

# Lännen

Genuine Wheel Loader Backhoe



**8600G**

# Lännen

Lännen Tractors is the Nordic countries' leading manufacturer of specialised machinery and equipment for earthmoving, waterway and environmental works, as well as providing associated services.

The Lännen Tractors concern incorporates Lännen Konekeskus Oy in Finland and the Swedish subsidiaries Lännen Tractors AB in Jönköping and Lundberg Hymas AB in Skellefteå.

The concern turns over about 45 million euro with 160 employees. The company's share of exports has constantly risen over recent years as new marketing areas have been developed, now accounting for over 60% of turnover.

Lännen Tractors is part of the Finnish AVS group, which turns over more than 100 million euro annually and has a total of 400 employees.



# 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 44 CWA
Output (ISO14396), 2100 r.p.m.	90 (123) kW (hp)
Max. Output, 1800 r.p.m.	99 (135) kW (hp)
Max. Torque, 1200 - 1500 r.p.m.	600 Nm
Displacement	4.4 l
SisuTronic electronic engine control system, CAN bus for data transfer	
Visco-clutch for cooler fan	
Alternator with multi-groove flat belt with automatic tightening	24V/100 A
Starter	4,0 kW
Batteries	2 x 145 Ah
Electric engine heater	220V / 1100 W

## Transmission

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

Two-speed gearbox	Dana	
Electro-hydraulic gear-shift		
Speed forward / reverse		
	1. gear	0 - 15 km/h
	2. gear	0 - 45 km/h
Max. Pulling force		85 kN

## Axles

Strong driving axles both in the front and rear	Dana
Flexible front axle oscillation with large angle	+ /- 12 °
Automatic friction locks in differentials in the front and rear	
Automatic locking of oscillation with load-sensing	

## Wheels

Large wheels in the front and rear	18.4B30 159B -Industrial
Tread / outside width	2020 / 2490
Rim DW16-30, reinforced by flanging, valve guards	
Front mudguards - attached to front axle	

## Brakes

Oil pressure operated brakes in oil bath on front and rear axle  
Operating controls also in digging position  
Parking brake; disc brake on the cardan shaft, electric control from the control panel  
Traction release combined with handbrake



## Steering

Hydrostatic LS-Orbitrol steering with dual displacement	
Extremely large turning angle of the articulated joint	+ / - 42 °
Turning radius to wheel/bucket	4.9 / 5.3 m
Proportional steering with roller switch also on the left control lever	

## Operating hydraulics

Load-sensing system	
Practical automatic speed control with revolution memory	
Variable displacement axial piston pump, max. flow	200 l/min, 2000 rpm
Max. operating pressure/max. operating pressure with turbo-hydraulics (optional)	225 (245) bar
Hydraulic oil cooler	
Hydraulic pilot control	
Electric pilot control for the hydraulic system, Lännen 8600 Ge	
Standard control levers of the Lännen 8600 Ge with electric 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)	69 / 99 dB
Thanks to the unobstructed view, flexible and precise control of different work stages	
Ergonomic design of the cabin helps the operator work longer without getting tired	
Operating controls and the most often used functions are 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 lifting, electric control on the control lever	
Pressure of the operating hydraulics (with turbo-hydraulics)	225 (245) bar
Lifting force in the lower position	64 (70) kN
Lifting force in the upper position	42 (46) kN
Break-out force at the cutting edge of the bucket	60 (65) kN
Loading height (bottom of the bucket on a level)	3450 mm
Roll-back angle in the lower position	38°
Roll-back angle in the upper position	45°
Dump reach	850 mm
Bucket recommendation (depending on density of the material being loaded)	SAE 1300-1500 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 maximum reach	16 (17,5) kN
Digging force at the end of the dipper stick	59 (64) kN
Break-out torque of the bucket	73 (79) kNm
Swing torque	43 kNm
Digging reach	6410 mm
Digging depth	4500 mm
Loading height, bottom of the bucket on a level (depression of tyre 0)	3880 mm
Swing angle of backhoe	180 + 54 °
Turning angle of the bucket	186 °
Recommended bucket volume	SAE 410 l

## Main dimensions

Length (transport)/width	8550 / 2480 mm
Height cabin/backhoe	3090 / 4340 mm
Ground clearance	500 mm
Weight distribution, in the front/rear	4100 / 7400 kg
Operating weight	11 500 kg

#### Completely new control system for the drive and operating hydraulics developed by Lännen.

- Excellent control of work stages requiring precision or speed
- Improved control of operating hydraulics during different work stages
- Four different work modes for universal hydraulics and knuckle boom hydraulics, tilting and rotating the Rototilt, thumb roller control of the articulated steering individually adjustable for each operator and work even in models equipped with hydraulic pilot control
- Rapid and flexible adjustment of individual work modes directly from the touchscreen.
- The sister model Lännen 8600 Ge is available with electric pilot control for the hydraulic system incorporating 4 different modes for all movements of the operating hydraulics, individually adjustable for each driver and work

#### New central frame and swing frame for the backhoe

- Excellent visibility to the rear; the valve block is recessed in the frame
- New swing geometry, extended torque arms of the cylinders, increased turning force and improved controllability
- Increased distance between the central frame and swing frame bearings
- Outstanding manoeuvrability and precision, thanks to the new digging valves, specifically designed for Lännen.
- No more transport chains; transport height indicator on the swing frame

#### A strong, fast, agile and amazingly versatile machine with excellent off-road properties for various challenging tasks

- The strong frame structure and outstanding stability enable even handling of heavy loads in different work positions
- Powerful traction force and on-road speed, max 45 km/h, yet excellent economy
- Superb agility; the articulated joint turns 42° and, as required, the front axle oscillates 12°
- Excellent off-road properties; 30" tyres, 50 cm ground clearance and a completely armoured underside
- Unrivalled usability; all essential operating controls, including, steering, positioned in the joysticks within easy reach
- Unobstructed view during work to the front, to the rear, to the side and also up
- Carefully designed and ergonomically correctly positioned operating controls help the operator work longer without getting tired
- Well-functioning and proven heating and circulation system of cabin air; air-conditioning is 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 construction
- Lännen rail-road outfit for demanding operations on rails including limiters of movements as required by the legislation
- The equipment required for district maintenance contracting, public works, clearing of brushwood and many other tasks directly from the factory



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