

New from Welte:

THE NEW GENERATION – W230 / W210 / W210K



Absolutely strong in action

With sustainable TIER 4 final technology



Welte

FORST- UND SPEZIALFAHRZEUGE

Dein Stamm-Kapital

Multifunctional when in use perfectly compatible



THE WELTE MODULAR
CONSTRUCTION SYSTEM:

THE WELTE
TEAM PRINCIPLE

Proven tradition, timeless versatility

Flexible and equipped to meet all requirements, thanks to the Welte modular construction system



Up to now, forestry contractors were primarily interested in powerful machines with all-wheel drive, switchable differential locks and a logging crane. Today the focus is also increasingly on other factors: Drive comfort and ergonomics are becoming more important. Also, efficiency and waste as well as sustainability and environmental compatibility of the machines are playing an even greater role. Welte has developed the new 6-cylinder machines in the proven tradition

of modular construction for forestry contractors with very diverse requirements. In order to meet the particular range of tasks in the best way, all variants of the new generation contain the reliable, compact and proven Welte machine technology. On combi machines the quick-change system also offers the forestry contractors the option to change between clambunk and loading basket, with no problems and in a time-efficient manner. The two-part combi basket patented by Welte is particularly suitable where different product ranges as well as energy wood have to be logged – changing from short to long can be performed during the trip in no time at all, without rebuild time.

Our experience is growing, our demand for quality remains – as it has for over 60 years

Welte machines offer the best stability through the low centre of gravity of the crane structure and give the driver the highest level of safety through the cab certified to ROPS, FOPS and OECD. They also fulfil the latest emissions standards for the best environmental performance (with TIER 4 final).



“WE TAKE COMFORT IN KNOWING THAT EVERY SINGLE STEP IN THE PROCESS IS A RELIABLE ONE.”



2 MEN | 1 TEAM | 1 MACHINE



Share experience – Maximise expertise!

So that there are always four eyes and four hands to guide the vehicle through the process reliably, with Welte we always work with a two-man team on one machine. In this way, during its manufacture and testing, every Welte machine benefits from double the experience, from different focuses and perspectives.



Benjamin Preis | Michael Willistein

For Welte it is paramount that the customer can trust their vehicle and its long-lasting quality. With this philosophy in mind we regularly scrutinise all the details in the individual steps of the process. Overall, the good coordination between engineers, foremen, technicians and of course the customer is an important instrument for quality assurance and process optimisation. In this sense, every Welte machine is a product of our understanding of true partnership and jointly implemented solutions.

» Strong and environmentally-friendly in the forest

The tasks in the forest are very varied and cannot always be predicted. In order to also always be properly equipped for difficult applications or special tasks, you need a machine which can adapt to all applications just as quickly and professionally as you can.

6-WHEEL LOGGING AND COMBIMACHINE

W 210 With combi basket



Front blade (for W230 range, tipping device is optional)

Panoramic window with unobstructed rear side panels made of Lexan-Margard – shock-resistant

Oil emergency set (optional)

Robust central joint with tapered roller bearings and central torsion (lockable)

Patented 2-part combi basket

Rear blade which is height and angle adjustable

6-cylinder, water-cooled Deutz motor with TIER 4 final

100% switchable differential locks, front and rear, can be switched separately

Ergonomic, easy-maintenance comfort ergo tilting cab with extensive configurations and two full entry and exit access ways.

Welte double-drum winch (hydraulically driven)

Powerful logging crane (optionally with crane tilt)

Height-adjustable roller support with double roller propeller



W210 – lots of solutions, combined well.

Based on decades of experience with forestry machines for the most varied requirements, the proven Welte modular construction system has many accessory options and a wide range of fitting options. Because in the end your forestry machine must satisfy your individual requirements. So set the W210 up, to how you need.

Special features

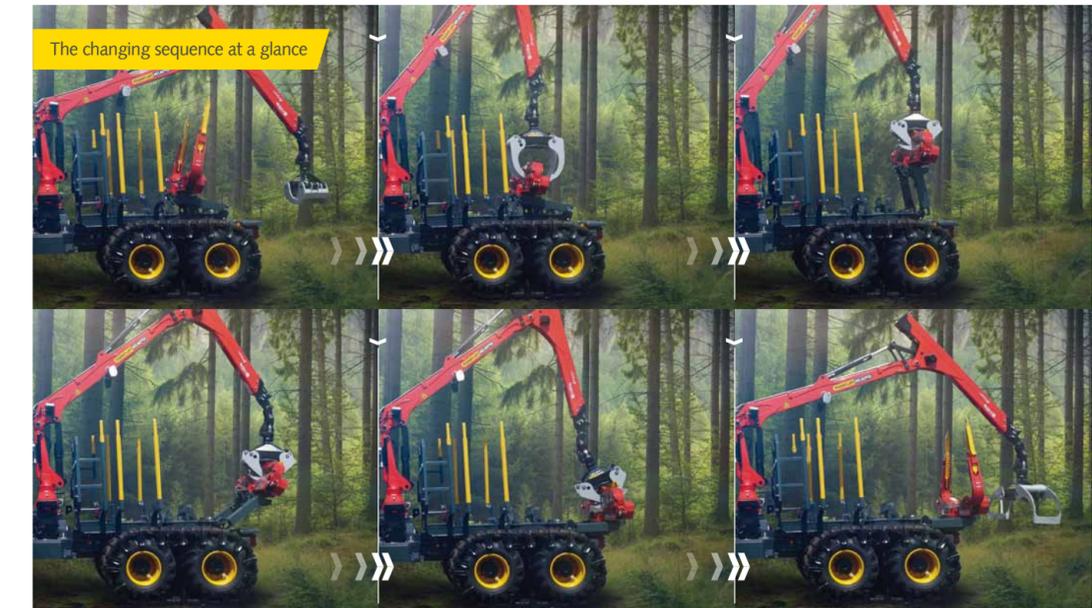


» Combi basket

This system guarantees an even faster change between short and long logs and is particularly suitable for large product ranges. The forwarder mode is ideal for transporting short logs, and with the clambunk mode long logs can be loaded. This means greater performance for you and at the same time, it guarantees you more cubic metres per hour!



Switching between transporting short and long logs by simply pulling up the rotating clamp stake using the grapple of the crane. Lock it electrohydraulically by pushing a button.



The changing sequence at a glance

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6-WHEEL LOGGING AND COMBIMACHINE

W 210 | 210K
Quick-change system

Flexible and eager: the 6-wheel all-rounder.

The W210/W210K represents a new generation in the world of 6-cylinder 6-wheel machines with a TIER 4 final motor and new, ergonomically-optimised panoramic cab with unobstructed rear windscreen to give the perfect view of the work area. In addition it is a rope machine, crane machine, clambank skidder and forwarder, all in one. The machine is also available with a short chassis.

Accessories

- Loading basket (can be extended with W210)
- 2-part Combi basket
- Hinged protective grid
- Clambank, can be changed quickly and rope tensioning device
- Front blade device

Special features



» Quick-change system

Technology from Welte and an innovation which has proved its worth: the quick-change system. It means that it is possible by using the crane to change very quickly between the clambunk and the loading basket – it is easy, safe and flexible.

» Mounting options at the end of the crane

For diverse applications, for example for converting energy wood to heavy wood or short logs, there are different mounting options available, including:

» Harvesting



HARVESTER
Different harvester heads from well-known manufacturers can be used.

» Energy wood grapple



BIOJACK
Easy to operate. Outstanding accumulation, cutting and loading features.

» Quick-change adapter



ROKE
It is possible to change the devices within minutes using the adapter (by Roke). So switching between cutting, logging and clearing does not take long and the work is more effective.

» **Loading basket (optional with revolving rear stake bunk, for the W210 can be removed mechanically from the back)**



» **Quick-change, removable clambunk with rope tension**

Front blade (for W230 range, tipping device is optional)

6-cylinder, water-cooled Deutz motor with TIER 4 final

100% switchable differential locks, front and rear, can be switched separately

Ergonomic, easy-maintenance comfort ergo tilting cab with extensive configurations and two full entry and exit access ways.

Oil emergency set (optional)

Robust central joint with tapered roller bearings and central torsion (lockable)

Welte double-drum winch (hydraulically driven)

Basket with moveable stakes (for the W210 the loading bunk can be enhanced mech.)

Clambunk with rope tension, can be changed quickly

Powerful logging crane (optionally with crane tilt)

Rear blade which is height and angle adjustable

Height-adjustable roller support with double roller propeller

» Strong and environmentally-friendly in the forest

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4-WHEEL LOGGING MACHINE

W 230

Powerful reliability. The 4-wheel multitalent.

The W230 heralds a new era in the world of 6-cylinder skidder machines with a TIER 4 final motor as well as an ergonomically-optimised panoramic cab with unobstructed rear windscreen to give a perfect view of the work area. The skidder has been re-defined and can also be used as a rope machine, crane machine and clambank skidder.

Accessories

- Patented clambunk
- Front blade with tipping device

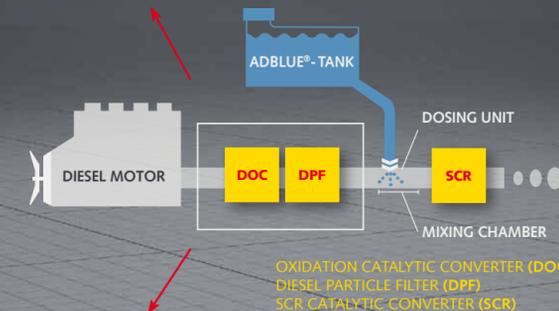
Special features

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

96% less emissions in comparison with TIER 1



Diesel consumption reduced through reduced speed concept and AdBlue®

» Panorama cab

Safety

- ROPS, FOPS, OPS and OECD tested
- Two complete entry and exit access ways
- 10 LED headlights

Overview

- Unobstructed rear windscreen with panoramic window made of Lexan panes
- Operating controls which are adjusted to suit the driver

Comfort

- Air-conditioning
- Radio with USB, Bluetooth with hands-free equipment
- Cool box and much more

Front blade (for W230 range, tipping device is optional)

6-cylinder, water-cooled Deutz motor with TIER 4 final

100% switchable differential locks, front and rear, can be switched separately

Ergonomic, easy-maintenance comfort ergo tilting cab with extensive configurations and two full entry and exit access ways.

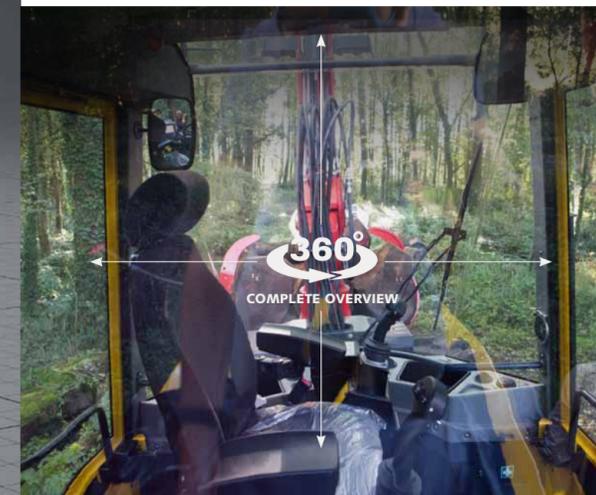
Oil emergency set (optional)

Robust central joint with tapered roller bearings and central torsion (lockable)

Welte double-drum winch (hydraulically driven)

Accessories:
 • 3-point device
 • Shaft drive
 • Set-up device for municipal devices

Powerful Logging crane



360° COMPLETE OVERVIEW

Motor

- Deutz 6-cylinder water-cooled TCD 6.1 L06
- W210 – 180 kW (245 DIN PS) at 2,000 RPM
- W230 – 180 kW (245 DIN PS) at 2,000 RPM
- In accordance with emissions stage Tier 4 final
- Displacement 6,057 cc
- Electronic Engine Management
- Fuel tank approx. 170 litre
- AdBlue® tank 20 Litre

Working hydraulics

- Adjustable regulating pump with 330 l/min. at 2,000 RPM.
- 280 litres of hydraulic oil
- System pressure up to 380 bar, crane operation up to 280 bar
- biodegradable Panolin HLP SYNTH 46 with bypass filter
- Load-sensing hydraulic system
- Main valve block to supply steering and working hydraulics
- Valve blocks for winch drive, rear plate function and crane operation

Frame

- Front frame in stable box profile with integrated oil tank and fuel container as well as AdBlue® tank
- Front part with front blade can be removed
- Rear frame in stable box-section construction, for W210 and W210K in trough design
- Stable central joint with tapered roller bearings
- Torsion on the frame supported by strong slewing ring +/- 20°
- Torsion block through 2 x double-acting hydraulic cylinders with automatic operation, can also be switched on and off using the joystick
- All floor pans on the underside are hinged for maintenance work

Electrical system

- System voltage 24 V
- Battery power 2 x 100 Ah
- Alternator 28 V/100 A

Speed

- Gear 0 – 16 kph
- Gear 0 – max. 40 kph

Power transmission

- Hydrostatic power unit with electronic power control
- 2-gear traction drive with 2 drive motors
- 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

Steering

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

Forestry equipment

- Welte double-drum winch HZM 14 with a tensile force of 14 t or other; without rope
- 2 pressure reduction valves to set tensile force for each rope drum
- Frictional reverse operation
- 2-gear oil engine with Weltronik system (soft start)
- Front blade with lifting height of 1.60 m and lifting power of max. 45 kN
- Stable rear blade, height adjustable, roller support with 2 endless turnable roller propellers and rope guide rollers

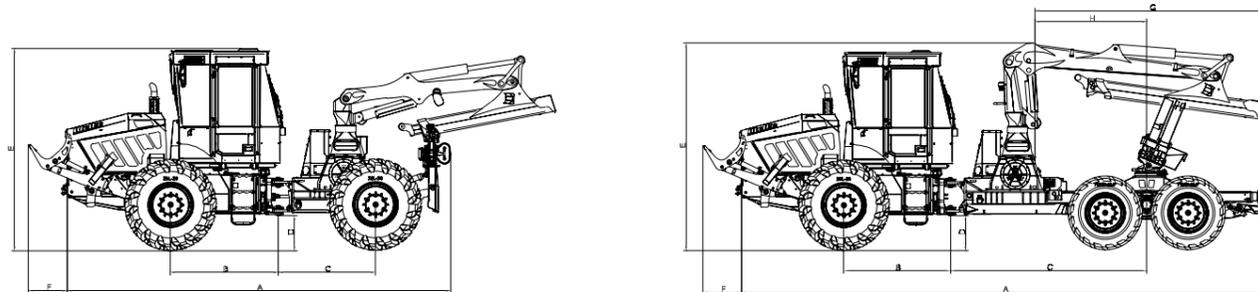
Tyres (standard)

- W210 front – 28L-26 Trelleborg T418
- W210 rear – 600/55-26.5 Nokian
- W230 front – 28L-26 Trelleborg T418
- W230 rear – 28L-26 Trelleborg T418

Other

- Extensive, high-quality tool kit
- User instructions
- Spare parts manual
- Declaration of conformity
- Approval for street use in accordance with StVZO as a tractor/equipment carrier

» Vehicle type measurements



Vehicle type	A	B	C	D	E	F	G	H
W230	6870	1930	1740	630	3633	694	–	–
W210	9524	1930	3550	630	3771	694	4128	2020
W210K	8564	1930	2590	630	3771	694	3168	1060

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

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