GROVE TMS250EB

Truck-mounted hydraulic crane

- 24.40 metres (80ff) main boom
- Maximum on-board tip height 42 metres (138 ft)
- 6 × 4 drive
- Optional* 9.30 to 16.40 metres (30.5 to 54ft) telescopic offsettable Swingaway



Superstructure specifications

Boom	10.10 to 24.40m (33 to 80ff), three section full-power fully synchronised Trapezoidal boom. Telescope sections slide on adjustable and replaceable Nylatron wear pads. Maximum tip height 27m (88ff).	Valves	valves. Thre	e individual v	ble-acting control valve banks permit nultiple crane
Swingaway	9.30m (30ft 6in) lattice Swingaway extension which can be offset 0°, 15°, or 30°. Stows alongside boom when not in use.	Filter		ype, full flow nd indicator.	with by-pass 25 micron rated
Optional *telescopic	Maximum tip height 36m (118ft).	Reservoir	409 litres (1 Internal baff oil level gau	108 US gallon les, particle m	s) capacity. nagnet and exterior
Swingaway	(42ft) or 16.40m (54ft) with a rectangular roller-mounted section extended from within the 9.30m (30ft 6in) lattice extension.	Oil cooler		<u> </u>	ed, electric fan
	Offsettable at 0°, 15° or 30°, Stows alongside boom when not in use. Maximum tip height 42m (138ft).	HOIST SPECIFICATION	Power up an		ol speed, planetary
Boom nose	Four sheaves, mounted on heavy duty tapered roller bearings, with removable pintype rope guards.			th integral, at ti-disc brake.	utomatic, spring-
Boom elevation	One double-acting hydraulic cylinder with integral holding valve provides elevation from -4° to $+75^{\circ}$	Make/model	Main hoist Grove HO30		*Auxiliary hoist Grove HO15B-16
Control lever lockout	For use with optional *safeload or optional load-moment indicator.		Low Speed	High Speed	Single Speed
Cab	Full vision, all-steel tabricated with safety glass throughout. Hinged skylight and sliding side window. Length adjustable combination hand-foot crane controls. Complete instrumentation including hoist drum rotation indicator. Outrigger controls	Maximum single line Bare drum Mean drum Full drum	60.6 m/min (199 fpm)	122 m/min (400 fpm) 137 m/min (450 fpm) 154 m/min (505 fpm)	(154 fpm) 54 m/min (177 fpm)
_	and site-level bubble.	Maximum single line			
Swing	Ball-bearing swing circle with 360° confinuous rotation. Grove planetary Gideswing with multi-disc swing brake. Spring-applied, hydraulically released park brake and Iwo-position plunger-type house lock. Maximum swing speed 2,7 rpm.	Bare drum Mean drum Full drum	6584kg (14,512lb) 5987kg (13,199lb) 5474kg (12,068lb)	3291 kg (7255lb) 2987 kg (6585lb) 2735 kg (6029lb)	3950kg (8708lb) · 3327kg (7335lb) 3143kg (6929lb)
Counterweight	Fixed position, 3400kg (7496lb) pin mounted.	Maximum usable rop	225m of 16n diameter		111 m of 16mm diameter
HYDRAULIC SYSTEM Pumps	One three section gear pump, with manual disconnect. Combined capacity 507 litries/ minute (134 US gallons/minut). Maximum pressure 175.8 kg/cm² (2500 PSi).	Optional *equipment	moment indic follower, hois main or *aux	k system, sat cator, hoist-d t-drum rotatio iliary hoist), c	rum cable on indicator (on

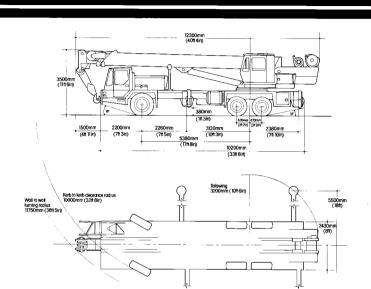
Carrier specifications

Lights

Frame	High strength steel, all-welded box section design, with integral outrigger housings.	Cab	Two-man, full width design left or right hand drive, GRP fabricated, accoustically treated
Outrigger system	Hydraulic single stage telescopic beam and jack outriggers with integral holding valves. Steel fabricated quick release outrigger floats 610mm (24in diameter), stowable on		with safety glass. Windscreen washers and wipers dual rearview mirrors, heater and demister. Full travel controls and comprehensive instrumentation.
	carrier.	Maximum speed	80 kph (50 mph).
Front stabilizer	Fifth hydraulic vertical cylinder, with quick release outrigger float. Permits full 360° lifting.	Gross vehicle weight and axle loads	Front: 6500kg (14,330lb) Rear landem: 20,500kg (45,195lb). GVW: 27,000kg (59,525lb)
Outrigger controls	Situated in superstructure cab. Push button electric controls requiring two-handed		Above weights for TMS250És to standard specification.
	operation. Site level bubble located adjacent to controls.	Optional *equipment	heater, rotating beacon, comprehensive tool
Engine	Deutz F6L413FR, six-cylinder, air cooled diesel. 9.57 litres, 142 kw (192 bhp) at 2500 rpm, maximum torque 613 Nm (452 lb tl) at 1600 rpm.	*Indicates optional iten	n.
Fuel tank capacity	227 litres (60 US gallons).		
Electrical system	24v including starting.		
Drive	6 x 4.		
Steering	Power assisted, heavy duty semi-integral type.		
Transmission	Nine forward, two reverse speeds. PTO drive for hydraulic pumps.		
Axles	Front: Steering, non-driving. Rear: Non-steering, driving landern with lockable interaxle differential.		
Suspension	Front: Multi-leaf spring. Rear: Leaf spring over equalising beam.		
yres	$11.00 \times 20 \times 16 PR$ radials, twins on rear axles. Tyre inflation kit.		
Brakes	Dual-line air system, acting on all wheels. Spring-applied air-released, emergency/ park brake on rear axles. Engine exhaust brake.		

Full lighting, including head, tail braking, reversing, directional, hazard warning and tog lights.

Dimensions TMS 250E_B



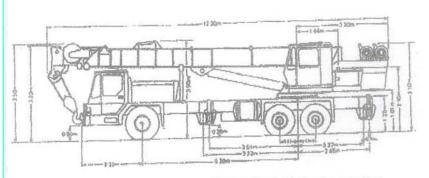


GROVE (OLES

5500mm (18ff)

Harefield, Uxbridge, Middlesex, UB9 6QG, England Telephone: Harefield (089 582) 3777 Telex: 21619 CRANES G

DIMENSIONS



CRANE WIDTH	2.43M	MAX. BOOM	24.3M
OUTRIGGER SPREAD	5.5M	GROSS WEIGHT	24.8T

LIFTING CAPACITIES IN TONNES

Radius (m)	Boom Fully Retropled	1000			diga di				
	9.9h	11.8m	13.4m	15.2m	17.1 m	18.9m	20,7m	55'eu	24,37
3.0	30.00	28.58	23,13					-	
3.6	27.05	23.58	23,13	20,86	18.37				
4.0	24,62	23.68	22.56	19.50	17.55	-		-	
4,5	22.55	22.55	21.47	16,37	16.48	14.08	11,79		
	20,77	20.77	20.37	17.82	15.48	13.01			
5.0	17.02	17,02	17.02	15.47	13.74	11.20	10,55	9.75	9.07
7.0	13.06	13.06	13.08	13.06	12.35	10.11	9.52	B.75	8.89
0,0	10.10	110.19	10.20	10.20	10.20	8.98	8,57	7.93	7.71
9.0		B.14	8.14	8.14	8,15	7.98	7.68	7,25	0,05
10.0		1	6.77	8,77	8.77	6,77	8.65	6.57	8.17
10.8			6.86	6.36	6.88	6,36	6.98	6.30	5.93
12.0				4:91	4,01	4.91	4:01	4.91	4.82
14.0	1				3.71	3.71	8.71	3.71	2.71
16.0						2.71	2.71	2.71	2.71
18.0					-		8.03	2.03	2,03
20,0	-			1				1,59	1.69
22.0									1.38
24.0					*				
26.0						1		1	-
28.0		1						-	-
0.08	1	1				1			
99.0	-		1				1		

Main Boom + Swingsway Extension

- Parist	iggera fully or 24.3 Maii	Bronens		
Radius (in)	Swingaway 2" Offset	1im		
	82.8m	\$8,8m		
3.0				
3.6				
4.0				
4,6				
6,0				
6.0				
7.0	107	make -		
	4.25	-		
9.0	9.79			
10.0	3.68	1.47		
12.0	8.13	1.40		
14.0	2.67	1,31		
16.0	2.30	1.21		
18.0	2.01	1.12		
20.0	1.77	1.04		
35.0	1.45	0.97		
24.0	1.11.	0.92		
56.0	0.81	0.88		
28.0		0.82		
0.06		0.68		
32.0	1	0.62		

25