

**W 180 / W 230 – W 210**

**Welte**

Forst- und Spezialfahrzeuge

# Welte Standard-Building-Set-System Skidder and Combimachine



*all around  
kompakt*

**Top-Technique  
out of the Welte  
Building-Set-System**

## More solid cubic meter per hour

High performance skidder for the extreme log employment. High traction forces and flexibility are featuring them for the universal use. The central torsion offers a big exceeding ability and is therefore qualified for catchiest terrains. High moving speeds of approx. 40 km/h. The security-cabins and the optimal all-around visibility are offering highest driving comfort.

The robust and powerful Welte-machines are out of a Building-Set-System, which can fulfill all individual demands.

**Ergonomically, easy maintaining  
comfort-tilt-cabin with rich  
equipment variants and  
2 adequate entries and exits**

**Environment-friendly  
economic 6-Cylinder,  
water-cooled  
Deutz-Engine**

**Front blade with or  
without tilt**

**100% switchable  
differential pawls  
front and rear**



At all Welte-Machines one can recognize the fortitudes of more than 50 years experience. Thanks to the modern Building-Set-System you can choose your individual configuration. The Building-Set-System contains:

- robust spacious cabin with an optimal all-around visibility
- rotary seat with control elements
- robust frame construction
- water-cooled Deutz-Engines
- Welmatik-Hydrostat with high traction force, 2-gear-

power divider with axle-interruption and power adjustment as soon as stepless traction drive with under demand switchable working- and drivingmodus or 6-gear ZF power-shift-gear

- in oilbath running fins-brakes
- front blade with or without tilt blade
- driving radio with integrated winch radio
- 100% switchable differential pawls front and rear
- the machine is equivalent to the StVZO; accordant permissions will be handed out!

## 4-Wheel Skidder



- doublewinch with up to 16 t pulling force
- winch lowered in the frame, thus optimal standing ability while crane-operating
- different cranes (e.g. Loglift F101 RT58)
- robust tiltable rear blade with big double express inlet rollers
- optionally with patented clambunk (Klemmbank) rotary mounted on the rear blade
- cable-ejection-mechanism
- 3-point-linkage possible and much more besides



# 6-Wheel Skidder and Combimachine ...

... with fast-changeable-mechanism



Crane e.g.  
Loglift F111 FT85



Stake-cage (Rungenkorb)



Clambunk (Klemmbank)

Bogie-axle with  
axle-interruption

- as 6-Wheel Combimachine
- fast-changeable-mechanism
- clambunk (Klemmbank) up to 1.6 m<sup>2</sup>
- always ready for roping thanks the in the high adjustable pulley carrier
- 3-axle machine
- bogie-axle for highest catchiest terrain
- tire saving thanks axle-interruption in the back
- optimal standing ability through the deep emphasis of the crane built-up



## ... or with combi-korb



At the push of the button foldable from the driver's seat ...



... and expandable



a pitchable rear blade

- 3 machines in one, W210
- short or long wheelbase
- stake cage (Rungenkorb) with fast-changeable-mechanism
- for relocation always keep the stake cage (Rungenkorb) an the clambunk (Klemmbank) with one
- in spite of rear blade very high talus-angle
- combi-korb
- removable front grid with one pair of stakes
- last stake is turnable

- clamp-stake is in the twinkling of an eye able to fold to the front and useable as a clambunk (Klemmbank)
- no getting out and converting
- as clambunk (Klemmbank) stored on the bogie-axle

**Top-Technique  
out of the Welte  
Building-Set-System**

## Technical Data

### 1. Measures and Weights

- Length W180/W230 6,260 mm, W210 8,030 mm
- Broadness 2,400 – 2,700 mm
- Height 3,030 mm depending on the tires
- Weight depending on the configuration W180/W230 approx. 9,500 kg, W210 approx. 16,000 kg
- Clearance underneath the gear case up to 620 mm
- Turn radius W180/W230 approx. 2.7m, W210 approx. 5m

### 2. Engine

- Deutz 6-Cylinder water-cooled Turbo-Engine (TCD)
- Displacement 7,150 cm<sup>3</sup>
- W180 – 134 kW (183 HP) at 2,350 U/min
- W230 – 173 kW (235 HP) at 2,300 U/min
- W210 – 173 kW (235 HP) at 2,300 U/min
- Electronical Engine Regulator EMR
- Tank approx. 150 l

### 3. Hydraulic system

- Variable pump flow with 270 l/min
- System pressure up to 350 bar
- Driving pump 105 cm<sup>3</sup>/U
- Oiltank approx. 230 l

### 4. Power transmission

- hydrostatic traction drive electronically controlled
- W<sup>o</sup> 2-gear power-divider with axle-interruption rear
- 6-gear ZF power-shift-gear
- front and rear axles are special axles with planet driving heads and in oil bath running fins-brakes
- Differential pawls 100%, each axle separately switchable

### 5. Speed

- speed 0 - 40 km/h
- 2-circle-braking-system

### 6. Electrical system

- Wel-Can with memory for 5 drivers, all important information available over the modern display
- Electric tension 24 V
- Battery capacity 2 x 92 Ah

### 7. Steering

- frame bending steering with 2 dual operating cylinder
- for driving on the street steering Orbitrol with emergency steering mechanism

- *serial equipment*
- *optional equipment*

W<sup>o</sup> Welmatik

### 8. Cabin

- spaciouly tiltable cabin with Lexan-Margard-Windows in the backwards danger zone
- rotary seat with pedals – air suspended
- all important control functions mounted on the driver's seat
- 8 working spots, therefrom 4 x twinpower in the back
- both-sided entry and exit
- sliding windows in the doors
- skylight with 3 different positions
- cabins ROPS, FOPS and OECD certificated

### 9. Tires

- Serial tires 23.1-26; W210 in the back 600/55-26.5
- Optionally also other tires possible

### 10. Frame

- front frame of solid box-section with integrated oil tank
- solid middle-joint with adjustable taper roller bearrings
- frame torsion mounted with solid roller bearings and 2 inside laying and double acting support cylinder
- rear frame drawn-out for the in the frame sanked acceptance of the winch
- Lifting-cylinder at the front frame with integrated cabin-acceptance, oscillation-absorbed through hydraulic sockets

### 11. Crane e.g.

- W180 / W230 Loglift F101 RT72
- W210 Loglift F111 FT85

### 12. W210 Fast-Changeabe-Mechanism

- stake-cage (Rungenkorb) with extendable stakes in the back
- Combi-Korb with turnable stake and to the front fold away clamp-stake (Klemmrunge) (patented)
- clambunk (Klemmbank) with or without wire-cocking-mechanism

### 13. Forest-equipment

- Front blade also with tilt-cylinder for a height of at least 1,700 mm
- Welte-Doublewinch with up to 16 t and 100 m rope with Ø 12 mm
- rear blade with double-roll-propeller endless turnable and pulley carrier adjustable in the height
- W210 separately adjustable pulley carrier

### 14. Components & Equipment

- In our prospect „Components & Equipment“ you can inform yourself over the individual options of our Building-Set-System.

