

**Technical data                    HW 90B/10 BF4L 2011 H123**

Valid from Serial-No. 0862

16.01.2008

**Machine dimensions**

Total length	4890 mm
Wheel base	2830 mm
Total width with cabin	2660 mm
Total width with edge press. equip.	2660 mm
Max. working width	2020 mm
Total height without cab (steer wh.)	2400 mm
Total height with cabin	3185 mm
Total height with ROPS	3220 mm
Ground clearance, centre	385 mm
Turning radius, inside	2365 mm
Turning radius, outside	4365 mm
Center of gravity	970 mm

**Drum dimensions**

Drums, number	3
Drum type, front	smooth/divided
Drum type, rear	smooth/nondivided
Drum width, front	1100 mm
Drum width, rear	610 mm
Drum diameter, front	1250 mm
Drum diameter, rear	1550 mm
Shell thickness, front	27 mm
Shell thickness, rear	27 mm

**Weights**

Basic weight without cab	10075 kg
Basic weight w. ROPS-cab	10335 kg
Basic weight without cab, with ROPS	10355 kg
Cab weight	260 kg
ROPS weight	280 kg
Operating weight	10670 kg
Operating weight with ROPS	10690 kg
Maximum weight	14000 kg
Axle load, front/rear	4090/6580 kg
Static linear load, front/rear	37,2/53,9 kg/cm
Static surface load, front/rear	0,30/0,35 kg/cm <sup>2</sup>
Compaction force, front	40 kN
Compaction force, rear	65 kN

**Diesel engine**

Manufacturer	DEUTZ
Type	BF4L 2011
Power rat. DIN/ISO 3046 IFN kW/PS/rpm	53,5/72,8/2500
Power rating SAE J1349, kW/HP/rpm	53,5/71,7/2500
Number of cylinders	4
Cooling, type	integrated oil cooling
Displacement	3108 cm <sup>3</sup>
Bore/stroke	94/112 mm/mm
Torque max./speed	241/1600 Nm/UpM
Fuel consumption, 100 % eng. output	15,0 l/h
Fuel consumption, average	6,8 l/h
Operating hours per tank filling	19 Std.
Engine oil consumption, average	0,03 l/h
Operating voltage	12 V
Alternator, Hamm No.	01301500
Alternator, capacity	14/80 V/A
Starting motor, Hamm No.	01285858
Starting motor, capacity	12/2300 V/W
Battery, Hamm No.	00351857

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Battery, capacity .....12/135 V/Ah

**Drive**

Hydrostatic drive, front/rear .....-/planetary gear  
 Speed, infinitely variable ..... 0-10,2 km/h  
 Climbing ability, with/no ballast ..... 25/40 %  
 Theor. climb abil., with/no ballast ..... 37/42 %  
 Static lateral inclination ..... 46 Grad  
 Permissible longitudinal tilt, dies ..... 30 Grad  
 Permissible lateral inclination, di ..... 30 Grad  
 max. perm. ambient temp. by full load ..... Grad  
 Hydraulic pump, Hamm No. .... 01285750  
 Hydraulic motor, rear, Hamm No. .... 00351598  
 Wheel gear, rear, Hamm No. .... 01292072

**Steering**

Steering, type ..... Pivot steering, front  
 Steering, actuation ..... hydrostatic, steer. wheel  
 Steering unit, hydr., Hamm No. .... 01239872  
 Hydraulic pump, Hamm No. .... 01205773  
 Steering lock +/- ..... 40 Grad  
 Oscillation angle +/- ..... 8 Grad

**Tank capacity/Filling amount**

Engine oil-capacity (oil change) ..... 10,0 Ltr.  
 Engine oil grade ..... API CG-4/CH-4, SAE 15W40  
 Fuel tank, capacity ..... 140 Ltr.  
 Fuel tank, material ..... Sheet steel  
 Hydr. reserv., capac. (oil change) ..... 60 Ltr.  
 Hydraulic oil grade ..... HLP-VG46  
 Hydraulic oil reservoir, material ..... Sheet steel  
 Wheel gear, rear, Hamm No. .... 01292072 Ltr.  
 Planetary gear/wheel gear ..... 2x 2,8 Ltr.  
 Gear oil grade ..... API GL-5 SAE 85W90  
 Water tank, capacity ..... 400 Ltr.  
 Water tank, material ..... Sheet steel

**Brake system**

Service brake, mode of action ..... hydrostatic  
 Service brake, application ..... Drive lever  
 Parking brake, mode of action ..... Spring-loaded/mechanical  
 Parking brake, application ..... electr. a. autom.  
 Emergency brake, mode of action ..... hydr./mech.  
 Emergency brake, application ..... Emergency stop

**Sprinkler system**

Water sprinkler, type ..... Pressure  
 Pump, water sprinkler, type ..... Membrane pump  
 Actuation, sprinkling ..... interval/manual

**Additional load**

Water ballast per axle, front ..... 740 Ltr.  
 Water ballast per axle, rear ..... 1140 Ltr.

**Service parts**

Engine oil filter, Hamm No. .... 00251194  
 Fuel filter, Hamm No. .... 00234567  
 Fuel prefilter, Hamm No. .... 2044633  
 Air filter, type ..... dry + prefractionator  
 Air filter cartridge, Hamm No. .... 01209574  
 Safety filter cartridge, Hamm No. .... 01209604

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Hydr oil filter, steer., Hamm No.	00383279
Water filter insert, Hamm No.	00280283
V-belt, compressor, Hamm No.	01225812
V-belt, alternator, Hamm No.	00313181

**Operating data**

Output*, 1 pass/2 km/h	3000 m <sup>2</sup> /h
Output*, 1 pass/5 km/h	7500 m <sup>2</sup> /h
Output*, 1 pass/8 km/h	12100 m <sup>2</sup> /h
Output*, 3 pass./5 km/h	2500 m <sup>2</sup> /h
Output*, 1pass/2km/h 20cm	600 m <sup>3</sup> /h
Output*, 1pass/2km/h 30cm	910 m <sup>3</sup> /h
Output*, 1pass/2km/h 40cm	1210 m <sup>3</sup> /h
Output*, 1pass/2km/h 50cm	1510 m <sup>3</sup> /h
Output*, 1pass/2km/h 60cm	1810 m <sup>3</sup> /h
* =work.factor=0.83/work.width=90%	

**Sound level**

Acoustic pressure LP(A) cabin, max.	70,1 db(A)
Acoustic power LW(A), measured.	99,5 dB(A)/1p
Acoustic power LW(A), sticker	102 dB(A)/1p
Acoustic power LW(A), lim. val.	104,0 dB(A)/1p

**Measuring data diesel engine**

Idling speed/rated speed/max. speed	900/2500/2625 U/Min
Operating temperature from-to	80 - 110 Grad
Maximum temperature	130 Grad

**Measuring data hydraulic**

Filling circuit pressure	25 bar
High-pressure limit	420 bar
Angle of adjusting lever from-to	0 - 35 Grad
Leakage press. pump max. warm/cold	0,5/1,5 bar
Leakage oil motor rear maximum	11,2 Ltr./Min
Leak.press. motor re max. warm/cold	bar
Operating temp. hydr. oil tank max	Grad
Operating temperature pump max.	Grad
Operating temper. motor rear max.	Grad

**Measuring data steering hydraulic**

Pressure relief steering unit	175 bar
Pressure relief shock valves	240 bar
Working pressure steering*	bar
* = on dry asph. surface in neutral	

**Measuring data brake**

Service brake stopping distance	m
Parking brake blocks in 2. gear	yes J/N
Emergency stop/stopping distance	m
Opening pressure parking brake min.	bar