

» Technical Specifications

W100

Motor

- Deutz 4-cylinder water-cooled TCD 3.6 L4
- 100 kW (136 DIN PS) at 2,300 RPM.
- Emissions stage Tier 4 final
- Displacement 3,600 cc
- Electronic Engine Management EMR 4
- Fuel tank approx. 180 litre

Working hydraulics

- Regulating pump with LS management 240 l/min. at 2,300 RPM.
- 150 l tank volume
- System pressure up to 330 bar, crane operation up to 220 bar
- Biodegradable Panolin HLP SYNTH 46 with bypass filter
- Load-sensing hydraulic system
- Valve block for front blade, steering and priority valve
- Valve block for winch drive and rear blade

Frame

- Front frame in stable box profile with oil-, fuel-, and AdBlue®-tank.
- Rear frame in stable box-section construction
- Stable central joint with tapered roller bearings
- Torsion on the frame supported by strong slewing ring +/- 22°
- Torsion valve block through double-acting hydraulic cylinder with automatic operation, can also be switched on and off using the joystick
- All floor pans on the underside are hinged for maintenance work

Cab

- Spacious, soundproofed safety tilt cab with Lexan-Margard windows in the rear hazard area and level floor
- Cab certified for ROPS, FOPS and OECD
- Hinged roof hatch
- Full entry and exit on both sides for safety
- Very good all-round view through panoramic window
- Both doors with sliding windows
- Folding steering wheel with height and angle adjustment
- Warm water heating with fan and windscreen defroster with adjustable ventilation nozzles
- Air-suspended comfort swivel seat with pedals, seat heating, thigh and lumbar adjustment and safety belt
- Front and rear windscreen wiping system
- All important vehicle information through display instruments of the CAN-Bus system and indicator lights
- 5 driver memories
- Radio with USB and SD card
- 8 working lights, all round
- Operation using 3-axle joystick with 5 proportional functions and 4 digital functions as well as selection lever for driving forwards and backwards and mode switching when under load

Power transmissions – Welmatik

- Hydrostatic power unit with electronic power control
- 2-gear transmission, can be changed under load (SIB)
- Axle disconnect to the rear axle
- NAF planetary axles with multi-disc brakes running in oil bath
- front and rear 100% separated switchable differential locks
- Dual-circuit braking system, spring-controlled parking brakes
- Adjustable driving dynamics controller
- Ecomode

Steering

- Articulated frame steering with double-acting cylinders and end of stroke damper; for on-road usage Orbitrol with emergency steering device
- Steering movement +/- 46°

Forestry equipment

- Welte double-drum winch HZM 14 with a tensile force of 14 t; without rope
- 2 pressure reduction valves to set tensile force for each drum
- Frictional reverse operation
- 2-gear oil engine with Weltronik system (can be set to soft start)
- Hydraulically height-adjustable rear blade with roller supports and two endless turnable double roller propellers
- Front blade with lifting height of 2.15 m and lifting power of max. 38 kN

Tyres (standard)

- front – 600/60 – 30.5 – Trelleborg T414
- rear – 600/60 – 30.5 – Trelleborg T414

Electrical system

- System voltage 24 V
- Battery power 2 x 92 Ah
- Alternator 100 A

Speed

- Gear 0 – 12 kph
- Gear 0 – 36 kph

Other

- Extensive, high-quality tool kit
- German-language user instructions
- Spare parts manual
- Declaration of conformity
- TÜV certificates for street use in accordance with StVZO as a tractor/equipment carrier

» See further information at www.welte.de

Welte Fahrzeugbau GmbH / Am Gansacker 8 / 79224 Umkirch
Fon: +49 (0) 76 65 94 37-0 / Fax: -37 / Mail: info@welte.de

Welte
FORST- UND SPEZIALFAHRZEUGE

Dein Stamm-Kapital

New from Welte: **THE NEW GENERATION – W100**



The small and compact one for high demands

With Tier 4 final and SIB technology

We reserve the right to make technical and design changes. Status 09/2016/1.000

» The latest generation of innovations from Welte – AS STANDARD

Interview with...



» Veit Schmierer
Sales Department,
Germany (South West)

For machines, what does “large” and “small” mean?

For many applications you need a really large 6-wheel machine, which delivers the performance, but costs more in terms of investment. But over recent years, through technological advances and market requirements, the machines which were “small” have grown in both dimensions and weight. The W100 fills exactly this gap in the lower segment.

What has changed for the driver in terms of use?

He has the benefit of being on the move with one of the smallest, most modern 4-wheel machines, which complies with the PrallCon standard. The weight and tyre width are within a range which also allows you to drive on delicate surfaces without causing damage. In this way, the W100 is suitable for a whole range of applications and has an increased service life, for example, when the forest floor changes with the seasons and due to changes in the weather.

Welte
FORST- UND SPEZIALFAHRZEUGE

Dein Stamm-Kapital

This is leading technology at its best.



SIB technology in series

PIONEERS DRIVE WELTE. CONTINUOUSLY.

» SIB – Switching gear when moving

The transmission technology from Welte, which allows you to change gear continuously when using the forestry machines and therefore gives more efficient operation with greater driving comfort.

- Changing gear without having to stop
- More power per cubic metres
- Robust, reliable, proven gearbox
- Less RPM at the top speed
- Leads to significant fuel saving
- Higher level of drive comfort



For more information on switching gear when moving www.welte.de/sib

» Emissions system stage TIER 4 final

The permitted emissions of diesel engines has been reduced in several stages over the last 15 years. Our new generation of vehicles uses the latest emissions system.

- With AdBlue®
- SCR and particle filter
- Active/passive filter regeneration
- Pressure, temperature and NOx sensors
- Good mixing and rapid combustion



How do you get the balance between powerful technology and small size?

The claim of the W100 was clear from the beginning: to be a 4-cylinder machine which is thoroughly convincing from a technological point of view and is also lightweight, small, compact and manoeuvrable. And if you dare to set limits for pure PS performance, then valuable new perspectives will open up in other places.

Ground-breaking, in a compact package

The W100 is compactly dimensioned and low weight on its own yet it comes with a modern Tier 4 final engine and SIB technology for shifting while in movement in the standard version. In the 4-wheel sector, the W100 is therefore not only an ideal auxiliary rope machine, but it can also be delivered in many different versions, as you would expect from Welte. As well as SIB technology, the W100 is fitted with a

high-performance crane, a double-drum winch and a height-adjustable rear blade. True to the proven Welte modular construction system, of course the clambunk can also be expanded if necessary, so that the customer can set the machine up to suit his intended use.

Contemporary customer requirements combined with timeless quality

The W100 is a typical Welte product, in more than one sense. Just the way that the W100 skilfully brings together different requirements, the focus for new machines and technological developments from Welte must also be on balance. We always strive to take our customers' wishes into serious consideration, while keeping our sights on the marketplace. So we develop vehicles, which offer customers the greatest benefits and high performance. Machines which are robust to use, ergonomic for the driver and environmentally-friendly. But quality is always first and foremost – which is reflected in the high resale price.

Interview with...



» Stefan Keller
Dealer in Switzerland

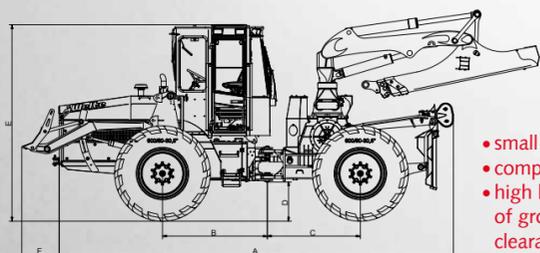
Who is particularly looking forward to the W100?

In particular the Swiss municipalities, who make up 75% of my customers, are interested in smaller machines, as they are able to take more time in logging the wood. As public institutions they are particularly sensitive to the forest as a social area and that they are handled responsibly. With the W100 they can work in a way which is more focussed, more thorough and yet still versatile.

Is it true that you are extending the 1-year guarantee from Welte by another year?

Correct. Welte machines are extremely robust, solid and produce sustained performance. Many customers, companies or municipalities do not use them to their full capacity. I see this long guarantee as a personal vote of confidence for the machines and as a sign of how many hours the customers can actually get from their Welte!

compact power pack

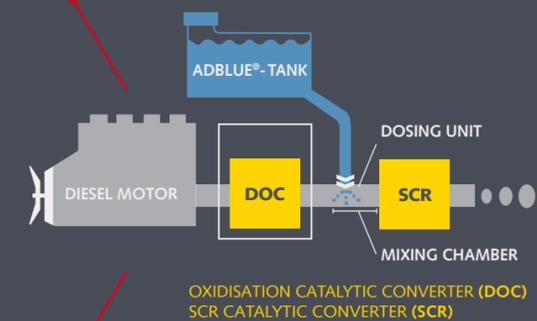


- small
- compact
- high level of ground clearance

A	B	C	D	E	F
6147	1635	1450	615	3080	584

Construction of the missions system:

» 96% less emissions in comparison with TIER 1



» Diesel consumption reduced through reduced rpm concept and AdBlue®