



LIFTING CHARTS - All Terrain Cranes

TEREX MODEL AC 500-2 - 600 TON CAPACITY

TECHNICAL DESCRIPTION

CARRIER

Drive / Steering	16 x 8 x 14.
Frame	Demag-built special main frame of high-strength fine-grain structural steel, with pot-shaped centre section and foldaway outrigger boxes.
Outriggers	4-point outrigger system, folding outrigger beams, fully hydraulic horizontal and vertical extension, providing 360° continuous rotation. Outrigger loading indicator.
Engine	Water-cooled 8-cylinder DaimlerChrysler diesel engine OM 502 LA, output 448 kW (610 hp) at 1800 1/min, torque 2700 Nm at 1200 1/min. Fuel tank capacity: 156 gallons.
Transmission	Allison type CLBT 755 with electronic transmission control (ATEC), torque converter and hydraulic retarder.
Axles	1 + 2 + 5 driving, connectable drive of axle 3. 1-4 and 6-8 steering, all axles hydropneumatically suspended and hydraulically lockable.
Wheels and tires	16 wheels, 14.00 R 25.
Steering	Dual-circuit semiblock mechanical steering with hydraulic booster.
Brakes	In conformity with EC directives. Sustained action brake: constant decompression valve, exhaust brake, hydraulic retarder integrated into gearbox.
Electrical equipment	24 V system, lighting in compliance with EC standards.
Driver's cab	Rubber-mounted low-line steel cab, ergonomic design, with pneumatically suspended driver's seat and one passenger's seat; vertically adjustable steering wheel; heated outside mirrors, mirror electrically adjustable; dashboard with clearly arranged instrumentation and carrier controls.

SUPERSTRUCTURE

Engine	Water-cooled 6-cylinder DaimlerChrysler diesel engine OM 906 LA, output: 205 kW (279 hp) at 2300 1/min, torque 1100 Nm at 1300 1/min. Fuel tank capacity: 79 gallons.
Hydraulic system	Powered via 5 hydraulic circuits, 4 main pumps for independent control movements, 1 pump for auxiliary circuits, one control pump for the servo control.
Hoist I	Axial-piston variable displacement motor, hoist drum with integrated planetary gear reducer, and brake.
Slew unit	Axial piston motor with planetary gearing, spring-applied automatic holding brake.
Boom elevation	2 differential cylinders with pilot-controlled lowering brake valves.
Control	Electric pilot-control by two self-centering servo 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, air-conditioning.
Main boom	Boom base and four telescopic sections fabricated from fine grain structural steel, telescoping with partial load. Buckling-resistant Demag ovaloid design with diagonally arranged self-centering slider shoes.
Counterweight	220,500 lb, divisible.
Safety devices	Electronic safe load indicator with large graphic display and sealed touch-type keyboard, digital read-out for hook load, nominal load, boom length, angle, and radius. Analog display to indicate the capacity utilization, and monitoring code to assist in trouble shooting. Integrated control system for boom telescoping, display for load charts and both theoretical and measured outrigger loadings. In addition, provision has been made for: limit switches on hoist and lowering motions, pressure relief and safety holding valves, hoist rotation indicator and anemometer.

OPTIONAL EQUIPMENT

Superlift attachment	This attachment used to increase the crane's load moment consists of both the boom suspension system folding out, as required, at 0°, 30° or 60°. The boom suspension system provides for an automatic rope length adjustment for boom telescoping, and is lowered to the main boom when not needed (axle loads to be observed).
Main boom extension	Lattice extension consisting of components of the 295.3 ft luffing jib, 19.7 – 98.4 ft long, 0°, 20° and 40° offset from 39.3 ft length.
Fixed fly jib	Fixed lattice jib, comprising of parts of the luffing jib, 27.6 – 204.7 ft m long (LF system).
Luffing jib	78.7 – 295.3 ft, plus 13.1 ft adapter, with two luffing masts, pendant bars, electrical equipment, safety devices (hoist II is required when using the luffing jib).
Additional counterweight	176,400 lb, integrated into the standard counterweight, installed by the crane itself.
Additional jack leg	For special duties with 48.2 ft main boom.
Hoist II	Axial piston variable displacement motor, hoist drum with integrated planetary reduction, spring-applied multi-disk brake, hoist rope.
Independent rear axle steering	

STERLING CRANE

NOTES TO LIFTING CAPACITY

Ratings are in compliance with ISO 4305 and DIN 15019.2 (test load = 1.25 x suspended load + 0.1 x dead weight of boom head).
Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings.

Crane operation with main boom is permissible up to a


wind pressure of: 1.25 lb/ft²


wind speed of: 21.9 mph

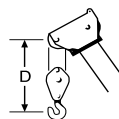
Consult operation manual for further details.

Note: Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes.
Crane operation is subject to the computer charts and operation manual both supplied with the crane.

KEY

 Counterweight

 Lifting capacities on outriggers 360°

„D“ 

SL Superlift