12 TON JUMBO (IRON FAIRY)



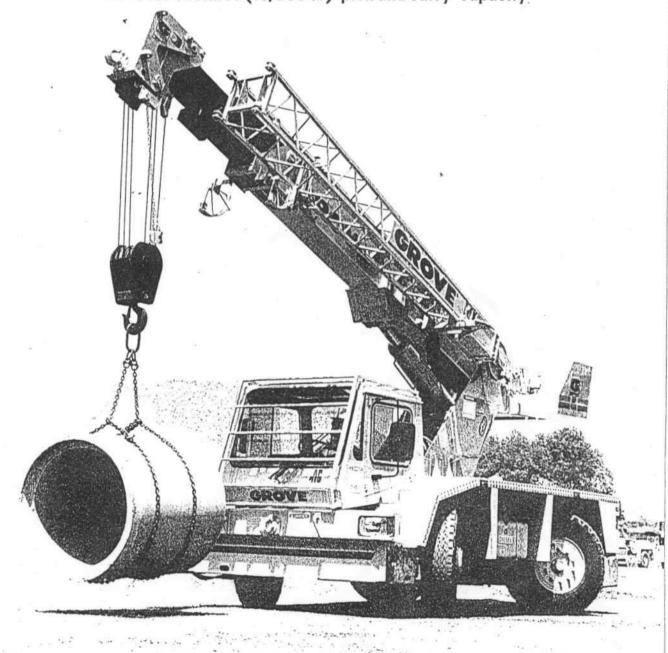


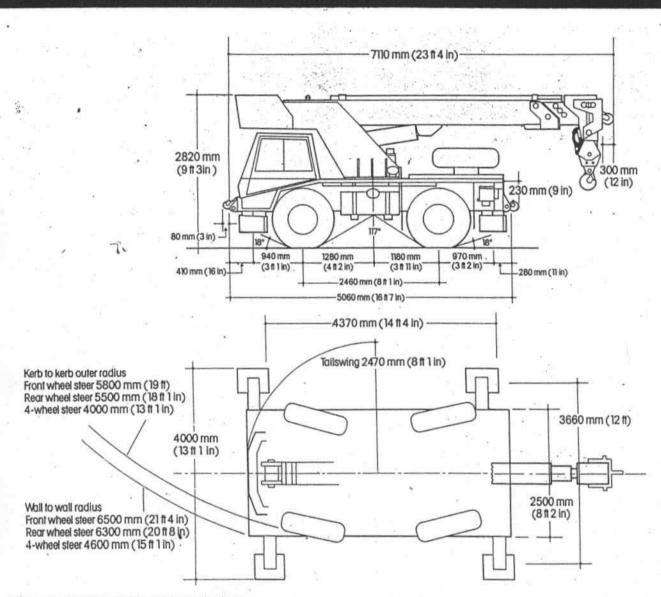
All-purpose hydraulic crane



Maximum on-board tip height 19 metres (62 ft)
 5 metre (16 ft 5 in)\* lattice Swingaway offsettable to 10°
 Maximum speed 55 kph (34 mph)
 Optional \*four wheel steer

Over 8 tonnes (18,000 lb) 'pick and carry' capacity





Dimensions refer to machine with standard tyres



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 totder.

secification No GC/415/1185 Printed in England CSA 9193

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

### LIFTING CAPACITIES - 35 CTION BOOM





Free-on-Wheels 5° Over Front Only - Up to 5 km/h

5.5 m to 9.0 m two piece boom plus 3.5 m PPE sect. .

On-Outriggers 360° Full Circle Slew

5.5 m to 12.5 m fully powered boom

5° Over Front Only Full Circle Si-

			12.5			17.50 m		Static	S-1118-5		7) ×		<b>*</b>	<u> </u>	Villain.	<u> </u>		/5/	20	2
Radius	5.5 m Fully Retracted	5.5 m to 9.0 m	9.0 m to 12.5 m		12.5 m Boo 5.0 m Latt		Telescoping sion at	5.5 m to 9.0 m	9.0 m to 12.5 m		12.5 m Boo 5.0 m Latt		Telescoping ision at	5.5 m to 9.0 m	9.0 m to 12.5 m	5.5 m to	12.5 m Boo 5.0 m Lattic	m Fully 1 te Exten	Telescoping sion at	Radius
		3.0	14.0.0	0° C	0° Offset		10° Offset		123	0°	Offset	109	10° Offset		1	0° Offset		10° Offset		in .
Metres		(Manual Retracted)	(Manual Extended)	Lº	Load	Lº	Load		(Manual Extended)	L°	Load	Lº	Load	(Manual Retracted	(Manual Extended)	Lo	Load	L°	Load	Metres
	H	PAN I	2-583-1	1	15	144	門	自	舜	圔	(4)	124	魯	南	南	蹲	<b>F</b>	南	南	
	* *	* *	* *	**	* *	* *	**	* *	* *	* *	* *	* *	**	*	☆	异	*	*	मं	
2.50 m	12.00	EX		17.		1		8.00				1	/	8.47				700000		2.50 m
2:75 m	12.00	10.50				/		7.15			1		/	7.82						2.75 m
3.00 m	12.00	10.00			. ,	1		6.58				1		7.26						3.00 m
3.50 m	10.23	9.35			/			5.64				/		6.30					1	3.50 m
4.00 m		8.75	V		/			4.68			/			5.67					Y .	4,00 m
4,50 m		8.28	4.80	/				3.85	3.85		/			5.04	4.65			1		4.50 m
5.00 m		7.10	4.50	/				3.23	3.23		1			4.35	4.35			/		5.00 m
6.00 m		5.16	4.05	/				2.37	2.37	/				3.20	3.20		/			6.00 m
7.00 m		3.94	3.70/	65°	2,45	65°	2.00@7.5	1.79	1.79	/65°	2.10	65°	1.90@7.5	2.45	2.45	65°	2,45	65°	1.90@7.5	7.00 m
8.00 m			3.40	610	2.24	63°	1.90		1.44	610	1.69	63°	1.70		1.98	61°	/2.24	63°	1.80	8.00 m
9.00 m			2.80	570	2.10	59°	1.80		1.13	570	1.37	59°	1.40		1.59	57°/	1.84	59°	1.65	9,00 m
10.00 m	-	/	2.35	53°	1.95	55°	1.70	/	0.88	53°	1.13	55°	1.16		1.29	53°	1.54	55°	1.50	10.00 m
12.00 m		/	2.15@10.5	43°	1.60	45°	1.50	/	0.78@10.5	43°	0.77	45°	0.79		1.16@10.5		1.09	45°	1.19	12.00 m
14.00 m				310	1.26	33°	1.20	1		310	0.52	33°	0.54		/	310	0.79	33°	0.86	14.00 m
15.50 m	-			170	1.09	100	0.90./									170	0.62	190	0.67	15.50 m

Free-on-Wheels 360° Full Circle Slew



### LIFTING CAPACITIES — 3 SECTION BOOM





5º Over Front Only Full Circle Sley

		27. 402.00			0.00				,				3 Over 1	TOTAL OTHY	Full Circle S						• This cr						
Radius	5.5 m Fully Retracted	5.5 m to 9.0 m	9.0 m to 12.5 m		12.5 m Boo 5.0 m Latti			5.5 m to 9.0 m	9.0 m to 12.5 m		12.5 m Bo 5.0 m Latt		Telescoping sion at	5.5 m to 9.0 m	9.0 m to 12.5 m		12.5 m Bo 5.0 m Latt		Telescoping sion at	Radius	high lo attemp						
in								0.0 ///		000	Offset	10°	Offset	1		000	Offset	10°	Offset			00	Offset	10°	Offset	in	FREE
		(Fully Pow	rered Boom)	L°	L°	L°	L°	L°	L°	Lº	Lº	Lo	Load	L°	Load	(Fully Powered Boom) L° Load L° Load	(Fully Pov	rered Boom)	L°	Load	L°	Load	7	Capac			
Metres	1-12-1	1	1-1	1	1-5-1	<b>***</b>	H	圔	r p	南	鏬	南	A		A	<b>(2)</b>	科	(AS)	(E)	Metres	suspe correct Free of within						
	**	* *	* *	* *	* *	* *	* *	* *	* *	* *	* #	* *	* *	*	*	n	*	*	*	1, 0	side o a max						
2.50 m	12.00							8.00						8.47						2.50 m	• The n						
2.75 m	12.00	10.25		-		1		7.15						7.82						2.75 m	unifor						
3.00 m	12.00	9.75						6.58						7.26						3.00 m							
3.50 m	10.23	9.35						5.64						6.30						3.50 m							
4.00 m		8.75						4.68						5.67						4.00 m							
4.50 m		8.35	5.10					3.85	3.85					5.04	4.65					4.50 m							
5.00 m		7.14	4.80					3.23	3.23	7.				4.35	4.35					5.00 m							
6.00 m		5.16	4.30					2.37	2.37					3.20	3.20					6.00 m							
7.00 m		3.94	3.85	65°	2,45	65°	2.00@7.5	1.79	1.79	65°	2.10	65°	1.50@7.5	2.45	2.45	65°	2.45	65°	1.90@7.5	7.00 m	Hookblo						
8.00 m			3.19	61°	2.24	63°	1.90		1.44	61°	1.69	63°	1.70		1.98	61°	2.24	63°	1.80	8.00 m	HOOKDIO						
9.00 m			2.59	57°	2.10	59°	1.80		1.13	57°	1.37	59°	1.40		1.59	57°	1.84	59°	1.65	9.00 m	Number						
10.00 m			2.14	53°	1.95	55°	1.70		0.88	53°	1.13	55°	1.16		1.29	53°	1.54	55°	1.50	10.00 m	-						
12.00 m			1.95@10.5	43°	1.60	45°	1.50		0.78@10.5	43°	0.77	45°	0.79		1,16@10.5		1.09	45°	1.19	1 2.00 m	11						
14.00 m				310	1.26	33°	1,20			31°	0.52	33°	0.54			31°	0.79	33°			Weight o						
15.50 m				170	1.09	190	0.90				1					170	0.62	190	0.67	15.50 m	Hookblock						

#### IMPORTANT NOTES

- Capacities are in accordance with DIN 15019
   Part 2 1979 and clause 11 Stability of
   BS 1757: 1981 Power-driven mobile cranes
   with wind forces to tables 2 (a) and 3 (a) of
   BS 2573: Part 1: 1977 Permissible stresses
   in crane and design rules Structures.
- Capacities above the thick line are based on factors other than stability and for this reason crane tipping must not be relied upon as a guide to the capacity limitation.
- The weight of the hookblock, slings and all similarly used load handling devices must be added to the weight of the load.
- Capacities quoted are based on freely suspended loads, with the four telescopic outriggers fully extended and down so that tyres are raised clear of the ground with the machine accurately levelled on firm and uniformly supported surfaces, or when operating free-on-wheels with the machine standing on a firm, level and uniformly supporting surface with tyres inflated to the correct pressure.
- Practical safe working loads are dependent on the supporting surface, wind and other factors affecting stability, hazardous surroundings, experience of personnel and proper handling of the load, all of which must be taken into account by the operator.
- Angle based capacities are determined by laden boom angles given and not by radius. Radii quoted refer only to fully extended booms.
- When the lattice extension is fitted in the operating position, main boom capacities must be reduced by 0.62 tonne.
- When a safe load indicator is specified, certain duties may be modified to compensate for indicator characteristics.
- This crane is designed and manufactured for high load derricking capability. It is safe to attempt to derrick any load.

#### FREE ON WHEELS

- Capacities quoted are based on freely suspended loads with the tyres inflated to their correct pressures and axle locks engaged.
- Free over front capacities must only be lifted within a maximum slewing angle of 2½° either side of crane centre line and are valid only up to a maximum travel speed of 5 km/h.
- The machine must be level on firm and uniformly supporting surfaces.

## **Carrier specifications**



Eramo	High strongth steel with integral outrieses	Maximum speed	55 kph (34 mph)					
Frame	High strength steel with integral outrigger housings. Front and rear towing brackets.	muxillium speed	55 kph (34 mph).	moo				
Outrigger system	Single stage, hydraulic telescopic curved beam outriggers with holding valves. Steel	- Gross vehicle weight and axle loads	Axle 1: 9190 kg (20, Axle 2: 6860 kg (15 GVW: 16,050 kg (3	,123 lb)				
	fabricated outrigger floats, 340 mm (13 in) width.	os Swingowdy	Above weights for Al specification plus 5. *Swingaway.	00 m (16 ft 5 in)				
Outrigger controls	Situated in operator's cab with level bubble adjacent to controls.	Miscellaneous	Full aluminium non	-slip decking,				
Engine	Perkins P6.354.4, six-cylinder, naturally-	equipment		t and rear view mirrors				
	aspirated, water-cooled diesel. 5.8 litre, 89 kw (119 bhp) at 2500 rpm, maximum torque 400 Nm (295 lb ft) at 1400 rpm.	Optional *equipment	Superstructure  * Hookblocks  * Hoist-drum rotation indicator					
Fuel tank capacity	127 litres (33.50 US gallons).	Million was allowed to the same	* Base boom section mounted flood Carrier					
Electrical system	12 v including starting.	ucypanite sephand	* Electric skylight wi * Towing hook(s)	per malamata moot				
Drive	4×2	tenned funiture or addition of the	* Spotlight (360°)  * Spare wheel and to	/re				
Steering	Mechanical, power assisted front axle steering controlled by steering wheel.		* Spare wheel stowd * Cab load guard(s)	ige				
	Optional *four wheel independent steering with rear axle controlled by switch,	*Indicates optional i						
	hydraulically powered to provide co- ordinated or crab steering modes. Lockout for rear axle when centralised.	ton, Spring-opplied, dec broke, Pronger- a lock						
Transmission	Full synchromesh gearbox with five forward and one reverse speed.							
Axles	Front: Drive-steer with planetary hub reduction. Rear: Non drive, non steer. Optional *steer.							
Suspension	Front: Solidly mounted to chassis. Rear: Taper-leaf spring.							
Brakes	Dual-line air system operating on all wheels. Spring applied air-released park brake acting on front wheels.		Volves. Two delivery line fillen projection and indica					
Tyres	$12.00 \times 20\text{-}20\text{PR}$ highway radials allround. Tyre inflation kit.	ons) edipoelly. Editrior						
Lights .	Full lighting including side, head, tail, braking, directional and hazard warning lights.	poliad, electric fon						
Cab	One-man design, steel fabricated, central drive, fitted with safety glass. Full travel and crane controls including outriggers and full instrumentation.							

# Superstructure specifications



800m (d) 837 (d) 838 (d)	5.50 to 12.50 m (18 ft 1 in to 41 ft) three- section full-power synchronised boom, with single lever control. Telescopic sections slide on adjustable and replaceable Nylatron pads. Maximum tip height 14 m (46 ft).	HOIST SPECIFICATION	qual speed, planetal automatic spring- ke, over lower limit				
Optional *Swingaway	5.00 m (16 ft 5 in) lattice Swingaway extension which can be offset 0° or 10°.	obs, 340 mm (154n)	switch.  Main hoist				
ang cealding,	Stows alongside boom when not in use.  Maximum tip height 19 m (62 ft).	Maximum single line speed  Bottom 71 m/min					
Boom nose	Three sheaves mounted on heavy duty roller bearings. Removable pin-type rope guards.	layer Intermediate layer	(233 fpm) 77 m/min (253 fpm)				
Optional *searcher hook	4000 kg (8800 lb) capacity, boom nose mounted.	Top layer	83 m/min (273 fpm)	***			
Boom elevation	One double-acting hydraulic cylinder with integral holding valve provides elevation from 0° to 65°.	Maximum single li Bottom layer	3300 kg	Electrical Systom			
Load-moment indicator and anti- two block system	Audio visual type warning with control lever lockout.	Intermediate layer Top	3070 kg (6768 lb) 2840 kg				
Swing	Double row ball-bearing swing circle with 360° continuous rotation. Spring-applied,	layer	(6261 lb)	4 (220 # 1/ i=)			
	hydraulically released disc brake. Plunger- type two position house lock. Maximum speed 2.45 rpm.	<b>Rope supplied</b> $70 \text{ m} \times 13 \text{ mm diameter } (230 \text{ ft} \times \frac{1}{2} \text{ in}).$ *Indicates optional item.					
Counterweight	Fixed position, 3200 kg (7055 lb).						
HYDRAULIC SYSTEM Pumps	Two gear type pumps, combined capacity 194 litres/minute (51 US gallons/minute). Maximum pressure 211 kg/cm² (3000 PSI).		Front: Drive-sleer with reduction. Resc. Non arive, non s				
Valves	Precision, four-way, double-acting control valves.						
Filters	Two delivery line filters with by-pass protection and indicator.						
Reservoir	182 litres (48 US gallons) capacity. Exterior oil level gauge.	12.00 × 20-20 PR highway rodials all- round. Tyre initializes let.					
Oil cooler	Thermostatically controlled, electric fan motor.						