gears through hydro motors, automatic brakes, Rope pull/rope speed: each 133 kN (DIN-Ratings) up to approx. 30 m/min 30,0 kN up to 100 m/min
Slewing gear:	Hydro-motor, planetary gear, automatic brakes, - ca. 0,4 r.p.m.
Derricking gear:	two double-acting hydraulic cylinders with lowering brake valves
Counterweight:	96 t, multi-sectioned, hydraulically removable

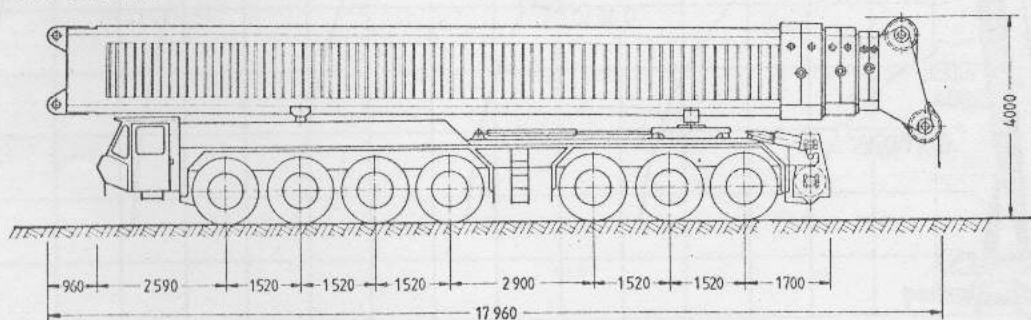
Crane equipment

Telescopic main boom:	Basic boom with 3 telescope sections, all can be telescoped under load, boom length 57,1 m For fly jib operation and heavy loads the telescope sections will be pneumatically locked
Fly Jib:	Lattice type, 28,0 m long, extendable up to 70,0 m, for luffing operation. optional: Fly extension 17,0 m
Hook blocks:	400 t with double hook, 14-sheaved 200 t with double hook, 7-sheaved (standard) 75 t with double hook, 3-sheaved 32 t with single hook, 1-sheaved
Safety Equipments:	Hoist- and lowering limit switch, angle indicator, safety valves against pipe and hose fractures, automatic safe load limiter

85 t TRANSPORT WEIGHT WITHOUT BOOM



77 t TRANSPORT WEIGHT



Lifting Capacities (t) on Main Jib

Crane propped,
Slewing Range 360°,
Counterweight 96 t

Radii	Length of Boom						
	14 m*)	24.6 m	35.6 m	46.6 m	57.1 m	57.1 + 10 m	57.1 + 17 m
m	DIN	DIN	DIN	DIN	DIN	DIN	DIN
3.5	350						
4	330	300					
5	290	240					
6	230	205	180				
7	205	170	166				
8	180	153	153	126			
9	165	140	139	118			
10	155	126	126	110	86	50	
12	135	108	108	97	77	47	29
14		95	94	84	69	44	27
16		83	82	73	61	41	25.5
18		72	72	64	55	38.5	24
20		62	62	56	49	36	22.5
22			54	48	44	34	21.2
24			45	43	39	32	20
26			38	39	35	30.5	18.8
28			32	33	32	29	17.8
30			28	29	29	27.5	16.8
32			23	24	27	26	16
34				20.5	24	23.5	15.2
36				18	21	21	14.4
38				15	19	18.8	13.7
40				13	16	16.4	13
42				10	14	14.1	12.5
44					12.5	12.3	11.8
46					10.5	10.6	10.2
48					9	9	8.6
50					8	7.6	7.2
52						6.3	6

*) special boom head is required

Remarks concerning the lifting capacities:
See page 5.

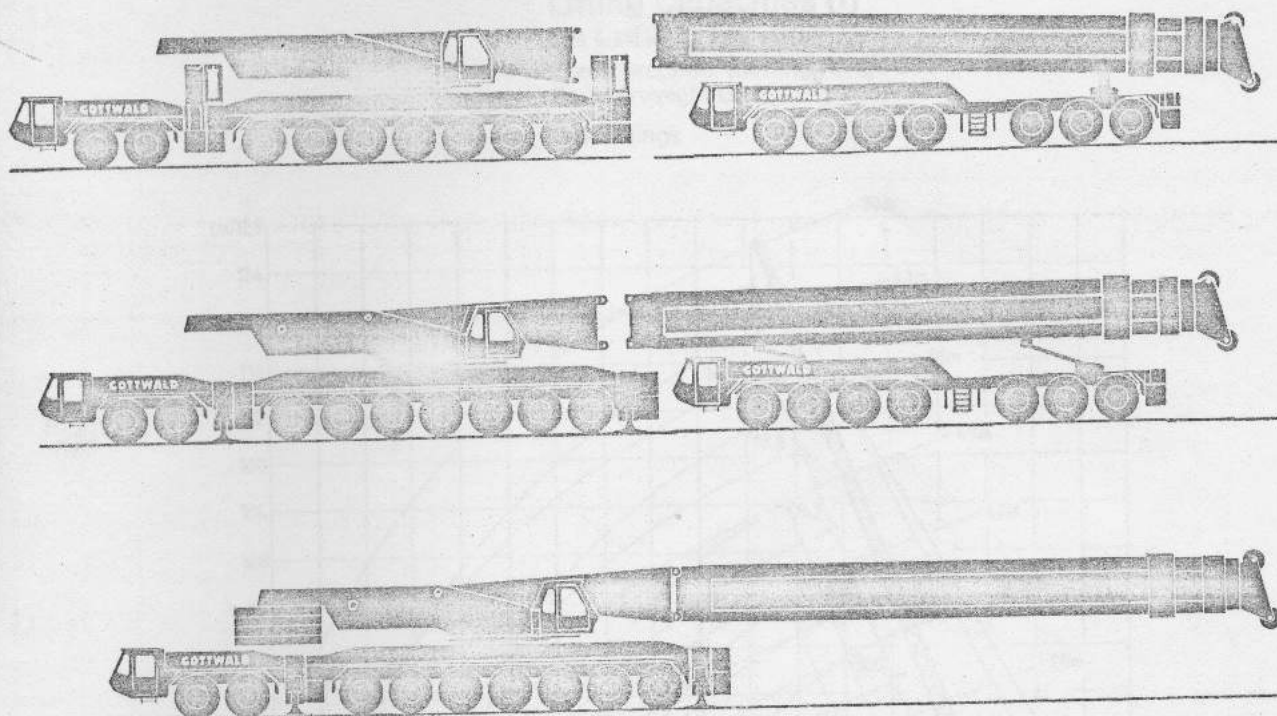
Lifting Capacities (t) on Main Jib

Crane propped,
Slewing Range 2 x 10°,
Counterweight 96 t

Radii	Length of Boom						
	14 m*)	24.6 m	35.6 m	46.6 m	57.1 m	57.1 + 10 m	57.1 + 17 m
m	DIN	DIN	DIN	DIN	DIN	DIN	DIN
3.5	400						
4	380	320					
5	340	280					
6	280	240	180				
7	245	200	166				
8	210	175	153	126			
9	190	160	139	118			
10	175	141	126	110	86	50	
12	145	123	108	97	77	47	29
14		100	94	84	69	44	27
16		86	82	73	61	41	25.5
18		73	72	64	55	38.5	24
20		63	63	56	49	36	22.5
22			55	48	44	34	21.2
24			49	43	39	32	20
26			43	39	35	30.5	18.8
28			39	37	32	29	17.8
30			34	33	29	27.5	16.8
32			29	30	27	26	16
34				28	24	24.8	15.2
36				25	22	23.5	14.4
38				22	21	22.5	13.7
40				20	20	21.5	13
42				17	19	19	12.5
44					17	16.6	11.8
46					15.5	14.6	11.2
48					14.5	12.8	10.8
50					13	11.2	10.2
52						9.8	9.5
54						8.5	8.2
56						7.5	7.2

*) special boom head is required

Remarks concerning the lifting capacities:
See page 5.



Travelling speeds (km/h)
at max. engine speed of 2300 r.p.m.

GEAR	1.	2.	3.	4.	5.	R.
GEAR RATIO	5,18	3,19	2,07	1,40	1,0	4,48
ON ROAD	0-12,9	20,9	32,1	47,6	66,6	0-14,8
OFF ROAD	0- 9,1	14,2	22,2	33,5	46,8	0-10,6

Remarks concerning the Lifting Capacities

Lifting Capacities = Actual Load + Snatch
Block + Auxiliary Equipment.

By simultaneous mounting of the Fly Jib,
the load capacities are reduced on the
Main Jib.

The Lifting capacities are valid for even and
stable ground.

DIN: The Lifting Capacities do not exceed
75% of the tipping load. They correspond to
DIN 15019.2 (Test load = 1,25 x Hoist load
+ 0,1 x Jib-own weight, reduced on the Jib
Head).

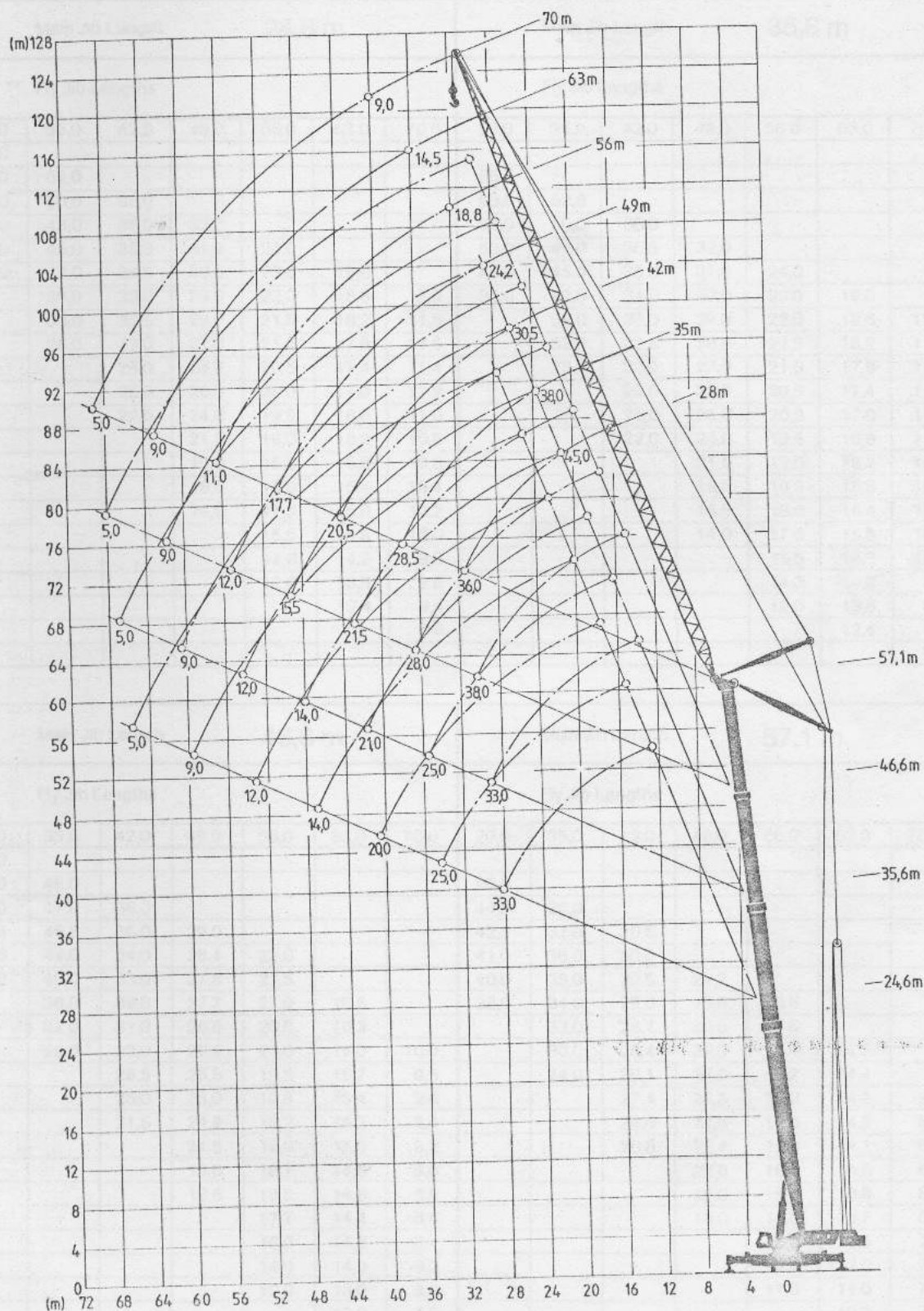
85%: The Lifting Capacities do not exceed
85% of the tipping load.
Test load = 1,1 x Hoist load.

We reserve the right to modify the
construction, the technical data as well
as the weights and dimensions.

Lifting Capacities (t) on Luffing Fly Jib

Crane propped, Slewing Range 360°,
Counterweight 63 t,

DIN-Ratings



Remarks concerning the lifting capacities:
See page 5.

Lifting Capacities (t) on Luffing Fly Jib

Crane propped, Slewing Range 360°

Counterweight 63 t

Main Jib locked

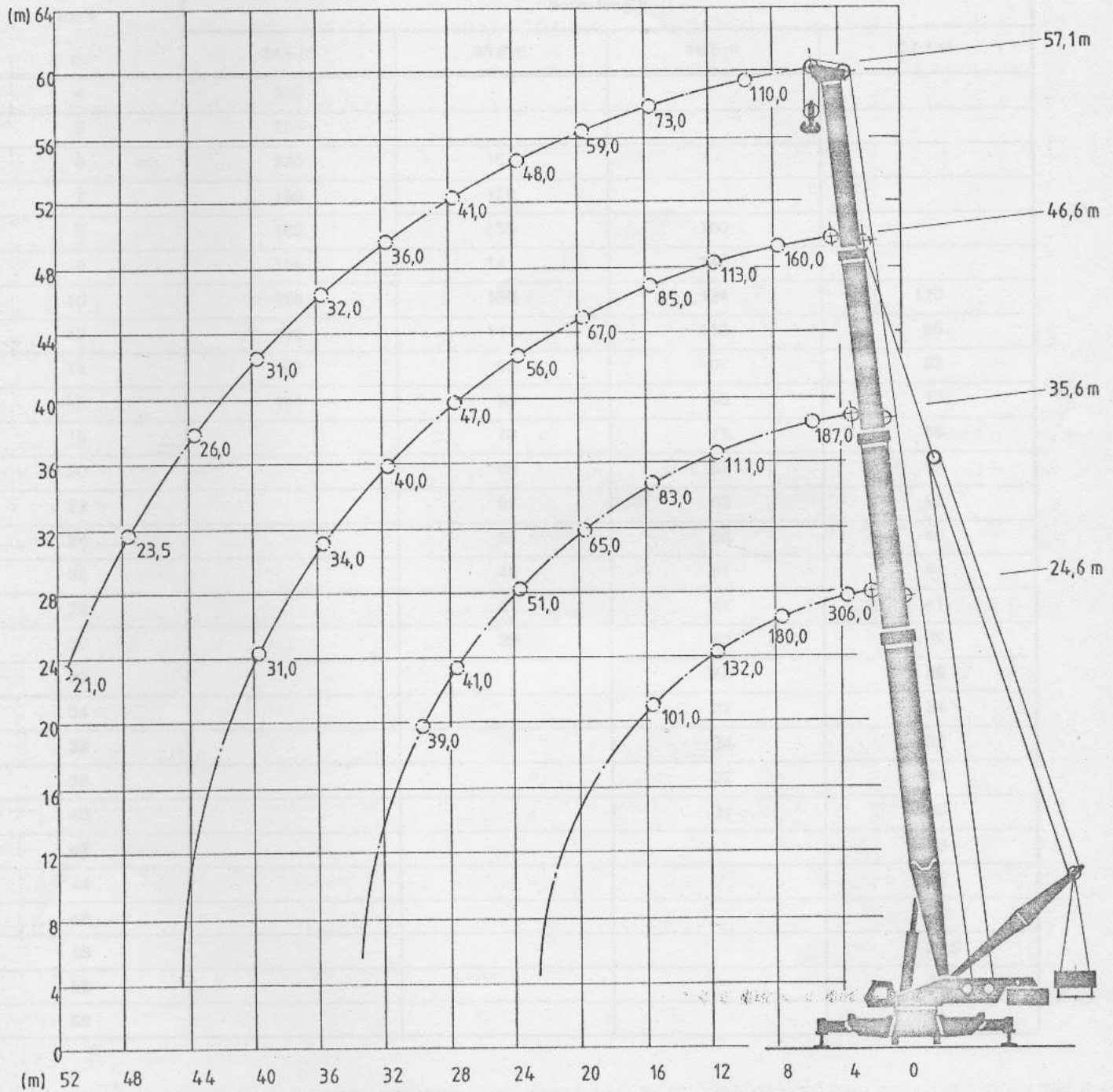
DIN-Ratings

Radii	Main Jib Length 24,6 m							Main Jib Length 35,6 m						
	Fly Jib Lengths							Fly Jib Lengths						
(m)	28,0	35,0	42,0	49,0	56,0	63,0	70,0	28,0	35,0	42,0	49,0	56,0	63,0	70,0
16	66,0													
18	63,0	52,0						66,0						
20	59,0	50,0	38,0					63,0	52,0					
22	53,0	48,0	36,0	32,0				59,0	50,0	38,0				
24	46,0	45,0	35,0	31,0	24,0			53,0	48,0	36,5	32,0			
26	38,0	42,0	34,0	30,0	23,0	19,0		46,0	45,0	35,0	31,0	24,0		
28		38,0	33,0	29,0	22,0	18,6	12,0	38,0	42,0	34,0	30,0	23,0	19,0	
30		33,0	32,5	28,0	21,5	18,2	11,8		38,0	33,0	29,0	22,0	18,6	12,0
32		28,0	32,0	27,0	21,0	17,8	11,6		33,0	32,5	28,0	21,5	18,2	11,8
34			28,0	26,5	20,5	17,4	11,4		28,0	32,0	27,0	21,0	17,8	11,6
36			25,0	26,0	20,0	17,0	11,2			28,0	26,5	20,5	17,4	11,4
38			22,0	24,0	19,5	16,6	11,0			25,0	26,0	20,0	17,0	11,2
40				21,5	19,0	16,2	10,8			22,0	24,0	19,5	16,6	11,0
42				19,0	18,5	15,8	10,6				21,5	19,0	16,2	10,8
44				16,5	18,0	15,4	10,4				19,0	18,5	15,8	10,6
46				14,0	17,5	15,0	10,2				16,5	18,0	15,4	10,4
48					15,5	14,6	10,0				14,0	17,5	15,0	10,2
50					14,0	14,2	9,8					15,5	14,6	10,0
52					12,0	13,8	9,6					14,0	14,2	9,8
54						12,4	9,4					12,0	13,8	9,6
56							9,2						12,4	9,4
58														9,2

Ausladung Radii Portée	Main Jib Length 46,6 m							Main Jib Length 57,1 m						
	Fly Jib Lengths							Fly Jib Lengths						
(m)	28,0	35,0	42,0	49,0	56,0	63,0	70,0	28,0	35,0	42,0	49,0	56,0	63,0	70,0
20	61,0													
22	59,0	48,0						46,0						
24	57,0	47,0	36,0					44,0	38,0					
26	51,0	45,8	35,0	29,0				42,5	37,0	30,5				
28	44,0	44,0	34,0	28,4	22,0			41,0	36,0	30,0				
30	35,0	40,0	33,0	27,8	21,5			40,0	35,0	29,5	24,2			
32		36,0	32,0	27,2	21,0	16,6		32,0	34,0	29,0	23,9	18,8		
34		32,0	31,0	26,6	20,5	16,3			33,0	28,7	23,6	18,6		
36		26,0	30,0	26,6	20,0	16,0	10,0		30,0	28,4	23,3	18,4	14,5	
38			28,5	25,5	19,8	15,7	9,8		24,0	28,1	23,0	18,2	14,4	
40			25,0	25,0	19,5	15,4	9,6			27,4	22,8	18,0	14,3	9,0
42			21,5	24,2	19,2	15,2	9,4			24,0	22,6	17,8	14,2	8,8
44				21,5	18,9	15,0	9,2			20,5	22,4	17,0	14,1	8,6
46				19,0	18,7	14,8	9,0				22,0	16,0	14,0	8,4
48				16,5	18,5	14,6	8,8				18,0	15,0	13,8	8,2
50					17,7	14,4	8,6				16,0	14,0	13,7	8,0
52					16,0	14,2	8,4					13,0	13,5	7,8
54					14,0	14,0	8,2					12,0	12,0	7,6
56					12,0	13,0	8,0					11,0	11,0	7,4
58						12,0	7,8						10,0	7,2
60							7,6						9,0	7,0
62														6,5

Lifting Capacities (t) on Heavy Duty Equipment

with 10,5 Maxi Lift Mast
Outrigger Base 11,5 m
Slewing Range 360°
Counterweight 96 t
and 70 t additional ballast,
DIN-Ratings



Remarks concerning the lifting capacities:
See page 5.

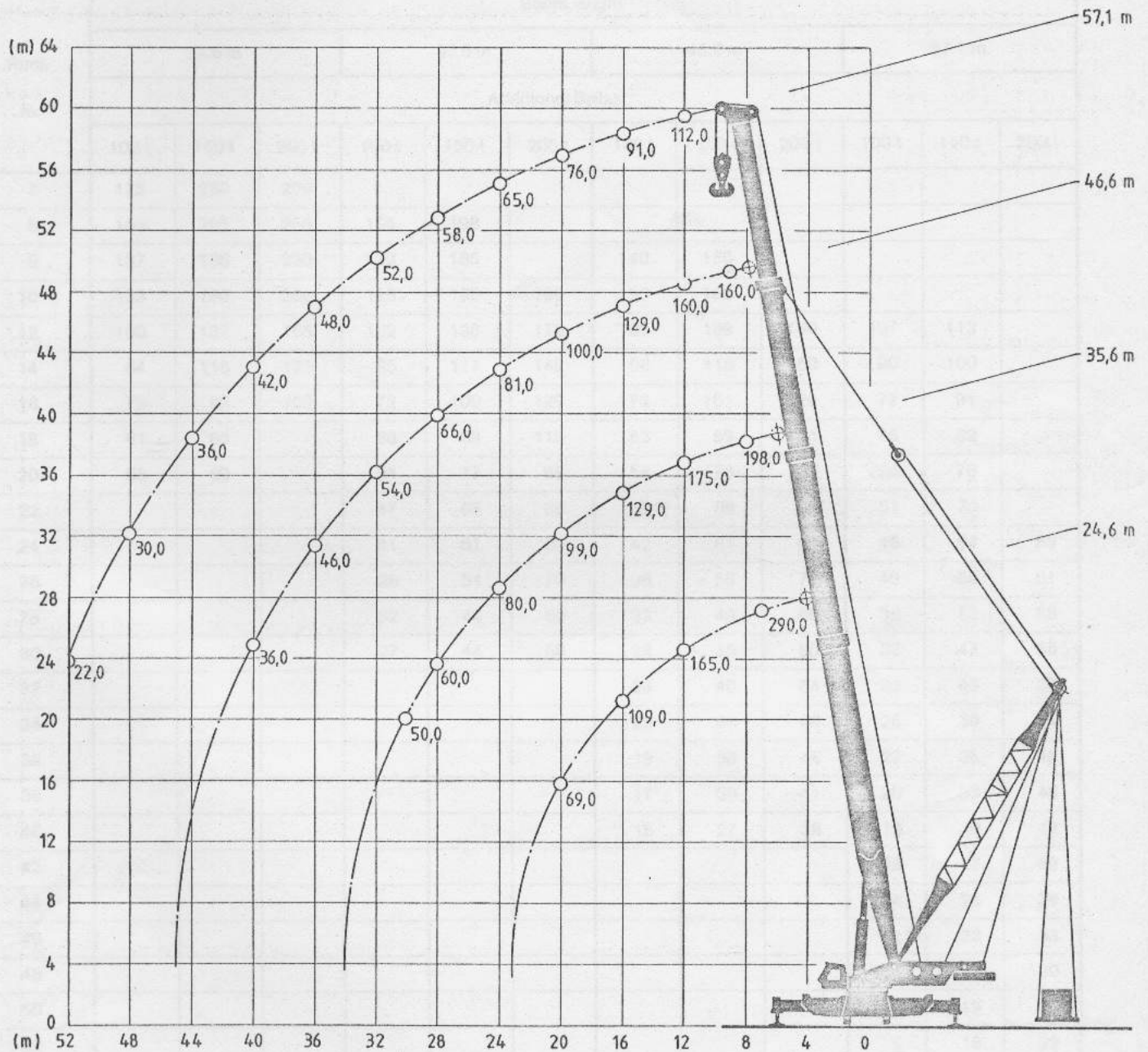
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Counterweight 96 t
and 70 t additional ballast,
DIN-Ratings

Radii m	Boom length			
	24,6 m	35,6 m	46,6 m	57,1 m
4	306			
5	255			
6	220	187		
7	196	170		
8	180	155	160	
9	166	141	145	
10	155	130	134	110
12	132	111	113	95
14	109	96	97	83
16	101	83	85	73
18		73	75	65
20		65	67	59
22		57	60	53
24		51	56	48
26		45	51	44
28		41	47	41
30		39	43	39
32			40	36
34			37	34
36			34	32
38			32	31
40			31	30
42				28
44				26
46				25
48				23,5
50				22
52				21

Remarks concerning the lifting capacities:
See page 5.

**Lifting Capacities (t)
on Maxi-Lift-Equipment**
with 21 m Maxi-Lift Mast
Outrigger base 11,5 m
Slewing Range 360°
Counterweight 55 t
and additional ballast 100, 150 or 200 t
DIN-Ratings



Remarks concerning the lifting capacities:
See page 5.