



LIFTING CHARTS - All Terrain Cranes

DEMAG MODEL AC 350 - 400 TON CAPACITY

Technical description

Carrier

Drive / Steering	12 x 8 x 10.
Frame	Demag-built monobox main frame with outrigger boxes integral, of high strength fine grain structural steel.
Outriggers	4-point outrigger system, fully hydraulic horizontal and vertical extension.
Engine	Water-cooled 8-cylinder DaimlerChrysler diesel engine OM 502 LA, output 448 kW (601 hp) at 1800 1/min, torque 2700 Nm at 1200 1/min. Fuel tank capacity: 175 gallons for both carrier and superstructure.
Transmission	Allison type CLBT 755 with electronic transmission control (ATEC), torque converter and hydraulic retarder.
Axles	Axles 2, 3, 5 and 6 driven, 1, 2, 3, 5 and 6 steering. All drive axles with transverse differential lockout control, all axles hydro-pneumatically suspended and hydraulically blockable.
Wheels and tires	12 disk-type wheels 11.00-25/1.5" fitted with 16.00 R 25 tires.
Steering	Dual-circuit semiblock mechanical steering with hydraulic booster.
Brakes	to EC directives.
Electrical equipment	24 V system.
Driver's cab	Rubber-mounted low-line steel cab, ergonomic design, pneumatically suspended driver's and passenger's seat; electric window winders, heated outside mirrors, right-hand mirror electrically adjustable; dashboard with clearly arranged instrumentation and carrier controls, radio-cassette player.

Superstructure

Engine	DaimlerChrysler OM 906 LA water-cooled 6-cylinder diesel engine, rating: 205 kW (275 hp) at 2300 1/min, torque 1100 Nm at 1300 1/min. Fuel tank on carrier, 13.2 gallons additional tank on superstructure.
Hydraulic system	Powered via 7 hydraulic circuits, 4 main pumps and 3 auxiliary pumps for 4 independent control movements, servo control included.
Hoist 1	Variable-displacement axial-piston hydraulic motor, hoist drum with integral planetary gear reducer and brake.
Slew unit	Axial-piston hydraulic motor with planetary gear reducer, foot-pedal operated brake and spring-applied holding brake.
Boom elevation	One differential cylinder with pilot-controlled lowering brake valves.
Control	Electric pilot control by two 4-way self-centering hand levers.
Crane cab	Spacious all-steel comfortable cab (tiltable) with sliding door and large hinged windscreen, roof window with armoured glass, full instrumentation and crane controls, comfortable seat with ergonomic armrest mounted joystick controls, working light. Self-contained hot water heater with timer and 'Heizmatic' for sensitive heat flow control. Intermittent control window wiper, and washer.
Outrigger loading indicator	Indication of outrigger loading in upper cabin.
Main boom	Basic boom and 4 telescopic sections, fabricated from fine grain structural steel, hydraulically telescoping to full boom length, buckling-resistant Demag ovaloid cross section with diagonal self-centering slider shoes, boom head incl. parts to fit the optional jibs and foldaway extension, boom sections pinned hydraulically.
Counterweight	114,640 lb, divisible.
Safety devices	Electronic safe load indicator with easy-to-read graphic display and sealed touch-type keyboard, digital read-out for hook load, nominal load, radius, boom length and angle. Analog display to indicate capacity utilisation, and monitoring code to assist in trouble shooting. Integrated read-out for boom telescoping, display for duty charts and theoretical outrigger loading. In addition, the following safety devices have been installed: limit switches on hoist and lowering motions, pressure relief and safety holding valves, hoist rotation indicator and anemometer.

Optional equipment

Retarder	Telma retarder.
Night heater	Self-contained hot water heater for carrier cab.
Bunk bed	Carrier cab with bunk bed and roller blinds.
Air conditioning	Air conditioning for carrier cab.
Central lubrication	Central lubrication system for carrier.
Independent rear axle steering (crab steer)	The rear axles can be steered independent of the front axles. Axle 4 is raised hydraulically.
Tires	Disk-type wheels 17.00-25/1.7" fitted with 20.5 R 25 tires. Carrier width 10.2 ft.
Hoist 2	Variable-displacement axial-piston hydraulic motor, hoist drum with integral planetary gear reducer and brake.
Superlift attachment	This attachment, used to increase the crane's load moment, consists of both the boom suspension system with automatic rope length adjustment for boom telescoping and an additional counterweight of 154,324 lb or 198,416 lb. The boom suspension folds out, as required, at 0°, 30° and 60°, and can be lowered to the main boom when not needed or for road transport.
Additional counterweight	Max. 198,416 lb, to be integrated into standard counterweight, installs hydraulically without assist crane.
Main boom extension	39.7 ft and 59.4 ft, 0°, 20° and 40° offset, folding alongside basic boom.
Fixed fly jib (LF)	24.0 ft – 78.0 ft, consisting of components taken from the luffing jib.
Fixed fly jib (SF)	49.2 ft – 162.0 ft, consisting of components taken from the luffing jib.
Luffing fly jib	82.0 ft – 234.3 ft, with luffing mast, plus 9.8 ft adapter, pendant bars, electrical equipment and safety devices, the 2nd hoist is required when using the luffing fly jib.
Heavy-lift attachment 1	2 additional sheaves for duties 288,805 lb – 352,740 lb.
Heavy-lift attachment 2	6 additional sheaves for duties > 352,740 lb.
Heavy-lift attachment 3	2 pulley blocks with 11 sheaves each and connecting beam for duties > 529,109 lb.
Boom point sheave	Sheave folding to side of boom head.
Additional jack leg	For special duties with 46.6 ft main boom.
Auxiliary reeving winch	To simplify reeving of hook blocks.