TADANO ALL-TERRAIN CRANE

MODEL : AR-1000M

(CARRIER : FAUN RTF 100-4)

GENERAL DATA

CRANE CAPACITY 100,000 kg at 2.8 m

BOOM 5-section 11.7 m -- 45.0 m

DIMENSIONS

(with superstructure)

Overall length approx. 10.635 mm (13.530 mm)

Overall width 2.95 approx. 2.780 mm (2.780 mm)

Overall height approx. 2.765 mm (3.950 mm)

MASS

Gross vehicle mass +560 K6 approx. 28, 210 kg (60, 000 kg)
-front ω/20.5 approx. 16. 380 kg (30, 000 kg)
-rear approx. 11. 830 kg (30, 000 kg)

PERFORMANCE

Max. travelling speed computed 70 km/h (70 km/h) Gradeability(tan 8) computed 52 % (33.5 %)

CRANE SPECIFICATIONS MODEL AR-1000M CAPACITY 100,000 kg at 2.8 m 5-section full length power telescoping boom of round hexagonal box construction with 6 sheaves at boom head.
2-telescoping mode (lor H) selection
Telescoping mode 1: 2nd & 3rd boom sections synchronized
4th & top boom sections synchronized BOOM Telescoping mode II: 2nd through top boom sections synchronized The telescoping system consists of three double-acting telescope cylinders and a cable system. Hydraulic cylinders fitted with holding valves. Pully retracted length......11.7 m
Fully extended length......45.0 m
Extension speed............33.3 m in 85 s JIB 3-section full length power synchronized telescoping [ib. Offset angle (5° - 45°) by tilt cylinders SINGLE TOP Single sheave. Mounted to main boom head for single line work. ELEVATION By a double-acting hydraulic cylinder, fitted with holding valve. Elevation speed.....-2' to 82' in 45's HOIST - Main winch 2-speed type with grooved drum driven by hydraulic axial piston motor through wiach speed reducer. Power load lowering and hoisting. Single line speed HOIST 2-speed type with grooved drum driven by hydraulic axial =Auxiliary winch piston motor through winch speed reducer. Power load Single line speed Diameter × length..... 20 mm × 140 m

HOOK BLOCK-100_t capacity

8 sheaves, swivel type hook with safety latch.

HOCK BLOCK — 45 t capacity

3 sheaves, swivel type hook with safety latch.

HOOK BLOCK -6.5 t capacity

Swivel book with safety latch for single line use.

SWING

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Hydraulic axial piston motor driven through planetary swing speed reducer. Continuous 360° full circle swing on ball bearing slew ring. Swing free/lock selection. Equipped with spring loaded swing brake to be operated by switch.

Swing speed...... 2 r/min

HYDRAULIC SYSTEM

Oil pressure displayed on pressure gauge for main circuit.

Hydraulic oil tank capacity....

approx. 820 liters Filters.....Return line filter

CRANE OPERATION

CAB

SAFETY DEVICES

Boom angle indicator Boom elevation slowing-down and stop device Pendant type over-winding cutout Winch automatic fail-safe brake Winch drum lock Cable follower Over-unwinding prevention Hook safety latch Pilot check valves Holding valves Counterbalance valves Hydraulic pressure relief valves Swing brake Swing lock Automatic outrigger extended detector Automatic counterweight combination detector Swing area limiting device Automatic swing stop device Control lever stand and lever lock

TADANO Automatic Moment Limiter (Model : AML-V) Main unit in crane cab gives audible and visual warning of approach to overload. Automatically cuts out crane motions before overload. With working range limit function and multi-display.

OUTR LOGERS

4 hydraulically operated outriggers. Each outrigger controlled simultaneously or independently from either side of carrier. Equipped with sight level gauges. All cylinders fitted with pilot check valves.

Extended width

Fully......7, 200 mm
Middle.....6, 360 mm, 4, 900 mm, 3, 600mm
Minimum....2, 480 mm
Float size(Square)....500 mm

ENGINE FOR CRANE

Model..... NISSAN NEST Type......4 cycle, 6 cylinder in line, direct injection. water cooled diesel englas.

STANDARD EQUIPMENT

Control pedals for elevating and telescoping Cloth-covered cab seat External lamp(AML) Counter weight dismounting device Superstructure dismounting device Crane cab air-conditioner
Jib hydraulic extension device
Hook movement amount indicator
AM/FM radio Hot & cool box Lunch table Bottle keeper 3-working lights Sliding retracted float Cab floor mats Sun visor Extension steps Electric windshield wiper and washer Roof window wiper and washer

COUNTERWE LOUT

Fitted to swing frame. Mass...... Max. 14,000 kg

OPTIONAL SOUTPMENT

Swing alarm Drum monitor(TV camera) Bed for napping