## GROVE

- Maximum on-board tip height 43 metres (141 ft)
- 4 x 4 wheel drive with four wheel steer
- Maximum speed 70 kph (43.5 mph)
   Telescopic Swingaway 9.30 12.80 16.40 metres (30 ft 6 in 42 ft 53 ft 9 in). Offsettable at 0°, 15° or 30°



## **Carrier specifications**

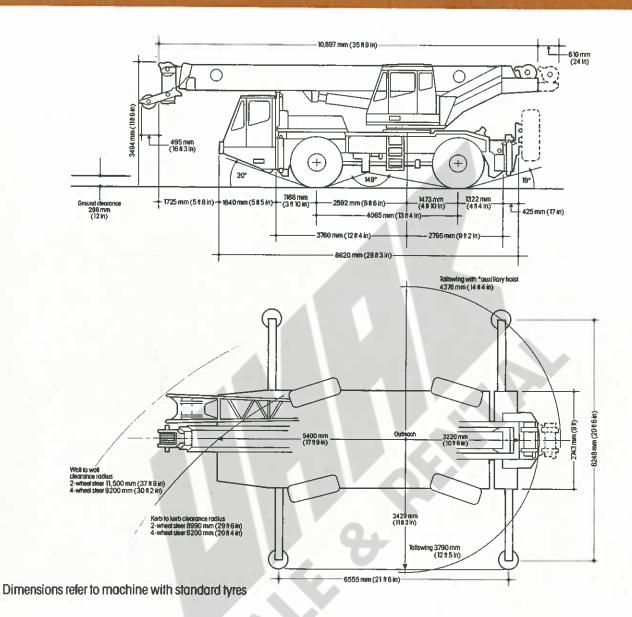
Frame	High strength steel, all-welded design with integral outrigger housing, and incorporating	Suspension	Integral hydrogas type all-round. Hydraulic lockout for 'on rubber' crane operation.  Front: disc Rear: drums Dual-line air system operating on all wheels. Spring-applied air-released park brake acting on rear axle. Engine exhaust brake.	
Outrigger system	single stage, hydraulic telescopic beam and jack outriggers with integral holding valves.  Quick-release type outrigger floats, 400 mm (16 in) diameter.	Brakes		
Outrigger controls	Situated in the superstructure cab. Push-button electric controls requiring two-handed operation for safety. Crane level indicator adjacent to controls.	Tyres	16.00 x 25 on-off highway radials all round. Tyre inflation kit. Optional *20.50 x 25 on-off highway radials all-round.	
Engine	Deutz BF6L513R, six-cylinder, turbocharged air- cooled diesel. 9.6 litres, 177 kw (240 bhp) at 2300 rpm; maximum torque 905 Nm (668 lb ft) at 1500 rpm.	Lights	Full lighting including head, tail, braking, reversing, fog, directional and hazard warning lights.	
		Cab	Full vision, all-steel fabricated with acoustic lining and tinted safety glass throughout, left-hand drive,	
Fuel tank capacity	209 litres (55 US gallons).		rearview mirrors. Fully adjustable seat, complete driving controls and comprehensive	
Electrical system	24 v (including starting).		instrumentation, high output heater and demister fan.	
Drive	4 x 2/4 x 4.	Maximum speed	70 kph (43.5 mph).	
Steering	Fully independent power steering providing independent front or rear wheel steering and four-wheel co-ordinated or crab steering.  Front: Mechanical power assisted steering controlled by steering wheel.  Rear: Independent hydraulically powered steering. Lockout for rear axle when centralised. Automatic steering reversal system to ensure correct control regardless of superstructure position.	Gross vehicle weight and axle loads	Machine to basic specification.  Axie 1: 12,000 kg (26,455 lb)  Axie 2: 12,000 kg (26,455 lb)  GVW: 24,000 kg (52,910 lb)	
		Optional *equipment	Superstructure  * Load moment indicator  * Anti-two block system  * Hoist-drum rotation indicator	
Transmission	Powershift gearbox with six forward, three reverse speeds. Engine mounted torque converter with automatic lock-up for highway travel. Four-wheel drive automatically engaged in first and second speed forward, and first speed reverse.		* Auxiliary hoist * Spotlight * Rotating beacon * Hookblocks Carrier * Spare wheel and stowage assembly	
Axies	Front and rear: Drive-steer with differential and planetary hub reduction.	*Indicates optional item	* Rotating beacon	

## **Superstructure specifications**

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Boom	9.80 to 24.40 m (32 ft to 80 ft), three-section full-power Trapezoidal boom. Positively	HYDRAULIC SYSTEM		
	synchronised extension/retraction with single lever control. Telescopic sections stide on adjustable and replaceable Nylatron pads. Maximum tip height 27 m (88 ft).	Pumps	Three main gear pumps, combined capacity 406 litres/minute (107 US gallons/minute). Maximum pressure 246 kg/cm² (3500 PSI).	
Telescopic offsettable Swingaway extension	9.30 to 12.80 or 16.40 m (30 ft 6 in to 42 ft or 53 ft 9 in) Swingaway extension, with a rectangular roller-mounted section extended from within the 9.30 m (30 ft) lattice extension. Offsettable at 0°, 15° or 30°. Stows alongside boom when not in use. Maximum tip height 43 m (141 ft).	Valves	Precision, four-way, double-acting pilot control operated valves, with three individual valve banks permit simultaneous control of multiple crane functions.	
		Filter	Return line type filter, with by-pass protection and indicator. 10 micron rated cartridge.	
Optional *non- telescopic offsettable Swingaway extension	9.30 m (30 ft 6 in) lattice Swingaway extension, offsettable at 0°, 15° or 30°. Stows alongside boom when not in use. Maximum tip height 36 m (118 ft).	Reservoir	400 litres (106 US gallons) capacity, with internal baffles, particle magnet, clean out access and exterior oil level gauge.	
Boom nose	Six sheaves, mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Optional *auxiliary boom nose for single-line lifting.	Oil cooler	Thermostatically controlled, electric motor driven fan.	
		Pressure check panel	System pressure test panel with quick-release couplings.	
Boom elevation	One double-acting hydraulic cylinder with integral holding valves provides elevation from $-3^{\circ}$ to $+78^{\circ}$ .	HOIST SPECIFICATIONS	Power up and down, equal speed, planetary reduction with integral automatic springapplied multi-disc brake.	
Cab	Full vision, all-steel fabricated with acoustic lining and finted safety glass throughout. Dash panel incorporates gauges for all engine functions. Deluxe seat with arm-rest mounted hydraulic joystick controls. Complete driving controls, hinged skylight, electric windscreen and skylight wipers, horn and diesel cab heater.	Make/Model	Main hoist Grove HO15C-20	*Auxiliary hoist Grove HO15C-16
		Maximum single line sp Bottom layer Intermediate layer	96 m/min 56 m/min (315 fpm) (184 fpm) 106 m/min 60 m/min	(184 fpm)
Swing	Ball-bearing swing circle with 360° continuous rotation. Grove planetary glideswing with foot applied multi-disc brake. Spring-applied hydraulically released park brake. Plunger-type, two position house lock. Maximum speed 2.2 rpm	Top layer	115 m/min (377 fpm)	64 m/min (210 fpm)
		Maximum single line pu Bottom layer Intermediate	3662 kg (8073 lb) 3497 kg	3662 kg (8073 lb) 3497 kg
Counterweight	Fixed position, 1000 kg (2200 lb) permanently mounted. Additional *4000 kg (8818 lb) pin mounted, two piece counterweight.	layer Top layer	(7709 lb) 3333 kg (7348 lb)	(7709 lb) 3333 kg (7348 lb)
	6	Maximum permissible line pull	3333 kg (7348 lb)	3333 kg (7348 lb)
		Maximum rope stowage	185 m x 14 mm (607 ft x %i6 in)	146 m x 14 mm (479 ft x %is in)
		Standard rope supplied	185 m x 14 mm (607 ft x %16 in)	137 m x 14 mm (450 ft x % 6 in)
		*Indicates optional item		

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Dimensions AT745



Constant improvement and engineering progress make it necessary that the company reserves the right to make specification, equipment and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment. Optional equipment is designated by (\*) in specifications tolder.



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