

Lännen

Wheel Loader Backhoe
for demanding jobs



8800G

Lännen

Lännen MCE Group (turnover EUR 40 million, 2010e; personnel 150) is the Nordic countries' leading manufacturer of specialised machinery and equipment for earthmoving, waterway and environmental works, as well as providing associated services.

The group incorporates Lännen MCE Oy and Lännen Tractors Oy in Finland and the Swedish subsidiaries Lännen Tractors AB and Lundberg Hymas AB.

Company production takes place in Finland (Loimaa) and Sweden (Skellefteå). The company's share of exports has constantly risen over recent years as new marketing areas have been developed, now accounting for over 60 percent of net sales.

Lännen MCE provides a comprehensive dealer and service network in its main markets, combined with high quality technical support and spare part availability.

Lännen MCEs are sold and marketed in over ten European countries.



Technical specifications

Engine and auxiliary equipment

4-cylinder, 4-stroke, turbo-charged Commonrail Diesel engine with intercooler, meets emission requirements according to Stage 3A 97/68/EC

Model	SisuDiesel 49 CWA
Displacement	4,9 l
Output (ISO14396), 2100 r.p.m.	90 (123) kW (hp)
Max. output, 1800 r.p.m.	119 (162) kW (hp)
Max. torque, 1200-1500 r.p.m.	696 Nm

Electronic SisuTronic engine control system, integrated by means of CAN bus into the control system for the machine and the transmission

Capacity of the fuel tank	150 l
Fan with hydraulic operation; coolant, intercooler, hydraulic oil	24V/100 A
Alternator with multi-groove flat belt with automatic tightening	4 kW
Starter	2 x 145 Ah
Batteries	220V / 1100 W
Electric engine heater	

Transmission

Hydrostatic transmission

Variable displacement axial piston pump Sauer, flow	Sauer Danfoss
Variable displacement axial piston pump Sauer, displacement	115 cm ³ /r
Control system for the drive and operating hydraulics developed by Lännen.	160 cm ³ /r

Travel speed adjuster – inching with accelerator pedal, max. speed adjustment also directly from the screen

Feed-back from the HSD drive automatics to the diesel engine

Gearbox

2-speed gearbox with power-shift	ZF
Full Power Shift, electric control	
Drive speed forward/reverse	

1. gear	0 - 11 km/h
2. gear	0 - 45 km/h
	120 kN

Max. Pulling force

Axles

Dana axles, 4-wheel drive

Automatic friction locks in the front and rear

Front axle oscillation

Automatic locking of oscillation with load-sensing	+ /- 12 °
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Wheels

Tyres in the front and rear 580/65B34 161B TRI TL

Nokian industrial pattern

Rim DW16-34, reinforced by flanging, valve guards	520/70-34 Industrial
Tread / outside width	2020 / 2500 mm

Front mudguards, attached to the front axle

Brakes

Oil pressure operated brakes in oil bath on front and rear axle

Operating controls also in digging position

Parking brake, the range gearbox acts as a parking brake, electric control

Traction release combined with parking brake



Steering

Hydrostatic LS-Orbitrol steering with dual displacement	
Steering angle of the articulated joint	+ / - 42 °
Extremely large turning angle of the articulated joint	4,9 / 5,3 m
Proportional steering with roller switch also on the left control lever	

Operating hydraulics

Load-sensing system	
Variable displacement axial piston pump, max. flow	280 l / min
Max. operating pressure/max. operating pressure with turbo-hydraulics (Option)	225 (245) bar
Oil cooler return filter with magnet	
Electric pilot control for the hydraulic system	
Standard control levers of pilot control can be replaced by minilevers	
Volume of hydraulic system, tank/total volume	140 / 210 l

Driver's cabin

Rops and Fops tested	
Noise level LpA / LWA (measured values)	68 / 99 dB
Ergonomic design of the cabin	
Thanks to the unobstructed view, flexible and precise control of different work stages	
Operating controls—all the most often used functions located in the control levers	
Efficient cabin heating and air-conditioning, which is a standard feature	
Hydraulic 2-stage tipping of the cabin with manually operated pump	

Front loader

Mechanical self-level feature, position indicator for bucket	
Mechanical BM-quick-hitch	
Ergonomic pilot-pressure operated multi-purpose joystick at the seat	
Float-position for the lifting cylinders, electric control	
Pressure of the operating hydraulics (with turbo-hydraulics)	225 (245) bar
Lifting force in the lower position	70 (75) kN
Lifting force in the upper position	53 (56) kN
Break-out force at the cutting edge of the bucket	67 (73) kN
Loading height (bottom of the bucket on a level)	3800 mm
Roll-back angle in the lower position	39°
Roll-back angle in the upper position	47°
Dump reach	870 mm
Recommended bucket volume	SAE 1500 - 1700 l

Backhoe

Knuckle boom, proportional pilot control in the joystick	
Universal hydraulics, proportional pilot control in the joystick	
Pins and bushings with special hardening, spherical bearings on cylinders	
Pressure of the operating hydraulics (with turbo-hydraulics)	225 (245) bar
Lifting force at max. reach	21 (24) kN
Digging force at the end of the dipper stick	65 (70) kN
Break-out torque of the bucket	94 (100) kNm
Swing torque	43 kNm
Digging reach	6830 mm
Digging depth	4970 mm
Loading height, bottom of the bucket on a level	3870 mm
Swing angle of backhoe	180 + 54 °
Turning angle of the bucket	186 °
Recommended bucket volume	SAE 500 l

Main dimensions

Length/width	8850 / 2500 mm
Height cabin/backhoe	3150 / 4475 mm
Ground clearance	550 mm
Weight distribution, in the front/rear, boom in the upper position	4750 / 7750 kg
Operating weight	12 500 kg

A strong, fast, agile and amazingly versatile machine with excellent off-road properties for the most demanding operations

- Properties of an efficient wheeled loader combined with impressive digging capacity
- The re-designed backhoe is indisputably the strongest on the market in this machine segment
- The strong frame structure and the outstanding stability enable handling even heavy loads in various work situations
- Powerful traction force and on-road speed, max 45 km/h, yet excellent economy
- Superb agility despite the large size; the articulated joint turns 42° and, as required, the front axle oscillates 12°
- Excellent off-road properties; 34" tyres, 55-cm ground clearance and a completely armoured underside
- Unrivalled applicability; all essential operating controls, including steering, are located in the control levers within easy reach
- Unobstructed view during working to the front, to the rear, to the side and also upward
- Carefully designed locations for the operating controls helps the operator work longer without getting tired
- Well-functioning and proven heating and circulation system of cabin air; air-conditioning is a standard feature

The modern control system for the drive and operating hydraulics developed by Lännen

- The electric pilot control enables setting the parameters for each task and driver individually directly from the display.
- The digging geometry of the backhoe has been revised, the torque arms of the cylinders have been extended, the turning force is the greatest on the market
- Thanks to the new operating valves, specifically designed for Lännen, the manoeuvrability and precision of the backhoe are outstanding.
- Additional hydraulic circuits for a hydraulic breaker or an additional cylinder are a standard feature

From the factory right to challenging work objects

- The solidly built frame structure and excellent stability of the Lännen Wheel Loader Backhoes enable the machines to be fitted for demanding special tasks at the factory
- Lännen 190 Access Platform/Pole Grip for power-line and telecommunications construction
- Lännen rail-road outfit for demanding operations on rails including limiters of movements and safety equipment as required by the Scandinavian legislation
- The equipment required for district maintenance contracting, public works, clearing of brushwood and many other tasks ready installed and tested available straight from the factory
- The Lännen Wheel Loader Backhoes are always manufactured on the customer's order taking into account the specific needs and work conditions



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