

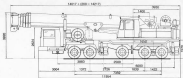
LOKOMO

COTAC FINLAND



**LOKOMO A 370 N
70 ton hydraulic truck crane**

LOKOMO A 370 N



TECHNICAL DATA

Service weight	90 t
Lifting capacity	70 t/30 m
Jack centre distance	7.9 m
Max. lift height (*)	
— main boom	45 m
— lattice flyextension	81 m
Lift pull, max.	50 kN
Lift speed, max.	1.2 m/s
Slewing speed	0-2.4 rpm
Travel speed	60 km/h

SUPERSTRUCTURE LOKOMO 370 N Power Unit

Subengine: Volvo TD 60 D diesel engine
Max. output: 115 kW/155 hp (154 hp/220 kW)
Hydraulic torque converter

Pumps

4 fixed displacement axial piston pumps for working motions. Flow output pump driven directly from engine. Pump outputs 3 x 208 l/min, 1 x 75 l/min. Max. operating pressure 22 MPa.

Tank capacities

Fuel tank	320 l
Hydraulic oil reservoir	720 l

Slewing

Axial piston steel motor with planetary reduction gear. Free slewing with lost operated hydraulic oil brake. Lockable manual brake. Motor bearing slow ring.

Cab

Luxury cab of solid steel plate construction, thermal and sound insulated, lined and padded, with seating for driver and one passenger. Good storage capacity. Driver's seat is fully adjustable and hydraulically damped. Heavy duty cab heater and through-floor ventilation. Complete instrumentation. Laminar safety glass windshield and winddown doors. The seat as well as the interior fluorescent heating. The steering wheel is adjustable.

Electrical Equipment

24 V system
Alternator 1500 W
Two batteries 12 V 150 Ah
Halogen working lights
Windscreen wipers with interval control
Windshield washer
Signal horn
LOKOMO RVR 6 Safe Load Indicator

Boom

4-segment fully hydraulic telescoping boom of high-strength alloy fine-grain steel. Boom length can be extended with several fly extensions.

Winch

Large diameter grooved drum driven by hydraulic motor, equipped with automatic safety brake. Non-sinking rope (20 mm/200 m). Auxiliary winch obtainable as optional equipment.

CARRIER LOKOMO A 370

Engine

Subengine: Volvo TD 60 D diesel engine
Max. output: 140 kW/194 hp (138 hp/220 kW)

Transmission

Synchronesh Volvo S60 70 gearbox with 14 speeds: forward and 4 reverse. The gearbox is made up of two parts: basic box and range unit. The basic box has 6 speeds forward and 4 reverse. Mounted on the basic box input shaft there is a splitter that doubles up the forward gears. The range unit is a two-stage planetary gear.

Clutch

Train plate-dry type semi-coupled clutch x 300 mm.

Front Axles

Three heavy duty steering axles with power assistance.

Rear Axles

Two heavy duty hub reduction axles with inter-axle differential. All three differentials are lockable.

Frame

T-shaped multibeam frame specially designed and fabricated by Lokomo for crane service. The multibeam construction gives high resistance to torsion and bending, and the I-beam upper surface is wide enough (2000 mm) to support the slewing ring over its whole area.

Hydraulic Outriggers

Outrigger castings are integral and extrudable. Material is high strength steel as in the boom, with reinforcing beams extending to 7.5 m jack centres. The crane is equipped with fifth outrigger jack to permit full 360 degrees rotation.

Brakes

Service: Full air pressure dual-circuit brakes on all wheels.
Parking: Spring-actuated parking brakes on the 2nd, 4th and 5th axle, air released, with emergency release.

Slewing

Hydraulically power assisted 2F slewing, with three hydraulic power assisted cylinders. Large capacity sensorump.
Emergency slewing system as standard.

Wheels and Tyres

Front: 16 R 22.5 extra wide steel cord radial tyres on 1400 x 203 disc wheels.
Rear: 2 x 14.75 R 20 steel cord radial tyres on 1000 x 20 disc wheels.

Tank capacities

Fuel	400 l
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Cab

Special flat-wide luxury cab of steel construction, thermal and sound insulated, lined and padded, with seating for driver and one passenger. Good storage capacity. Driver's seat is fully adjustable and hydraulically damped. Heavy duty cab heater and through-floor ventilation. Complete instrumentation. Laminar safety glass windshield and winddown doors. The seat as well as the interior fluorescent heating. The steering wheel is adjustable.

Electrical Equipment

24 V system
Alternator 1500 W
2 batteries 12 V 150 Ah
Windscreen washer
Halogen headlights
Lighting acc. to traffic regulations
Mirrors with heating
Driver seat with heating

Optional equipment

Mechanical extension 8 m
Lattice flyextension 10.5 x 5.5 x 16 m (offset 0° and 30°)
Lattice extension 10.5 m (offset 0° and 30°)
Auxiliary winch
High lift cable
Lifting blocks
Grapple hydraulics

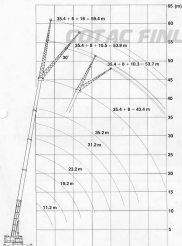
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Lifting capacities:

Boom length Reeler (m)	without mechanical extension					Mechanical extension (m)
	71.2	83.2	95.2	107.2	119.2	43.4
10	80.0					
12	80.0	80.7				
14	81.0	81.2				
16	81.5	81.5	81.5			
18	81.0	80.5	79.5			
20	80.0	79.5	78.5	77.5		
22	78.5	77.5	76.5	75.5		
24	76.5	75.5	74.5	73.5		
26	74.5	73.5	72.5	71.5		
28	72.5	71.5	70.5	69.5		
30	70.5	69.5	68.5	67.5	66.5	
32	68.5	67.5	66.5	65.5	64.5	
34	66.5	65.5	64.5	63.5	62.5	
36	64.5	63.5	62.5	61.5	60.5	
38	62.5	61.5	60.5	59.5	58.5	
40	60.5	59.5	58.5	57.5	56.5	
42	58.5	57.5	56.5	55.5	54.5	
44	56.5	55.5	54.5	53.5	52.5	
46	54.5	53.5	52.5	51.5	50.5	
48	52.5	51.5	50.5	49.5	48.5	
50	50.5	49.5	48.5	47.5	46.5	
52	48.5	47.5	46.5	45.5	44.5	
54	46.5	45.5	44.5	43.5	42.5	
56	44.5	43.5	42.5	41.5	40.5	
58	42.5	41.5	40.5	39.5	38.5	
60	40.5	39.5	38.5	37.5	36.5	
62	38.5	37.5	36.5	35.5	34.5	
64	36.5	35.5	34.5	33.5	32.5	
66	34.5	33.5	32.5	31.5	30.5	
68	32.5	31.5	30.5	29.5	28.5	
70	30.5	29.5	28.5	27.5	26.5	

1. The ratings comply with ISO 4308, DIN 15019.2 June 1979 and BS 1127-1991

Fly extension 10.3 m			
Boom length 43.4 + 10.3 = 53.7			
Extension angle 0-degrees		Extension angle 30-degrees	
Radius (m)	Load (t)	Radius (m)	Load (t)
10	6.00		
12	6.00		
14	6.00		
16	5.75	18	4.40
18	4.95	18	4.20
20	4.50	20	4.00
22	3.75	22	3.50
24	3.50	24	3.50
26	3.50	26	3.50
28	3.50	28	3.50
30	3.25	30	3.50
32	1.95	32	3.20
34	1.75	34	1.95
36	1.50	36	1.50
38	1.20	38	1.50
		40	1.15



Boom length (m)	35.2 + 10.3		35.2 + 10	
	Fly (m)	0°	30°	45°
Load, without the mechanical extension				
10	5.40			
12	5.20			
14	5.20	1.80	2.80	
16	5.20	1.80	2.80	
18	5.20	1.75	2.75	
20	5.20	1.65	2.65	1.20
22	5.20	1.65	2.65	1.20
24	5.20	1.55	2.40	1.10
26	5.20	1.50	2.30	1.05
28	5.20	1.50	2.30	1.05
30	5.20	1.45	2.15	0.95
32	5.20	1.45	2.15	0.95
34	5.20	1.40	2.05	0.90
36	5.20	1.40	2.00	0.85
38	5.20	1.40	2.00	0.85
40				

Boom length (m)	43.4 + 10.3		43.4 + 10	
	Fly (m)	0°	30°	45°
Load, with the mechanical extension				
10	3.80			
12	3.80			
14	3.80			
16	3.80	1.80	2.80	
18	3.80	1.80	2.80	
20	3.80	1.80	2.80	1.20
22	3.80	1.75	2.75	1.20
24	3.80	1.70	2.70	1.15
26	3.80	1.65	2.65	1.15
28	3.80	1.60	2.60	1.10
30	3.80	1.60	2.60	1.05
32	3.80	1.55	2.55	1.00
34	3.80	1.50	2.50	1.00
36	3.80	1.50	2.50	1.00
38	3.80	1.50	2.50	1.00
40	3.80	1.50	2.50	1.00
42				