TEREX CRANES

ATT 1000

F / GB

PPM

ATT 1000

MAIN TECHNICAL CHARACTERISTICS

- **TYPE** - 4-axle all terrain crane
- **CAPACITY** - 90 tonnes at 3 metres (CE) - 95 tonnes at 3 metres (85%)
  - 100 US tons at 3 meters
- **BOOM** - 53 metres on 6 boom sections
  - Extension 8 m to 15 m - Offset angle 0°, 15° and 30°
- **HEIGHT** - 52 m under hook on main boom - 70 m under hookblock on lattice extension
- **HYDRAULIQUE** - 3 main circuits. Independence of each movement
- **CHASSIS** - 8 x 6 x 8
- **ENGINE** - MERCEDES Euro 2 - 315 kW (428 HP) Turbo (carrier)
  MERCEDES Euromot 1 - 125 kW (170 HP) Turbo (upperstructure)
- **SUSPENSION** - Hydropneumatic suspension with constant trim and slope level adjustment

WEIGHT

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

(1) 1600 x 25 tyres - 25 t-hookblock
(2) 1600 x 25 tyres - 50 t-hookblock - Double extension

GEARS

Gear ratios (Forward/Reverse)	1	2	3	4	5	6	Rear 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 2 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.

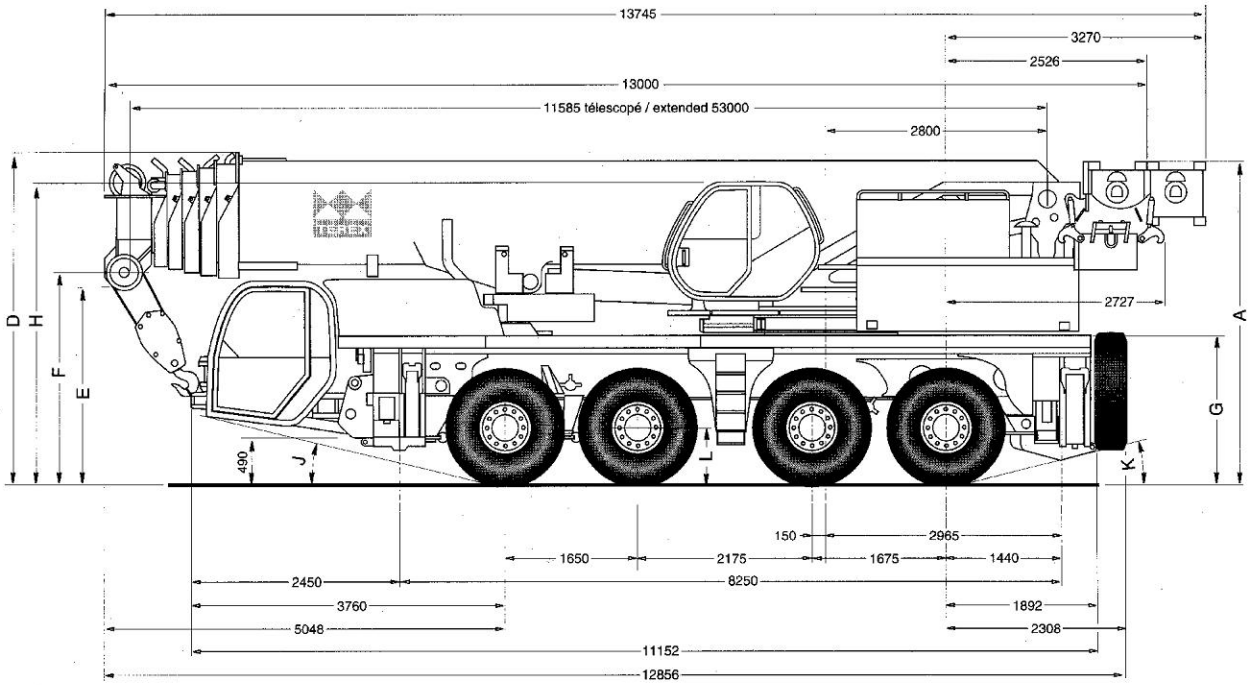
● HYDRAULICS
- All movements are completely independent.
- The speed of the movements is independent of the load.
- Precise and progressive start of movement.
- Speed of the movements proportional to the joystick angle.
- Gradual movement with engine at idle.
- 900 liter tank.
- 1 main pump 2 x 107 cm^3. 1 auxiliary pump of 3 sections (fixed flow).
- Hydraulic oil cooler.

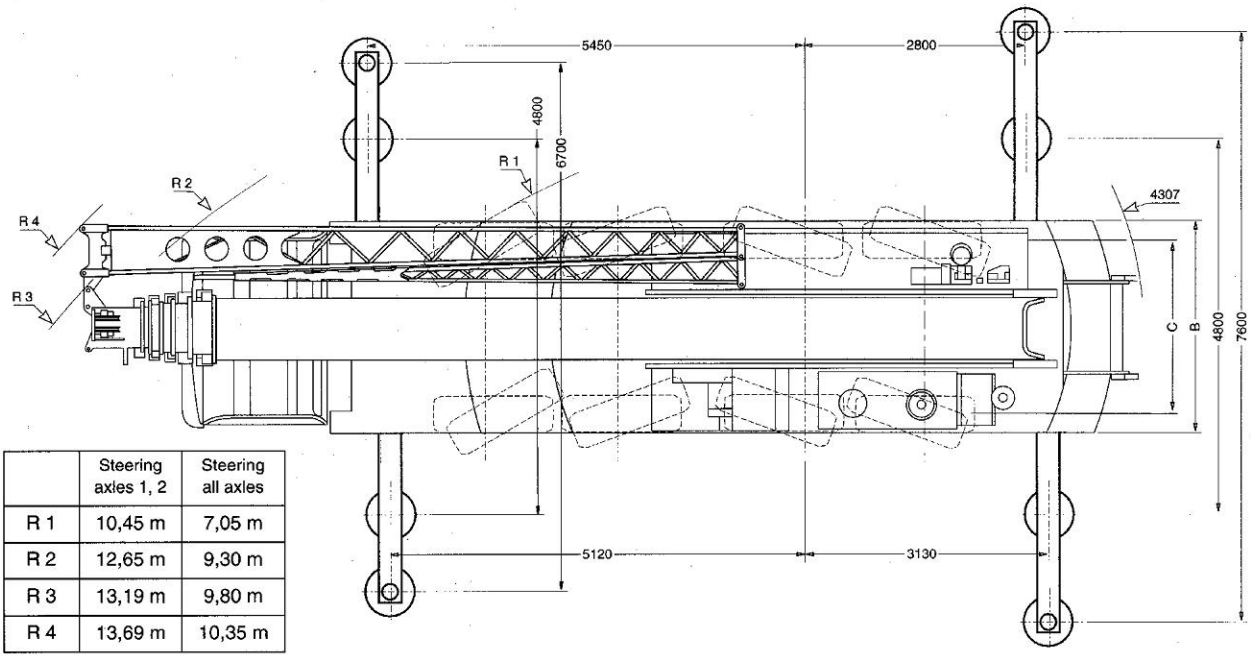
● SAFETY DEVICES
- LMI (Load Moment Indicator) alphanumeric LCD display.
- Anti two-block device.
- 3 wraps remaining safety device.
- Safety valves on telescoping, derricking and stabilizers.
- Pressure limiters on all hydraulic functions.

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.

DIMENSIONS





	Steering axles 1, 2	Steering all axles
R 1	10,45 m	7,05 m
R 2	12,65 m	9,30 m
R 3	13,19 m	9,80 m
R 4	13,69 m	10,35 m

	A	B	C	D	E	F	G	H	J	K
16.00 R 25	4000	2680	2185	4000	2357	2546	1775	3695	15°	19°
20.5 R 25	3999	2750	2176	3999	2356	2545	1774	3694	15°	19°

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