

Digging Bucket Hardox

round, cutter 30 mm x 200 mm, base of bucket 6 mm, side section 8 mm

		Cutting width	Weight	Capacity
250209	Digging bucket	400 mm	209 kg	142 litres
250208	Digging bucket	600 mm	263 kg	247 litres
250207	Digging bucket	800 mm	314 kg	356 litres
250200	Digging bucket	1000 mm	366 kg	467 litres
219992	Bucket pin with Ø 55 lock			

Grading Bucket Hardox

Cutter 30 mm x 200 mm, base of bucket 10 mm

		Cutting width	Weight	Capacity
250581	Grading bucket rigid	1250 mm	345 kg	450 litres
219441	Hydraulic swivel grading bucket including hose set	1380 mm	560 kg	673 litres

Hydr. quick-change system

EA	Quick-change system including hose set and 2 pins
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Swivel head Powertilt

252500	Powertilt PTA-8 including hose set and 2 pins
EA	Powertilt PTA-8 with hydr. quick-change system including hose set and 2 pins

Pads

250504	Steel pads 4 points
250008	Steel pads 6 points
250170	Rubber pads with pin

Grab

		Cutting width	Weight	Capacity
EA	Universal grab UG12 including hose set and attachment plate (without pin)	570 mm	693 kg	200 litres

Hydraulic Breaker

		Impact rate	Weight	Tool diameter
EA	Hydr. Breaker RHB308 including hose set and attachment plate (without pin)	420 - 820	530 kg	85 mm

Engine

John Deere 4-cylinder diesel engine, type 4045TF285, exhaust emission stage 3a in accordance with standard 97/68. Cylinder capacity 4500 ccm, adjusted to 2000 rpm: 89 kW (120 hp) in accordance with SAE J1995/ISO 3046. Turbo-charged with charge air cooling. Direct injection using common rail technology. Engine control unit (ECU) compensates for engine pressure. Engine vibration-free on hydraulic bearings.

Hydraulic system

Linde LSC load sensing hydraulic components (load-independent flow division) with electronic load limit sensing control. Two performance-regulated tilting plate axial piston pumps, one for the power hydraulics (P1) and one for the drive hydraulics (P2). A gear pump (P3) supplies the electro-hydraulically adjusted fan drive. P1 = 215 l/min. (max. 280 bar) P2 = 110 l/min. (max. 400 bar) P3 = 36 l/min.

Hydraulic connections

Control circuit 1

via foot pedal (proportional - double action) up to 160 l/min.

Control circuit 2

via joystick (digital - double action) up to 80 l/min.

Control circuit 3 (optional)

for hydraulic quick-change system (digital - double action)

Cable winch connection (optional)

via foot pedal (proportional - double action) up to 100 l/min.

Return line

for hydraulic hammer (standard)

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. „Power mode“ operating mode: pressure increase by 20 bar for brief power increase.

Drive

Closed circle with separate performance-regulated axial piston pump (110 l/min.). Drive provided by hydrostatic wheel-hub drives with hydr. differential lock and automatic hand-brake.

Standard: single-stage two-wheel drive mode, speed up to 8 km/h.

Optional: dual-stage fast version: 1st stage up to 5.5 km/h; 2nd stage up to 12.5 km/h; Speeds vary depending on tyres fitted. Road speed set using potentiometer.

Chassis control

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

Electrical system

24 volt, 95 Ah battery, 45 amp alternator, 7.2 kW starter. Electric output 1080 watt.

Swing

Swing assembly with torque control. The axial piston motor with automatic multi-disc brake operates via the planetary gear train on the internal spline of the double-rowslewing gear. Movement area 360° endless, slewing speed: up to 10 rpm.

Safety cab/driving area

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.

Model changes and innovations coming soon

- Engine output: + 15 kW (20 hp)
- John Deere engine with common rail (exhaust emission stage 3a)
- New chassis control with quicker support functions, independently and simultaneously operable
- Mechanical pump distribution gear with speed ratios
- Increased Swivel force of 11 %
- Working pump: delivery rate: 215 l/min. (+ 15 l/min.)
- Drive pump: delivery rate: 110 l/min. (+ 10 l/min.)
- Electronic load limit sensing control
- Increased battery capacity (+ 40 Ah)
- Newly designed and larger cooling system
- High-quality forestry tyres as standard

New model variant:

- Dual-Stage fast version up to 12,5 km/h / 7.8 mph with increased traction force of 18%

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 hydr. cylinders on the boom have end-position damping. All hydr. cylinders on the bogie have ball joints and double check valves (hose break security), so the position of the machine does not change if a fault occurs.

Optional equipment

Equipment for the hoist attachment; hydraulically telescoping feet; biodegradable hydraulic fluid; air conditioning system; central lubrication system; customer choice of paint colour; street equipment; fast version; hydraulic freewheeling switch; winch connection (chassis); 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.
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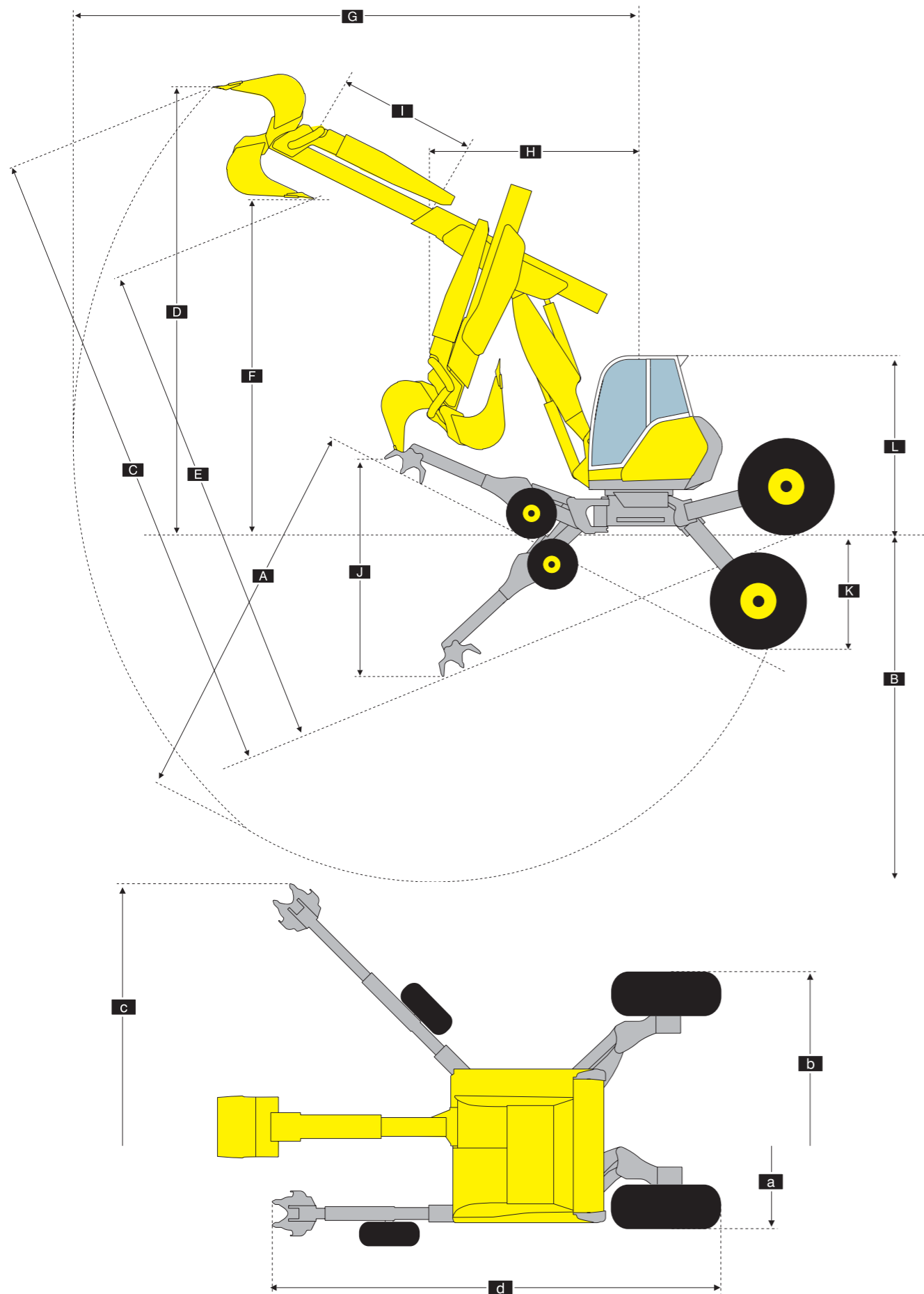


Table of Dimensions Menzi Muck A81

A	Excavation depth max.(with chassis adjustment)	inch / mm	18'6" / 5650
B	Excavation depth max. (chassis horizontally)	inch / mm	17'1" / 5220
C	Excavation height max. (with chassis adjustment)	inch / mm	30'8" / 9350
D	Excavation height max. (chassis horizontally)	inch / mm	22'6" / 6860
E	Discharge height max. (with chassis adjustment)	inch / mm	22'4" / 6810
F	Discharge height max. (chassis horizontally)	inch / mm	15'8" / 4780
G	Jib Range max.	inch / mm	26'10" / 8180
H	Smallest swivelling radius	inch / mm	9'1" / 2770
I	Dipper lenght	inch / mm	5'11" / 1800
J	Positioning range stabilizers	inch / mm	9'1" / 2780
K	Positioning range hub drive	inch / mm	5'10" / 1790
L	Transport height	inch / mm	8'3" / 2530
a	Minimum width hub drive (transport width)	inch / mm	6'9" / 2070
b	Max. positioning width hub drive	inch / mm	14' / 4290
c	Max. positioning width stabilizers	inch / mm	19'6" / 5950
d	Chassis length	inch / mm	17'7" / 5360

Basic Data Menzi Muck A81

John Deere 4-cylindre engine	kW / hp	89 / 120
Max. engine speed governed to	rpm	2'000
Displacement	c/inch / cm	275 / 4'500
Starter	kW	7.2
Diesel fuel tank capacity (Operating tank / chassis tank)	US-gall. / Liter	87.2 (34.3 / 52.9) / 330 (130/200)
Hydraulic system capacity	US-gall. / litre	52.9 / 200
Max. swivelling speed	rpm	10
Swivel force	lbf / Nm	29502 / 40'000
Operation across slope	%	70
Operation along slope	%	100
Ripping force	lbf / N	11690 / 52000
Breakout force	lbf / N	14837 / 66000
Weight without bucket	lb / kg	18297 / 8300
Speed (single stage)	mph / km/h	up to max. 5 / 8
Speed (dual stage)	mph / km/h	up to max. 7,8 / 12,5
Turning circle diameter less than	ft / m	59 / 18
Standard front tyre 12.5/60-15	inch / mm	2'4" x 11" / 720x275
Optional front tyre size 3.00-15	inch / mm	2'7" x 1' / 800 x300
Standard tyre size hub drive 500/60-22.5	inch / mm	3'8" x 1'7" / 1100x500
Optional tyre size hub drive 600/50-22.5	inch / mm	3'8" x 2' / 1100x600

Measurements depend on type of tyre and accessories.