



Technical Data



Digging Bucket			
round, cutter 30 mm x 200 mm, base of bucket 8 mm, side section 8 mm, Hardox 400			
	Cutting width	Weight	Capacity
Digging bucket	400 mm	202 kg	162 litres
Digging bucket	600 mm	257 kg	278 litres
Digging bucket	800 mm	311 kg	400 litres
Digging bucket	1000 mm	365 kg	525 litres

Grading Bucket			
Cutter 30 mm x 250 mm, base of bucket 12 mm, Hardox 400			
	Cutting width	Weight	Capacity
Grading bucket rigid	1250 mm	345 kg	450 litres
Grading bucket rigid	1500 mm	437 kg	578 litres
Hydraulic swivel grading bucket	1380 mm	560 kg	673 litres

Grabs			
	Cutting width	Weight	Opening width
Universal grab UG 12	570 mm	693 kg	1830 mm
Sorting and demolition grab AG 12	670 mm	688 kg	1790 mm

Hydraulic Breaker			
	Weight	Tool diameter	Energy
Hydr. Breaker RHB309	530 kg	85 mm	1400 Joules
Hydr. Breaker RHB 313	974 kg	105 mm	2500 Joules

Other accessories			
Hydr. Quickchanger A111			
Swivel head „Powertilt“ (No. 9)			
Swivel head „Powertilt“ with hydr. quickchanger A111			
Tiltrotator with integrated quickchanger			

Further accessories on demand

Engine

John Deere 4-cylinder diesel engine. Type 4045HF275. Turbo-charged with charge air cooling. Direct injection using common rail technology. Displacement 4500 ccm/275 cm³/inch., maximum capacity 104 kW (140 hp), governed to 2000 rpm: 99 kW (133 hp). Gross power guaranteed at SAE J1995 and ISO 3046. In accordance with exhaust standard 9768 (TIER 3). Engine control unit (ECU) compensates engine pressure. Engine vibration-free on hydraulic bearings.

Hydraulic system

Latest LIFD load sensing hydraulic components (load-independent flow division) with electronic load limit sensing control. Mechanical pump power transfer gear has two performance-regulated tilting plate axial piston pumps as standard equipment: one for working hydraulics (P1) and one for the driving hydraulics (P2). A gear pump (P3) powers the fan drive. „Powerline“ An independent performance-regulated tilting plate axial piston pump (P4) with prioritised power supply can also be fitted as an option (single action for operating powerful attachments); three volume settings can be programmed.

P1: 220 l/min. / 58 US/gall. (max. 280 bar)
 P2: 160 l/min. / 42 US/gall. (max. 400 bar)
 P3: 36 l/min. / 9,5 US/gall.
 P4: 170 l/min. / 45 US/gall. (max. 350 bar)

Hydraulic connections

Control circuit 1
via foot pedal (proportional - double action) up to 160 l/min. / 42 US/gall.
Control circuit 2
via foot joystick (digital - double action) up to 80 l/min. / 21 US/gall.
Control circuit 3 (optional)
via foot joystick (digital - double action) up to 40 l/min. / 10.5 US/gall.
Control circuit 4 (optional)
for hydr. quick-change system (digital - double action)
„Powerline“ (optional)
via joystick (digital - single action) = three volume settings individually programmable up to 170 l/min. / 45 US/gall.
Winch connection (optional)
via foot pedal (proportional - double action) = 100 l/min. / 26 US/gall.
Leak oil tube (optional)

Load limit sensing control

Electronic power control system for faster, more sensitive and more constant interaction between engine and hydraulics. „Smooth mode“ operating mode for finer and slower movement with unlimited power. Car-style driving for comfort on public roads.

Drive

Two-phase traction drive with four identical large wheels. Closed circle with separate performance-regulated axial piston pump (160 l/min.). Drive provided by hydrostatic wheel-hub drives with hydr. differential lock and automatic hand-brake. Speed: first operating phase to 4 km/h, second operating phase to 10 km/h. Speeds vary depending on tyres fitted. The axle steering knuckle allows very narrow radii to be driven; smallest turning circle is 12 meters.

„H-drive system“

Increased efficiency from driving system thanks to intelligent controller with power distribution.

Electrical equipment

24 volts, battery 2 x 95 Ah, 7.2 kW starter engine .
 45 amp alternator = electrical wattage rating 1'080 watts.
 Option 100 amp alternator = electrical wattage rating 2'400 watts.

Chassis control

Fast, parallel and independent chassis functions using CAN BUS system. IP69 components guarantee continuous operation in water.

Swing

The swing assembly is operated using torque control. An axial piston motor with an automatic multi-disc brake runs using planetary gearing stop on the inner gear teeth of the enlarged slewing gear. Slew range: 360° (endless), slewing speed: up to 10 rpm.

Safety cab

Comfortable and spacious cab with all-round view and sprung seat, low-vibration on rubber mounts, roll prevention, ROPS test according to DIN ISO 3471; Optional FOPS roof. The cab can be hydraulically tilted. Large, clear LCD display, ergonomically designed with display of numerous indicators, such as engine rpm, operating hours counter and clock, fuel gauge, temperature, battery level, filter check, service indicators, control and diagnostic functions, etc.

Controls

Two ergonomic multi-joysticks, each with max. 25 functions. Logical design for ease of use of chassis and bucket functions. Foot pedals for actuation of boom, drive, hydraulic attachment and winch. Height and angle of joysticks and foot pedals can be adjusted to suit the driver.

Hydraulic cylinders

The hydraulic cylinders on the boom have end-position damping. All hydraulic cylinders on the chassis are equipped with ball joints and have double safety-check valves (hose fracture protection) so that the machine maintains its position in the event of a fault occurring.

Options

Equipment for the hoist attachment; biodegradable hydraulic fluid; air conditioning system; central lubrication system; customer choice of paint colour; street equipment; winch connection; control circuit for hydr. quick-change system; special tyres; leak oil tube; soot particle filter; manual lubrication system for boom; customer-specific requirements

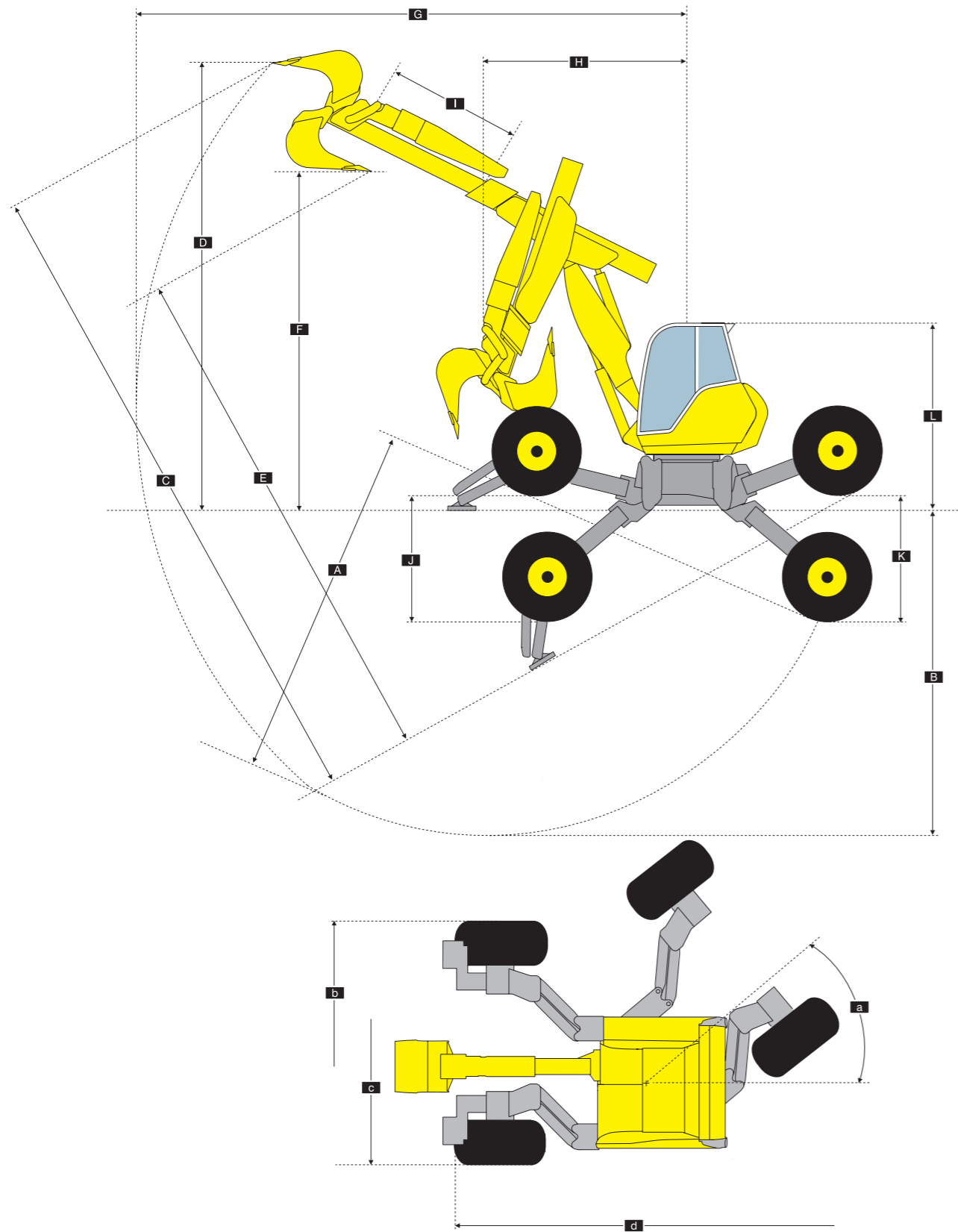
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Technische Änderungen vorbehalten.
 mba111-0207.pmd





Measurements Menzi Menzi Muck A111

			T2	T1.8
A	Max. Excavation depth (with chassis adjustment)	mm	5690	5930
B	Max. Excavation depth (chassis horizontally)	mm	5250	5490
C	Max. Excavation height (with chassis adjustment)	mm	10120	10280
D	Max. Excavation height (chassis horizontally)	mm	7050	7080
E	Max. Discharge height (with chassis adjustment)	mm	7570	7710
F	Max. Discharge height (chassis horizontally)	mm	5010	5040
G	Max. Jib Range	mm	8570	8790
H	Smallest swivelling radius	mm	2990	2980
I	Dipper length	mm	1960	1800
J	Positioning range front drive	mm	1860	1860
K	Positioning range hub drive	mm	1860	1860
L	Transport height	mm	2760	2760
a	Minimum width front / hub drive (transport width)	mm	2450	2450
b	Max. positioning width front / hub drive	mm	4800	4800
c	Steering angle	degree	40	40
d	Chassis length	mm	5610	5610

Measurements depend on type of tyre and accessories.

Basic data Menzi Muck A111

John Deere 4-cylinder engine	kW / HP	104 / 140
governed to	kW / HP	99 / 133
@	rpm	2'000
Displacement	ccm	4'500
Electrical system	V	24
Battery capacity	Ah	2x 95
Starter	kW	7.2
Maintenance intervals	h	500
Diesel fuel tank capacity (Operating tank / Reserve tank)	litres	330 (130/200)
Hydraulic system capacity	litres	200
Swivelling speed max.	rpm	10
Swivel force	Nm	46'000
Operation across slope	%	70
Operation along slope	%	100
Ripping force T1,8	N	69'784
Ripping force T2	N	76'762
Breakout force	N	73'600
Weight without accessories	kg	11'500
Speed (dual stage drive)	km/h	up to 10,0
Turning diameter min.	mm	12'000
Standard forestry tyre 600/50-22.5, 16 pr, Steel insertions	mm	1'100 x 600
Optional forestry tyre 600/55-26.5, 16 pr, Steel insertions	mm	1'350 x 600