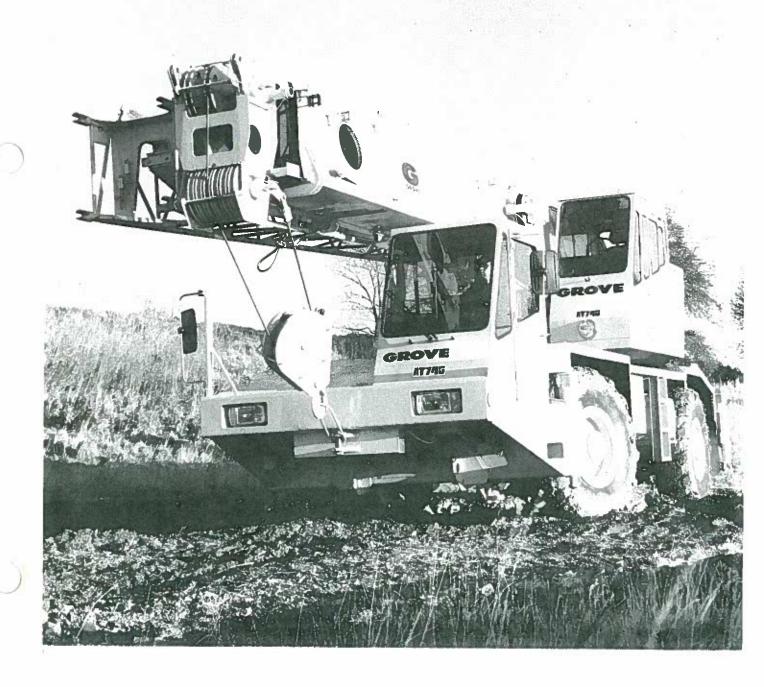
GROVE

- 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

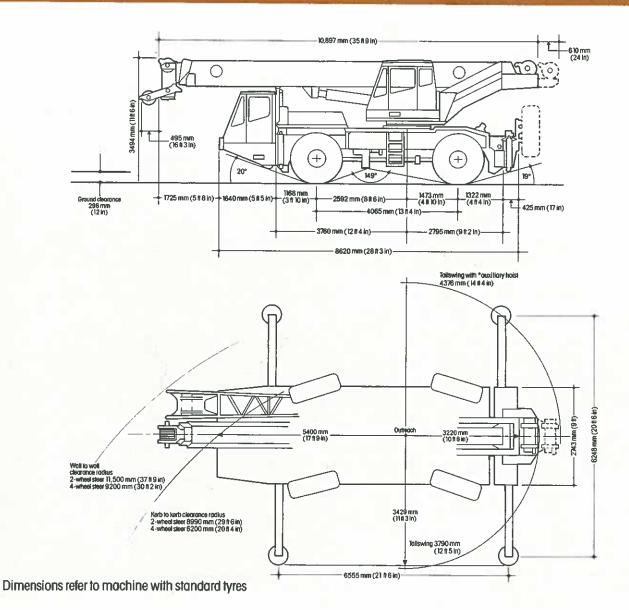
| | AND THE WAY HOLD TO SEE THE SECOND SE | The second secon | THE RESIDENCE OF BUILDING | |
|--------------------|--|--|---|--|
| Frame | High strength steel, all-welded design with integral outrigger housing, and incorporating towing/tie down bracket. | Suspension | Integral hydrogas type all-round. 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. 16.00 x 25 on-off highway radials all round. Tyre inflation kit. Optional *20.50 x 25 on-off highway radials all-round. Full lighting including head, tail, braking, reversing, fog, directional and hazard warning lights. | |
| 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 | | |
| 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) | Lights | | |
| | at 1500 rpm. | 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 | |
| Electrical system | 24 v (including starting). | | driving controls and comprehensive 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 | |
| Axies | Front and rear: Drive-steer with differential and planetary hub reduction. | *Indicates optional item. | * Spare wheel and stowage assembly * Rotating beacon | |

Superstructure specifications

| | | | | 200 |
|---|---|--|--|--|
| 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° 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 tinted 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 | eed 96 m/min (315 fpm) 106 m/min (348 fpm) | 56 m/min (184 fpm) 60 m/min (197 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 look. Maximum speed. | 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) |
| | | Maximum permissible line pull | 3333 kg (7348 lb) | 3333 kg (7348 lb) |
| | | Maximum rope stowage | 185 m x 14 mm (607 ft x % in) | 146 m x 14 mm (479 ft x % 6 in) |
| | | Standard rope supplied | 185 m x 14 mm (607 ft x % 6 in) | 137 m x 14 mm (450 ft x % 6 in) |
| | | *Indicates optional item | | |

^{*}Indicates optional item.

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 folder.



GROVE COLES LIMITED
International Sales and Marketing
Telford Road, Bicester
Oxon. OX6 OTZ.

Telephone: Bicester (0869) 246800 Telex: 837447 Cranes G Fax: Bicester (0869) 246965