

# Grove GTK1100

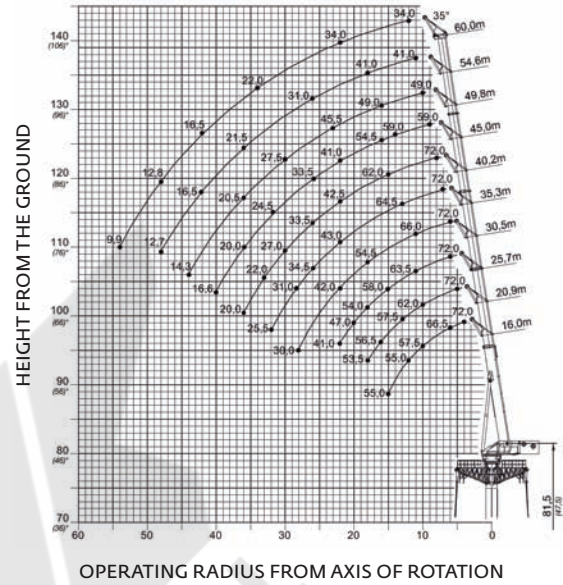
## Quick Reference

**Capacity:** 104.7 Ust (95 mt)  
**Boom:** 196.9 ft (60 m)  
**Max Tower Height:** 251 ft (76.5 m)

### FEATURES

- Five-section TWIN-LOCK™ Boom Design
- Six-section telescopic tower
- 6-cylinder Mercedes-Benz OM906LA diesel engine
- Remote control operation

### Working Range Chart



### Main Boom Load Chart — EN 13000

52.5-196.9 ft (16.0-60.0 m)

100% 18.0 x 18.0 m

360

260.8 ft (79.5 m) (42.5)\*

9.8 ft (3 m)

MAIN BOOM LENGTH (IN METERS)										
m	16,02	20,85	25,68	30,50	35,33	40,15	44,98	49,80	54,63	60,00
3,0	72,0									
4,0	72,0	72,0								
5,0	70,0	72,0	72,0							
6,0	66,5	70,5	72,0	72,0						
7,0	64,0	68,0	71,0	72,0	72,0					
8,0	61,5	65,5	68,5	71,0	72,0	72,0				
9,0	59,5	64,0	67,0	69,5	70,5	72,0	59,0			
10,0	57,5	62,0	65,0	67,5	69,0	70,5	59,0	49,0		
11,0	56,5	60,5	63,5	66,0	67,5	69,0	59,0	49,0	41,0	
12,0	55,0	58,5	62,0	64,5	66,0	67,5	59,0	49,0	41,0	34,0
13,0	55,0	57,5	60,5	63,0	64,5	66,0	59,0	49,0	41,0	34,0
14,0	55,0	56,5	59,0	62,0	63,5	65,0	59,0	49,0	41,0	34,0
15,0	55,0	56,5	58,0	60,5	62,5	62,0	57,0	49,0	41,0	34,0
16,0		56,5	57,5	59,5	61,5	59,5	54,5	49,0	41,0	34,0
18,0		53,5	54,0	54,5	56,0	54,0	49,0	45,5	41,0	34,0
20,0			47,0	47,5	49,0	48,0	45,0	42,0	39,0	34,0
22,0			41,0	42,0	43,0	42,5	41,0	38,0	36,5	34,0
24,0				37,5	38,5	37,5	37,5	35,5	34,0	31,5
26,0				33,5	34,5	33,5	33,5	32,5	31,0	29,0
28,0				30,0	31,0	30,0	30,0	30,0	29,0	27,0
30,0					28,0	27,0	27,0	27,5	26,5	25,0
32,0						25,5	24,5	25,0	25,0	23,5
34,0							22,0	22,0	23,5	22,0
36,0							20,0	20,5	21,5	20,5
38,0								18,3	18,8	18,9
40,0							16,6	17,1	18,0	17,5
42,0								15,6	16,5	16,5
44,0								14,3	15,1	15,1
46,0									13,9	13,9
48,0									12,7	12,8
50,0										11,7
52,0										10,8
54,0										9,9

\* The lifting capacities correspond to EN 13000:2004. The lifting capacities likewise fulfil the requirements of ISO 4305 and DIN 15019, Part 2, with regard to stability, and DIN 15018, Part 3, and FEM 5004 with regard to strength.

The lifting capacities are given in tonnes. Lifting capacity = Payload + weight of hook block and suspending device. The lifting capacities for the main boom only apply with the jib dismantled. The right is reserved to modify the load-carrying capacities.

**Note:** The details in this brochure serve as general information only. The determinant values for the operation of the crane are the lifting capacity tables belonging to it and the operating instructions.

## Superstructure

### Main boom

16.0 m to 60.0 m five-section TWIN-LOCK™ boom.

**Maximum tip height:** 140 m with tower extended.

### Boom elevation

Two cylinders with safety valve, boom angle from -1,2o to +82o.

### Slewing

3 slewing gears with axial piston motors, planetary gear, automatic brake, release by ECOS

### Engine

**Main engine:** Mercedes-Benz OM906LA, 6-cylinder Diesel, water-cooled, turbocharged, 190 kW (258 hp) at 1 800 min-1 (80/1269/EEC fan rigid)

**Max. torque:** 1 100 Nm at 1 300 min-1

**Engine emission:** EUROMOT/EPA/CARB (non road)

**Emergency engine:** Lombardini LDW1404, 4 cylinder, diesel, watercooled, 22,5 kW (30,6 hp), 84 Nm at 2000 min-1

**Fuel tank capacity:** 29 l

### Hydraulic system

7 pumps; 4 piston pumps and 3 gear pumps for all crane functions, and for tensioning the bracing rods. Thermostatically controlled oil cooler.

**Tank capacity:** 1 620 l

### Control system

ECOS electronic control of all movements by means of cable-connected control console or, alternatively, by remote control. Connected to the LMI and engine management system by CANbus.

## Carrier

### Transport unit

Semi-trailer design (Scheuerle) with integrated welded cup design made of high strength fine-grain steel and welded-attached carrier elements for the transport and erection of the tower.

### Outriggers

Four single-stage beams, 12,7 m long, to be transported separately, with vertical cylinders and outrigger pads, including tensioning rods for bracing the crane.

**Outrigger base:** 18 m x 18 m.

## Tower unit

### Tower

19,4 m to 76,5 m six section telescopic tower. Extended by means of a single stage telescopic cylinder with 4-fold locking arrangement.

### Telescoping time approx.:

2 400 seconds

### Bracing

Four spreaders made up of tubular lattice design for bracing at the head of the tower, with one tensioning cylinder and vibration damper each.

**Tensioning force:** maximum 1000 kN

## Power pack

### Engine

Mercedes-Benz OM904LA, 4-cylinder Diesel, water-cooled, turbocharged, 130 kW (177 hp) at 2 200 min-1 (80/1269/EEC fan rigid)

**Max. Torque:** 580 Nm at 1 200 - 1 600 min-1

**Fuel tank capacity:** 400 l

**Engine emission:** EUROMOT/EPA/CARB (non road)

### Hydraulic system

One axial variable displacement pump (load-sensing) for erecting and telescoping of the tower. One gear pump for the outrigger and pinning systems

**Tank capacity:** 2 000 l

## Dimensions

