

**TEREX**  **CRANES**

**ATT 900**



F / GB

**PPM**

# ATT 900

## MAIN TECHNICAL CHARACTERISTICS

● <b>TYPE</b>	- 4-axle all terrain crane
● <b>CAPACITY</b>	- 80 tonnes at 3 metres ( €€ ) over 360° - 85 tonnes at 3 metres (85%) over 360° - 90 US tons at 3 meters over 360°
● <b>BOOM</b>	- 53 metres on 6 boom sections - Extension 8 m to 15 m - Offset angle 0°, 15° and 30°
● <b>HEIGHT</b>	- 52 m under hook on main boom - 70 m under hookblock on lattice extension
● <b>HYDRAULIQUE</b>	- 3 main circuits. Independence of each movement
● <b>CHASSIS</b>	- 8 x 6 x 8
● <b>ENGINE</b>	- MERCEDES Euromot 2 - 315 kW (428 HP) Turbo (carrier) - MERCEDES Euromot 1 - 125 kW (170 HP) Turbo (upperstructure)
● <b>SUSPENSION</b>	- Hydropneumatic suspension with constant trim and slope level adjustment

## WEIGHT

Counterweight \ Axles	1	2	3	4	Total Weight
2,15 t <sup>(1)</sup>	12 t	12 t	11,8 t	11,8 t	47,6 t
10,75 t <sup>(2)</sup>	14,1 t	14,1 t	14,5 t	14,5 t	57,2 t

<sup>(1)</sup> 1600 x 25 tyres - 25 t-hookblock

<sup>(2)</sup> 1600 x 25 tyres - 50 t-hookblock - Double extension

## GEARS

Gear ratios (Forward/Reverse)	1	2	3	4	5	6	Rear
	1	1	1	1	1	1	1
Speed (low range)	4,27	11,3	16,6	25,7	34,1	41,4	-5,13
Speed (high range)	7,38	19,6	28,7	44,5	59	75	-8,9
Gradeability	44%						
	16.00 R 25 et 20.5 x 25						

Lifting	Main winch: maximum linepull (1st layer/last layer)	8,85 / 6,2 tonnes
	Main winch: maximum single line speed	129 m/mn
	Auxiliary winch: maximum linepull (1st layer/last layer)	5,65 / 4,5 tonnes
	Auxiliary winch: maximum single line speed	88 m/mn
Boom hoist	Time to boom hoist from - 3° to 80°	41 seconds
Telescoping	Time to extend from 11,60 metres to 53 metres	126 seconds
Slewing	Speed of movement	0 à 2,5 rpm
Outriggers	Time to extend horizontal beams	40 seconds
	Time to extend vertical jacks	40 seconds

# CARRIER AND POWERTRAIN

- **STRUCTURE** - Machine welded carrier frame from HLE steel.
- **OUTRIGGER OPERATION** - Dual telescopic beams sections at rear, single telescopic beams at front. Vertical jacks allowing to lift the wheel from the ground.
  - Horizontal beams extended independently. Outriggers controlled from each side of the carrier.
  - Stabilizer pads permanently in position. Stowed by sliding under the outrigger jack.
- **ENGINE** - Mercedes OM 501 LA, 6 cylinders in V turbodiesel with intercooler. Water cooled. 315 kW at 1.800 rpm (428 HP). Maximum torque : 2000 N.m at 1,080 rpm. Fuel tank capacity : 430 litres (2 x 215 litres). Complies with EURO II-EC anti-pollution directives.
- **TRANSMISSION** - Torque convertor and ALLISON HD 4560 (P) gearbox with 6 forward and 1 reverse gears.
  - Automatic lock-up on all gears.
  - 1 drive/steer axle with inter wheel lockable differential (locked in low range).
- **AXLES** - N° 1 drive/steer axle with inter wheel lockable differential.
  - N° 2 - steer axle.
  - N° 3 - drive/steer axle with inter wheel lockable differential.
  - N° 4 - drive/steer axle with inter wheel lockable differential. Electrical retarder.
  - Lockable / delockable front drive axle (automatically locked in 8 x 6). No front/rear differential.
- **SUSPENSION** - PPM HYDROSTABLE hydropneumatic suspension :
  - Shock absorption controlled via integrated valves inside suspension cylinders.
  - Hydraulic anti-rolling device stabilizes the crane in corners and bends.
  - Constant trim and slope level adjustment.
  - Suspension hydraulically lockable.
- **STEERING** - Power-assisted steering by double steering circuit complying with EC directives.
  - Axles 1 and 2 are steer axles on road (axles 3 and 4 locked).
  - Axles 1, 2, 3 and 4 are steer axles on site.
  - Short radius steer and crab steer on site.
- **BRAKING** - Complying with EC directives.
  - Twin pneumatic brake circuit with brake drums on each axle.
  - Emergency brake, independance of the circuits.
  - Emergency brake: spring-loaded on axles 2, 3 and 4.
  - Electrical retarder on axle 4.
  - Exhaust brake (coupled with the electrical retarder in accordance with engine RPM) and turbo motor brake
- **TYRES** - Eight 16.00 R 25 or 20.5 x 25 tyres..
- **CAB** - Two-seats cab, tinted windows, heater, cataphoresis treated cab to prevent rusting, adjustable mirrors, securit belts, new design.
- **ELECTRIC CIRCUITS** - Complies with EC directives.
- **SECURITY DEVICE** - Air dryer to clean and dry the air circuit.

# UPPERSTRUCTURE

- **CONSTRUCTION** - Machine welded frame from HLE steel. Ball bearing slewing ring with external gear teeth.
- **ENGINE** - Mercedes OM 904 LA, 125 KW (170 HP), 4-cylinder in line turbo diesel with intercooler. Water cooled. Maximum torque : 660 N.m at 1,200 rpm. 4.25 litre capacity. Fuel tank capacity : 200 litres.
- **WINCH / HOOKBLOCK** - Hydraulic axial piston motor. Integrated planetary reducer. Cable diameter : 19 mm. Maximum cable line speed : 129 m/mn. 50-tonne (9 lines) or 25-tonne (5 lines) hookblocks.
- **BOOM HOIST** - 1 double acting cylinder. Speed of descent controlled by safety valve.
- **SLEWING**
  - Free rotation of the upperstructure with dynamic foot brake.
  - Precise and progressive start of all the movements.
  - Gradual movements with engine at idle.
  - Hydraulic vane motor with planetary reducer. Dynamic hydraulic disc brake integrated in the reducer.
- **TELESCOPING**
  - Hydraulic continuous and sequential telescoping, enabling to telescope with partial load.
  - Time to extend from 11,60 m to 53 m : 126 seconds in extension, 165 seconds in retraction.
  - 6-section boom - 11,60 m to 53 m length.
  - Each section is made of 2 folded U-shape boxes made from high tensile steel.
  - New boom-section guiding system.
- **CAB**
  - Panoramic cab with full visibility and equipped with all the controls for operating the crane in comfort and safety. Tinted windows.
  - 0 to 20° offset angle. Cataphoresis treated cab. New design. Heater.
- **HYDRAULICS**
  - All movements are completely independent.
  - The speed of the movements is independent of the load.
  - Precise and progressive start of movement.
  - Speed of the movements proportional to the joystick angle.
  - Gradual movement with engine at idle.
  - 900 liter tank.
  - 1 main pump 2 x 107 cm<sup>3</sup>. 1 auxiliary pump of 3 sections (fixed flow).
  - Hydraulic oil cooler.
- **SAFETY DEVICES**
  - LMI (Load Moment Indicator) alphanumeric LCD display.
  - Anti two-block device.
  - 3 wraps remaining safety device.
  - Safety valves on telescoping, derricking and stabilizers.
  - Pressure limiters on all hydraulic functions.

## OPTIONS

- Lattice extension : 8 and 15 metres. Offset angles : 0°, 15°, 30° with an hydraulic jack.
- 80-ton (13 lines), 50-ton (9 lines), 40-ton (7 lines), 25-ton (5 lines), 15-ton (3 lines) hookblocks.
- 5-ton single line hookblock.
- Auxiliary winch 4.5 t line pull.
- Spare wheel.
- Winch line speed indicator.
- Towing device.
- Braking ABS.
- Driving from the upper cab.
- Other optional equipments on request.

