LOKOMO 961 S Harvester

TECHNICAL DATA

Width 2080 mm
Length 9770 mm
Height 4300 mm
Ground clearance 700 mm
Weight approx. 30 t
Ground pressure with tracks 60 kPa
Turning radius inner 5.7 m

Power train
Pulling force of the unit 243 kN
Travel speed 30 km/h

Engine
Deutz F10 L 413 F, 10-cylinder air cooled, direct injection, 4-stroke diesel engine.
Output 229 kW (311 BHP)/38 r/s SAE
266 kW (280 HP)/35 r/s DIN 6270 B
Max. torque 925 Nm/25 r/s

Transmission
Hydrodynamic transmission, Voith G 473-L torque converter with variable blades, 4 gear forward and reverse. The drop box is equipped with a No-Spin differential lock between the front and rear drives.

Axles
No-Spin differential locks and multiple disc brakes on front and rear axles. Power transmission to the bogies and wheels is fully geared. 8 off 17.5x25/16 pr tires.

Brakes
Driving brakes: Dual circuit, pneumatically actuated hydraulic multiple disc brakes in an oilbath on the front and rear axles, also as serving as working brakes.
Hand brake. Spring loaded, air released brake, which also serves as an emergency brake.

Frame
The front and rear frames are steel plate fabrications. The hinge pivot is oscillating ±10 deg., the oscillation being limited by means of cylinders. These cylinders will be locked automatically as soon as the machine stops.

Steering
Articulated frame steering powered by hydraulic cylinders.
Articulation ± 40 deg.
An Orbital valve on the steering wheel for driving on the road.
Driving off-the-road is carried out with foot pedal.

Felling head and knuckle boom
2-lever control
Chipping type felling head with a maximum cutting diameter of 60 cm
Side tilt of felling head ±12 deg.
Tilt mechanism for felling the tree ±70 deg.
Knuckle boom
max. reach 8.0 m
min. reach 4.1 m
reach upwards 7.6 m
lifting capacity at max. reach 15 kN
min. reach 30 kN

Processing line
Located longitudinally on the right hand side of the operator's cab.
The intermediate arm feeds the tree to the delimber.
Delimber: One fixed and two movable knives.
Topping knife
2 horizontal feed rolls
Feeding speed 2.6 m/s
Pull of feed rolls 37 kN
The compression of the feed rolls will vary according to the pull resistance.
A measuring roll for counting the length of the tree.
Circular slashing saw diameter 1200 mm
rotational speed 18 r/s
peripheral speed 68 m/s

Sorting and collecting devices
Saw logs are dropped to the ground on the right hand side of the machine.
Pulpwod is collected into two pockets located on each side of the machine.

Pockets
cross sectional area
max. 0.7 m²
length
max. 3800 mm
suitable for pulpwod lengths 2 to 6 m

Hydraulics
6 separate hydraulic circuits
8 hydraulic pumps
Capacity of hydraulic oil reservoir 400 l

Electric system
4 off 12 V batteries
24 V circuit with 200 Ah capacity
Alternator 28 V 85 A

Automatic control unit
The processing program is selected with the key board.
Nine different lengths for saw logs.
Pulpwod length can be regulated from 0.1 m to 9.9 m at 10 cm steps.
Assorting of pulpwod is carried out by push buttons.
The control unit has also a 4-way joy stick for manual operation.
The pockets are emptied by pressing the push buttons.

Operator's cab
The safety cab fulfills all Scandinavian ergonomic requirements and is designed for one man operation.
The cab is equipped with an air conditioner (heating + cooling) and with an additional heater, which can be used while the machine is standing.

Standard equipment
Preheating unit for engine compartment
Automatic central lubrication system for all important lubricating points
Automatic fire extinguishing system

Optional equipment
2 pairs of tracks
Radio Communication radio

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Specifications subject to change without notice or obligation.
The LOKOMO 933 TC is an 8-wheel drive clam skidder with articulated frame steering.

**TECHNICAL DATA**

**Engine**
- Deutz PBL 413 F 6-cylinder, 4-stroke air-cooled diesel
- Max. output: 118 kW (160 HP) / 36 r/min
- Max. torque: 485 Nm (36 r/min)
- Alternatively: Deutz PBL 413 F 8-cylinder, 4-stroke air-cooled diesel
- Max. output: 151 kW (205 HP) / 37 r/min
- Max. torque: 720 Nm (25 r/min)

**Transmission**
- Clark 13.5 HR 23621 Power Shift transmission
- 2x3 gears forward and reverse, mechanical drop box
- Two PTOs for hydraulic pumps
- Auxiliary gearbox integral with the main gearbox with 2 PTOs for optional extra pumps

**Axles**
- Identical tandem axles front and rear with
- 17.5-25 tyres (8) front and rear

**Front frame**
- Plate construction. Rigid mounted closed belly guard with openings and doors for service operations.

**Rear frame**
- Plate box construction. The loader foot, which is a steel casting, is fixed on the front part of the rear frame.

**Brakes**
- Hydraulic air boosted dual circuit multiple disc driving brakes in an oil bath on both axles. The driving brake servos also as service brakes and on the front axle, as a combined spring-applied parking and emergency brake.

**Steering**
- Hydrostatic articulated frame steering with two steering cylinders and an Orbital valve on the steering wheel.
- Articulation ±40°
- For driving off-the-road further an electric steering system operated with pushbuttons.
- Max. steering moment 90 kNm.

**Hydraulic system**
- 2 separate hydraulic circuits.
- 2 hydraulic pumps 2x100 l/min/41 r/min in addition to these, when required, 3x100 l/min/41 r/min. Operating pressure 17.5 MPa.
- The loader is operated hydraulically with a servo operated two-stick control system.

**Cab**
- Sound and thermal insulated one-man safety cab built to fulfill the ergonomic standards.
- Opening side window and roof hatch.
- Dual controls for driving forward and reversing.

**Loader**
- Total lifting moment 80 to 140 kNm.
- For example: Cranab 7010
- Osa 399
- Cranab 9010

**Electrical system**
- Voltage: 24 V
- Batteries (2) 12 V/170 Ah
- Alternator, output 28 V 55 A
- Master switch

**Standard equipment**
- Fresh air heater unit
- Guard screens for rear and side windows
- Exterior rear-view mirrors (2)
- Interior cab light
- HB and LB lights, asymmetrical
- Parking and brake lights, and direction indicators
- Working floodlights (12)
- Wipers on windscreen and rear window
- Swivel seat
- Complete instrumentation
- Fire extinguisher
- Provision for radio and communication
- Pocket for books and maps
- Compressed-air take-off for tire inflation

**Optional equipment**
- Tracks for rear and front wheels
- Snow chains for front and rear wheels
- Engine preheater
- Air conditioning
- Various loaders
- First aid kit
- Sun visors
- Winch
- Tow hook rear
- Compressed-air equipment for tire inflation and cleaning.

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