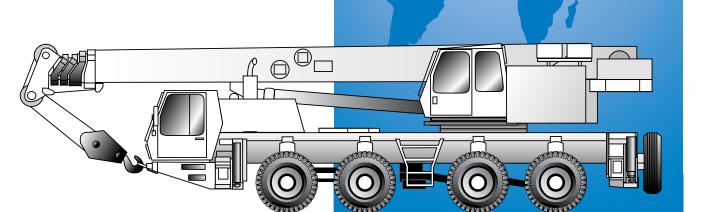
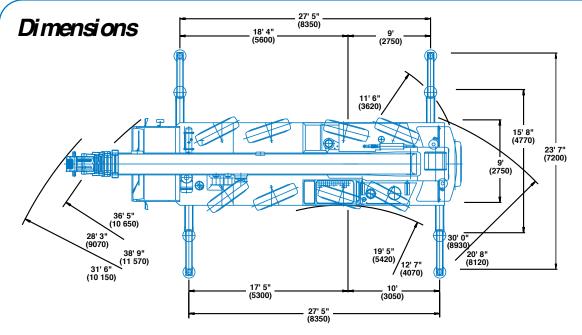


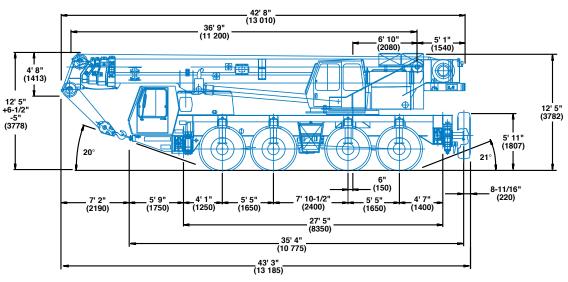
# GMK4100



All Terrain Hydraulic Crane



Note: With addition of auxiliary hoist, tailswing increases to 14' 2" (4320 mm)



Note: ( ) Reference dimensions in mm

MODEL GMK 4100 EQUIPPED WITH: 8 x 6 x 8, Tires 20.5R25, 9,260 lbs. (4200 kg) counterweight	FRONT 2 AXLE LINES 51,920 lbs.	REAR 2 AXLE LINES 50,915 lbs.	GVW 102,835 lbs
ADDITIONS:			
Outrigger Floats	159 lbs.	172 lbs.	331 lbs.
Auxiliary Hoist	-2,147 lbs.	4,837 lbs	2,690 lbs.
16.00R25 Tires in lieu of 20.5R25	-370 lbs.	-370 lbs.	-740 lbs.
14.00R25 Tires in lieu of 20.5R25	-900 lbs.	-900 lbs.	-1,800 lbs.
Spare Tire & Wheel - 14.00R25 & Bracket	-416 lbs.	1,000 lbs.	584 lbs.
Spare Tire & Wheel - 16.00R25 & Bracket	-516 lbs.	1,232 lbs.	716 lbs.
Spare Tire & Wheel - 20.5R25 & Bracket	-589 lbs.	1,398 lbs.	809 lbs.
26' - 43' Lattice Extension w/Brackets	3,382 lbs.	-1,067 lbs.	2,315 lbs.
8 x 8 Drive	212 lbs.	824 lbs.	1,036 lbs.
REMOVAL:			
9,260 lbs. Counterweight	5,315 lbs.	-14,575 lbs.	-9,260 lbs.
2 X Front Outriggers (Beams & Jacks)	-4,167 lbs.	1,411 lbs.	-2,756 lbs.
2 X Rear Outriggers (Beams & Jacks)	1,940 lbs.	-5,467 lbs.	-3,527 lbs.

Weights may vary due to manufacturing tolerances and scale accuracy.

# Wbrking range









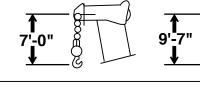


37 -141 ft. (11.2 - 43.0 m)

26 - 43 - 62 - 82 ft. (8.0 - 13.0 - 19.0 - 25.0 m)

34,850 lbs. (15 800 kg)

**FEET** 240 0° 16° **30°** 230 141' + 82' 220 210 141' + 62' 200 190 141' + 43' 180 170 141' + 26' 160 150 70° 60° 140 141' 130 **50**° 120 115' 110 40° 100 90 30° 90' 80 70 20° 62' 60 50 40 10° 30 37' 20 10 0 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 FEET



**DIMENSIONS ARE FOR LARGEST GROVE FURNISHED HOOK BLOCK AND HEADACHE BALL, WITH ANTI-TWO BLOCK ACTIVATED.** 

AXIS OF ROTATION →

## Superstructure specifications

#### **Boom**

37 ft. to 141 ft. (11.2 m to 43 m) five-section full power boom.

Maximum tip height: 150 ft. (46 m).

#### **Lattice Extension**

Two-stage, 26 ft. to 43 ft. (8 m to 13 m) lattice extension offsettable at 0°, 16° and 30°. Stows alongside base boom section.

Maximum tip height: 194 ft. (59 m).

#### \*Optional Lattice Extension

Boom extension, lattice design 26, 43, 62, 82 ft. (8, 13, 19, 25 m) - includes 26 ft. to 43 ft. (8 m to 13 m) swingaway (offsets  $0^{\circ}$ ,  $16^{\circ}$  and  $30^{\circ}$ ) plus 20 ft. (6 m) lattice extensions.

Maximum tip height: 230 ft. (70 m).

#### **Boom Elevation**

Single cylinder with integral holding valve provides elevation from -3° to 84°.

#### **Load Moment**

## & Anti-Two Block System

Load moment and anti-two block system with audio-visual warning and control lever lock-out. These systems provide electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition.

#### Cab

Full vision aluminum cab, safety glass windows, adjustable operator's seat with hydraulic suspension, engine-independent heating, instrumentation and operating controls for superstructure.

#### **Swing**

Axial piston motor with planetary gear. Holding and service brake. Swing speed variable from 0 - 1.9 RPM.

## Counterweight

34,850 lbs. (15 800 kg) total. Hydraulically installed and removed.

## **Engine**

Mercedes-Benz OM366A, diesel, 6 cylinders, water cooled, turbocharged, 104 kW at 1800 RPM. Maximum torque: 566 Nm at 1500-1600 RPM.

#### **Hydraulic System**

Three separate pump circuits: two axial piston pumps with integrated infinitely variable speed and load control and two fixed displacement pumps for swing.

349 gallon (1320 L) reservoir capacity.

All crane movements infinitely variable by hydraulic pilot circuit control levers with automatic reset to zero.

#### **Electrical System**

24 V lighting system and signals.

Generator: 28 V/55 A.

Two batteries: 12 V/170 Ah each.

# HOIST SPECIFICATIONS Main Hoist

Axial piston fixed displacement motor with integrated planetary gear and multiple disk brake. Pope drum with special grooving.

Single line pull: 13,700 lbs.

(61 kN)

Single line speed: 400 FPM

(120 m/min)

Rope diameter: 19 mm

Rope length: 788 ft.

(240 m)

#### **Auxiliary Hoist**

Axial piston variable displacement motor with integrated planetary gear and multiple disk brake. Rope drum with special grooving.

Single line pull: 13,700 lbs.

(61 kN)

Single line speed: 400 FPM

(120 m/min)

Rope diameter: 19 mm

Rope length: 590 ft.

(180 m)

## Carrier specifications

#### **Chassis**

Four-axle, all-welded, torsion-resistant, box-type construction of high strength steel.

#### **Outriggers**

Four hydraulically telescoping beam outriggers with vertical cylinders and outrigger pads. Independent horizontal and vertical movement control on each side of chassis. Crane level indicators at each control station.

#### **Engine**

Daimler Benz OM 442 A diesel, 8 cylinders, water-cooled with turbocharger, 335 hp (250 kW) @ 2100 RPM.

Maximum torque: 1500 Nm at 1200 RPM.

#### **Fuel Tank Capacity**

127 gallons (500 L).

#### **Transmission**

Automatic powershift transmission with 5 forward and 1 reverse gears. Two speed transfer case with longitudinal differential lock.

#### **Drive**

8 x 6 x 8

#### **Axles**

1st axle line - drive/steer.
2nd axle line - drive/steer.
3rd axle line - steer (off road only).
4th axle line - drive/steer.

Drive axles with planetary hub reduction and center mounted gearing.

#### Suspension

Exclusive "MEGATRAK™" independent hydropneumatic suspension and hydraulic axle lock-out. Dual level control. Suspension range: +6.7 in. (170 mm) to -5.0 in. (-130 mm). Possible combination for transverse slope.

#### **Tires**

8 - 20.5R25 radials.

#### **Steering**

Dual-circuit. Automatic switch-in of standby steering pump in case of main pump failure.

#### **Brakes**

Service brake: pneumatic dual circuit acting on all wheels. Air dryer.

Auxiliary brake: hydraulic retarder integrated with automatic transmission.

Parking brake: pneumatically operated spring-loaded brake acting on 2nd and 4th axle line.

#### Cab

Aluminum, two-man design, safety glass, driver's seat with hydraulic suspension, engine hot water heater. Complete instrumentation and driving controls. Cab can be tilted forward by 60° for easy access to engine, transmission, hydraulic pumps, heater and batteries.

#### **Electrical System**

24 V lighting system and signals.

Generator: 28 V/55 A.

Two batteries: 12 V/170 Ah each.

### **Maximum Speed**

47 mph (75 kph)

## **Gradeability (Theoretical)**

60%

## **Miscellaneous Standard Equipment**

Hydraulic oil cooler; spare tire and wheel - 20.5R25 with carry bracket; spare parts/service manuals; hoist drum rotation indicators; flashing amber warning light on carrier cab; working light; tool kit, wheel chocks, fire extinguisher; rooster sheave; radio/cassette in carrier cab.

## \*Optional Equipment

- \* 8 x 8 x 8 drive
- \* Hook blocks and headache balls
- \* Motor-independent heating with engine preheater.

GMK4100 5

<sup>\*</sup>Denotes optional equipment.









37 - 141 ft. (11.2 - 43 m)

34,850 lbs. (15 800 kg)

100%

360

								Pounds				
(Feet)	37*	37	63	63	75	89	89	101	115	115	128	141
9	200,000**											
10	193,000	158,000										
15	155,000	122,000	115,000	78,000	78,000							
20	113,800	97,000	94,000	78,000	78,000	69,000	53,000	56,000	41,200	31,600	31,600	
25	88,600	79,000	77,000	76,000	66,000	59,000	45,000	51,000	41,200	31,600	31,600	26,600
30			60,000	65,000	57,000	51,000	38,800	44,000	39,600	31,600	31,600	26,600
35			46,000	50,000	46,000	44,000	34,000	39,000	35,000	28,800	31,600	26,600
40			36,000	40,400	36,200	37,600	29,800	34,400	31,200	25,600	29,400	26,600
45			28,800	33,200	29,200	30,600	26,800	30,400	27,800	22,800	26,600	26,600
50			23,200	27,600	23,600	25,000	24,000	25,000	25,000	20,200	24,000	23,800
55					19,200	20,600	21,600	20,600	21,600	18,200	21,600	21,200
60					15,800	17,200	19,600	17,200	18,000	16,400	19,400	18,800
65					13,000	14,400	17,200	14,400	15,200	15,000	16,400	17,200
70						12,000	14,800	12,000	12,800	13,800	14,000	15,000
75						10,000	12,800	10,000	10,800	12,800	12,000	12,800
80								8,200	9,000	12,000	10,200	11,200
85								6,600	7,400	11,200	8,600	9,600
90									6,000	10,200	7,200	8,200
95									4,800	9,000	6,000	7,000
100											5,000	5,800
105											4,000	5,000
110											3,200	4,000
115											2,400	3,200
120												2,600
*Over	the Rear											

<sup>\*\*200,000</sup> LBS. only with special equipment

T1 T2 T3	<u>T4</u> ] %											
T1	0	0	100	0	100	100	0	100	100	0	100	100
T2	0	0	0	50	50	50	100	100	100	100	100	100
Т3	0	0	0	50	0	50	100	50	100	100	100	100
T4	0	0	0	0	0	0	0	0	0	100	50	100

All main boom charts available with 50% outriggers.





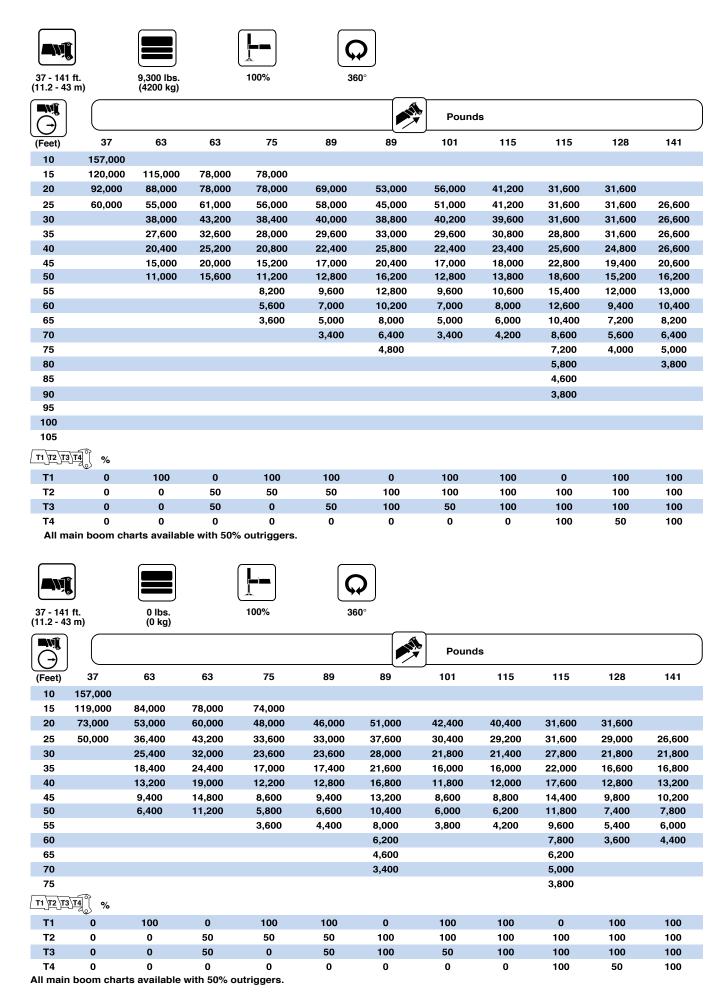




22,000 lbs. 100% (10 000 kg)

								Pounds				
(Feet)	37*	37	63	63	75	89	89	101	115	115	128	141
10	193,000	158,000										
15	150,200	121,000	115,000	78,000	78,000							
20	108,000	95,000	93,000	78,000	78,000	69,000	53,000	56,000	41,200	31,600	31,600	
25	75,800	76,000	72,000	76,000	66,000	59,000	45,000	51,000	41,200	31,600	31,600	26,600
30			50,000	55,000	51,000	51,000	38,800	44,000	39,600	31,600	31,600	26,600
35			37,800	42,400	38,200	39,600	34,000	39,000	35,000	28,800	31,600	26,600
40			29,000	33,600	29,400	31,000	29,800	31,000	31,200	25,600	29,400	26,600
45			22,800	27,400	23,000	24,600	26,800	24,600	25,600	22,800	26,600	26,600
50			17,800	22,400	18,200	19,600	22,800	19,800	20,600	20,200	22,000	23,000
55					14,200	15,800	19,000	15,800	16,600	18,200	18,000	19,200
60					11,200	12,600	15,800	12,600	13,400	16,400	14,800	15,800
65					8,600	10,000	13,000	10,000	11,000	15,000	12,200	13,200
70						8,000	11,000	8,000	8,800	13,200	10,200	11,000
75						6,200	9,000	6,200	7,000	11,400	8,200	9,200
80								4,600	5,400	9,800	6,800	7,600
85								3,400	4,200	8,400	5,400	6,400
90									3,000	7,200	4,200	5,200
95										6,200	3,200	4,200
100											2,400	3,200
105												2,400
*Over	the Rea	r										
T1\T2\T3\	<u>T4</u> %											
T1	0	0	100	0	100	100	0	100	100	0	100	100
T2	0	0	0	50	50	50	100	100	100	100	100	100
Т3	0	0	0	50	0	50	100	50	100	100	100	100
Т4	0	0	0	0	0	0	0	0	0	100	50	100

All main boom charts available with 50% outriggers.



THIS CHAPTI IS ONLY A CLUDE AND SHOULD NOTIBE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.









141 ft. (43 m)

26 - 43 - 62 - 82 ft. (8 - 13 - 19 - 25 m)

34,850 lbs. (15 800 kg)

100%

							AND COLOR	Pounds				
		26 FEET			43 FEET		 	63 FEET			82 FEET	
(Feet)	<b>0</b> °	16°	30°	0°	16°	30°	0°	16°	30°	<b>0</b> °	16°	30°
25	13,600											
30	13,600	13,600	13,400	9,000								
35	13,600	13,600	13,400	9,000			6,600					
40	13,600	13,600	13,400	9,000	8,800		6,600			4,600		
45	13,600	13,600	13,400	9,000	8,800	8,600	6,600			4,600		
50	13,600	13,600	13,400	9,000	8,800	8,400	6,600	6,800		4,600	4,600	
55	13,600	13,200	12,800	9,000	8,800	8,200	6,600	6,800		4,600	4,600	
60	13,600	13,000	12,200	9,000	8,400	8,200	6,600	6,800	6,800	4,600	4,600	4,600
65	13,600	12,600	11,800	8,600	8,200	8,000	6,600	6,800	6,800	4,600	4,600	4,600
70	13,600	12,400	11,600	8,400	7,800	7,800	6,600	6,800	6,800	4,600	4,600	4,600
75	12,800	12,000	11,200	8,200	7,600	7,800	6,600	6,800	6,800	4,600	4,600	4,600
80	11,800	11,800	11,000	7,800	7,400	7,600	6,600	6,800	6,800	4,600	4,600	4,600
85	10,200	11,000	10,800	7,600	7,400	7,400	6,600	6,800	6,800	4,600	4,600	4,600
90	9,000	9,400	9,800	7,400	7,200	7,400	6,600	6,800	6,800	4,600	4,600	4,600
95	7,600	8,200	8,600	7,000	7,200	7,200	6,600	6,800	6,600	4,600	4,600	4,600
100	6,600	7,000	7,400	6,800	7,000	7,200	6,600	6,400	6,400	4,600	4,600	4,600
105	5,600	6,000	6,400	6,600	7,000	7,200	6,200	6,200	6,200	4,600	4,600	4,600
110	4,800	5,200	5,400	5,600	6,400	7,000	5,400	6,000	6,000	4,600	4,600	4,600
115	4,000	4,200	4,400	4,800	5,600	6,000	4,600	5,400	5,800	4,600	4,600	4,600
120	3,200	3,600	3,800	4,200	4,800	5,200	4,000	4,600	5,200	3,800	4,400	4,400
125	2,600	2,800	3,000	3,400	4,000	4,400	3,400	4,000	4,400	3,200	4,000	4,200
130	2,000	2,200	2,400	2,800	3,400	3,800	2,800	3,400	3,800	2,800	3,400	3,800
135	1,400	1,600	1,600	2,200	2,800	3,000	2,200	2,800	3,200	2,200	2,800	3,200
140				1,800	2,200	2,400	1,800	2,200	2,600	1,600	2,200	2,600
145				1,200	1,600	1,800		1,800	2,000		1,800	2,000
150					1,200	1,400			1,400			1,600
155												
T1\T2\T3\	T4 %											
T1	100	100	100	100	100	100	100	100	100	100	100	100
T2	100	100	100	100	100	100	100	100	100	100	100	100
Т3	100	100	100	100	100	100	100	100	100	100	100	100
T4	100	100	100	100	100	100	100	100	100	100	100	100











141 ft. (43 m)

26 - 43 - 62 - 82 ft. (8 - 13 - 19 - 25 m)

22,000 lbs. (10 000 kg)

00%

								Pounds				
		26 FEET			43 FEET			63 FEET			82 FEET	
(Feet)	<b>0</b> °	16°	<b>30</b> °	0°	16°	30°	0°	16°	30°	<b>0</b> °	16°	<b>30</b> °
25	13,600											
30	13,600	13,600	13,400	9,000								
35	13,600	13,600	13,400	9,000			6,600					
40	13,600	13,600	13,400	9,000	8,800		6,600			4,600		
45	13,600	13,600	13,400	9,000	8,800	8,600	6,600			4,600		
50	13,600	13,600	13,400	9,000	8,800	8,400	6,600	6,800		4,600	4,600	
55	13,600	13,200	12,800	9,000	8,800	8,200	6,600	6,800		4,600	4,600	
60	13,600	13,000	12,200	9,000	8,400	8,200	6,600	6,800	6,800	4,600	4,600	4,600
65	13,600	12,600	11,800	8,600	8,200	8,000	6,600	6,800	6,800	4,600	4,600	4,600
70	12,000	12,400	11,600	8,400	7,800	7,800	6,600	6,800	6,800	4,600	4,600	4,600
75	10,000	10,800	11,200	8,200	7,600	7,800	6,600	6,800	6,800	4,600	4,600	4,600
80	8,400	9,200	9,600	7,800	7,400	7,600	6,600	6,800	6,800	4,600	4,600	4,600
85	7,200	7,800	8,200	7,600	7,400	7,400	6,600	6,800	6,800	4,600	4,600	4,600
90	6,000	6,400	6,800	6,800	7,200	7,400	6,200	6,800	6,800	4,600	4,600	4,600
95	4,800	5,400	5,800	5,800	6,800	7,200	5,200	6,200	6,600	4,600	4,600	4,600
100	4,000	4,400	4,600	4,800	5,800	6,400	4,400	5,200	6,000	4,200	4,600	4,600
105	3,000	3,400	3,800	4,000	4,800	5,400	3,600	4,400	5,000	3,600	4,400	4,600
110	2,400	2,800	3,000	3,200	4,000	4,600	2,800	3,600	4,200	2,800	3,600	4,200
115		2,000	2,200	2,600	3,200	3,800	2,200	3,000	3,600	2,200	3,000	3,600
120		1,400	1,600	2,000	2,600	3,000	1,600	2,400	2,800	1,600	2,400	2,800
125				1,400	2,000	2,400		1,800	2,200		1,800	2,200
130					1,400	1,800			1,600			1,600
135						1,200						
T1 T2 T3	<u>T4</u> %											
T1	100	100	100	100	100	100	100	100	100	100	100	100
T2	100	100	100	100	100	100	100	100	100	100	100	100
Т3	100	100	100	100	100	100	100	100	100	100	100	100
Т4	100	100	100	100	100	100	100	100	100	100	100	100











141 ft. (43 m)

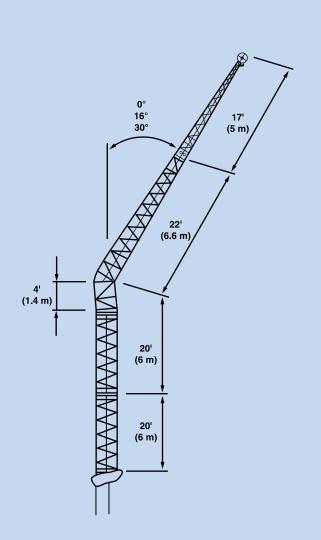
26 - 43 ft. (8 - 13 m)

9,000 lbs. (4200 kg)

100%

		26 FEET		Pounds	43 FEET	
		20.22.			401221	
(Feet)	<b>0</b> °	16°	<b>30</b> °	<b>0</b> °	16°	<b>30</b> °
25	13,600					
30	13,600	13,600	13,400	9,000		
35	13,600	13,600	13,400	9,000		
40	13,600	13,600	13,400	9,000	8,800	
45	13,600	13,600	13,400	9,000	8,800	8,600
50	13,600	13,600	13,400	9,000	8,800	8,400
55	13,600	13,200	12,800	9,000	8,800	8,200
60	11,600	12,600	12,200	9,000	8,400	8,200
65	9,400	10,200	11,000	8,600	8,200	8,000
70	7,600	8,400	9,000	8,400	7,800	7,800
75	6,000	6,800	7,400	7,000	7,600	7,800
80	4,600	5,400	5,800	5,600	7,000	7,600
85	3,600	4,200	4,600	4,600	5,600	6,600
90	2,600	3,200	3,600	3,600	4,600	5,400
95	1,800	2,200	2,600	2,600	3,600	4,400
100		1,400	1,800	1,800	2,800	3,400
105					2,000	2,600
110					1,400	1,800
T1 T2 T3 T4	%					
T1	100	100	100	100	100	100
T2	100	100	100	100	100	100
Т3	100	100	100	100	100	100
T4	100	100	100	100	100	100

## 82' Boom Extension



#### **BI-FOLD SWINGAWAY**

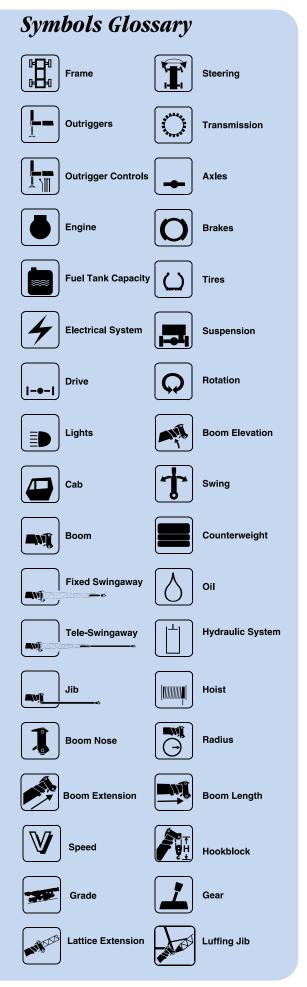
		BASE SI	ECTION	TIP SECTION
Length (ft.)	20' (6 m)	4' (1.4 m)	22' (6.6 m)	17' (5 m)
26'		1 X	1 X	
43'		1 X	1 X	1 X
62'	1 X	1 X	1 X	1 X
82'	2 X	1 X	1 X	1 X

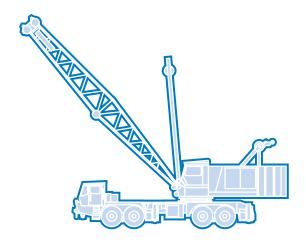
## Rated lifting capacities

#### Important Notes:

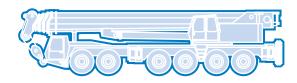
Warning: THIS CHART IS ONLY A GUIDE.
The notes below are for illustration only and should not be relied upon to operate the crane.
The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.

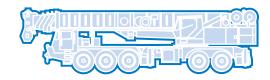
- 1. All rated loads have been tested to and meet minimum requirements of SAEJ1063 NOV93 Cantilevered Boom Crane Structures Method of Test, and do not exceed 85% of the tipping load on outriggers as determined by SAEJ765 OCT90 Crane Stability Test Code.
- 2. Capacities given do not include the weight of hook blocks, slings, auxiliary lifting equipment and load handling devices. Their weights must be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.
- 3. Tipping should never be relied upon as a capacity limitation.
- 4. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
- 5. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
- 6. For outrigger operation, ALL outriggers shall be properly extended with tires raised free of ground before raising the boom or lifting loads.



















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