



## LIFTING CHARTS - All Terrain Cranes

### DEMAG MODEL AC 200 - 220 TON CAPACITY

## Technical description

### Carrier

<b>Drive/Steering</b>	12 x 6 x 8
<b>Frame</b>	Demag-built monobox main frame with outrigger boxes integral, fabricated from high-strength fine grain structural steel.
<b>Outriggers</b>	4-point outrigger system, fully hydraulic horizontal and vertical extension.
<b>Engine</b>	Daimler Chrysler OM 442 LA water-cooled 8-cylinder diesel engine, rating 405 kW (550 hp) at 2100 1/min, torque 2350 Nm at 1100 1/min, fuel tank capacity 132 gallons.
<b>Transmission</b>	ZF Transmatik transmission with converter (14 speeds forward and 1 reserve), transfer case with differential lockout control.
<b>Axles</b>	Axles 2, 5, 6: drive, 1, 2, 5, 6: steer. Differential locks: axles 2, 5 and 6: transverse lockout, 5th axle: longitudinal lockout.
<b>Suspension</b>	Hydropneumatic suspension on all axles, all axles hydraulically blockable.
<b>Wheels and tires</b>	12 disk-type wheels, 11.00-25/1,7 fitted with 14.00 R 25 tires.
<b>Steering</b>	Dual-circuit semiblock mechanical steering with hydraulic booster.
<b>Brakes</b>	to EC directives. Sustained action brake: constant decompression with butterfly valve, engine exhaust brake, hydraulic retarder.
<b>Electrical equipment</b>	24 V system.
<b>Driver's cab</b>	Rubber-mounted all steel low-line cab, ergonomic design, with pneumatically suspended driver's seat and 1 mate's seat; adjustable steering wheel; heated outside mirrors, electr. adjustable on right-hand side; dashboard with clearly arranged full instrumentation and carrier controls.

### Superstructure

<b>Engine</b>	Daimler Chrysler OM 904 LA water-cooled 4-cylinder diesel engine, rating 125 kW (170 hp) at 2300 1/min, torque 660 Nm at 1200 1/min, fuel tank capacity: 80 gallons.
<b>Hydraulic system</b>	2 variable displacement axial piston pumps with automatic power control and 1 fixed displacement pump to provide 3 hydraulic working circuits and 3 simultaneous working movements, 1 fixed displacement pump for the low pressure servo control.
<b>Hoist</b>	Variable displacement axial piston hydraulic motor, hoist drum with integral planetary gear reducer and brake.
<b>Slew unit</b>	Axial piston hydraulic motor with planetary gear reducer, pedal-operated brake and spring-applied holding brake.
<b>Boom elevation</b>	1 differential cylinder with pilot-controlled lowering brake valve.
<b>Crane cab</b>	Spacious all-steel (tiltable) comfortable cab with sliding door and large hinged windscreen, roof window of armoured glass, full instrumentation and crane controls, comfortable seat with ergonomic armrest mounted joystick controls, working light. Self-contained and engine-dependent hot water heater with engine preheating and 7-day programmable timer, thermostat-controlled. Intermittent control windscreen wiper and washer.
<b>Main boom</b>	Boom base and 4 telescopic sections fabricated from fine grain structural steel, hydraulically telescoping. Anti-deflection Demag ovaloid design with diagonal self centering slider shoes, hydraulic pin-connection of boom sections.
<b>Counterweight</b>	88,200 lb.
<b>Safety devices</b>	Electronic safe load indicator with easy-to-read graphic display and sealed touch-type keyboard, and digital readout for hook load, nominal load, radius, boom length and angle. Analog display to indicate capacity utilization and monitoring code to assist in trouble shooting. Integrated control system for boom telescoping, display for duty charts and theoretical outrigger loading. Further safety devices: limit switches on hoist and lowering motions, pressure relief and safety holding valves, hoist rotation indicator and anemometer.

### Optional equipment

<b>Drive/steering</b>	12 x 8 x 8. Additional 1st axle drive.
<b>Wheels and tires</b>	12 disk-type wheels, 11.00-25/1.7 fitted with 16.00 R 25 tires.
<b>5-axle carrier</b>	Drive/steering 10 x 6 x 8: axles 2, 4 and 5: drive, axles 1, 2, 4 and 5: steer. Differential locks: axles 2, 4 and 5: transverse lockout control, 4th axle: longitudinal lockout control. Wheels and tyres: only 14.00 R 25.
<b>Outrigger loading indicator</b>	Indication of outrigger loading on carrier and in upper cab.
<b>Trailer tow coupling</b>	Rockinger coupling, D-value = 120 kN incl. connections, or Ringfeder coupling, D-value = 190 kN incl. connections.
<b>Eddy-current brake</b>	Eddy-current brake serves as additional sustained action brake.
<b>Night heater</b>	Self-contained water heater for carrier cab.
<b>Bunk bed</b>	Bunk bed in carrier cab.
<b>Independent rear axle steering (crab steer)</b>	Rear and front axles are steered independently. The rigid axles are raised hydraulically.
<b>Main boom extension</b>	Lengths: 31.8 ft, 47.5 ft, 67.3 ft, 86.9 ft, 106.6 ft, 126.3 ft. Max. system lengths: up to 197.0 ft main boom: 197.0 ft + 126.3 ft = 323.3 ft; up to 181.1 ft main boom: 181.1 ft + 126.3 ft = 307.4 ft.
<b>Luffing fly jib</b>	65.6-190.3 ft, with luffing mast and 9.8 ft adapter, pendant bars, electrical equipment and safety devices (the 2nd hoist drum is required when using the luffing fly jib).
<b>Additional counterweight</b>	53,000 lb, comprising of 2 x 11,000 lb and 2 x 15,500 lb.
<b>Additional jack leg</b>	For special duties with 48,2 ft main boom.
<b>Hoist II</b>	Hoist frame with hoist drum integral. Powered by Hydromatik variable displacement axial piston motor, hoist drum with planetary reducer integral, brake and hoist rope. Hoist II mounts on the rear of the superstructure frame.