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**muck**



## **The king's class of mobile Allterrain-Excavators.**

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Menzi Muck A61 mobile  
Menzi Muck A61 4x4 plus

# 20% more efficiency. The Menzi Muck A61.

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Since the debut, the Menzi Muck A61 has passed through various evolutionary stages. New technologies, ecological and economic aspects, customer suggestions and practical experience have been packaged in a new version.

By replacing the engine with the new Kubota Turbo engine, the output could be enhanced by 20%. Newly mounted are 2 separate hydraulic pumps for the working- and the drive hydraulic.

The Menzi Muck A61 as leader in its weight class will convince you with a superior performance in relation to its weight.

The two different model options base upon the same upper structure. Whereas the under carriage varies between several options depending on the application area. The modular construction system allows a customized solution for every application.

Due to the improved performance, the increased mobility and the powerful drive technology the conventional operational areas in steep slopes could have been extended to various interesting work areas in the lowlands.



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# The basic information of the Menzi Muck A61.

## 1 Menzi Muck A61 mobile

Hydrostatic two-wheel drive via the large wheels.  
Two dismountable fully-floating axles with bogie wheels.  
Hydraulic telescopic stabilizers.  
Optional: rear steering.

## 2 Menzi Muck A61 4x4 plus

Hydrostatic all-wheel drive.  
Variable parallel track widths.  
Hydraulic telescopic stabilizers.  
Optional: Hydraulic lifting axle for raising the small wheels.  
Optional: rear steering.



### Engine

Brand	<b>Kubota</b>
No.	<b>V3800 TDI</b>
Type	<b>4-cylinder Turbo</b>
Emission tier	<b>3a (TIER 3)</b>
Regulated output	<b>74 kW / 99 PS</b>
Displacement	<b>3'769 ccm</b>
Maximal rpm	<b>2'400 rpm</b>
Maintenance intervals	<b>500 h</b>
Injection	<b>Commonrail</b>

### Electric system

Voltage	<b>24 Volt</b>
Batteries	<b>2 dry batteries</b>
Capacity	<b>2 x 70 Ah</b>
Starter	<b>3.2 kW</b>
Alternator	<b>35 Amp</b>
Electrical output	<b>840 Watt</b>

### Tank fuel capacities

Operating tank (diesel)	<b>130 litres</b> <b>34.3 US./gall.</b>
Reserve tank (diesel)	<b>200 litres</b> <b>52.8 US./gall.</b>
Hydraulic system capacity	<b>160 litres</b> <b>42.3 US./gall.</b>

### Forces

Ripping Force	<b>41'000 N</b>
Breakout Force	<b>53'500 N</b>
Max. Lifting force @ 3 m	<b>4'600 kg</b> <b>10'141 lb</b>
Max. Lifting force @ 4.5 m	<b>2'700 kg</b> <b>5'952 lb</b>
Max. Lifting force @ 6 m	<b>1'500 kg</b> <b>3'307 lb</b>

Max. lifting forces with boom and shaft cylinder.

### Swing

Swivel speed	<b>up to 10 rpm</b>
Swivel force	<b>36'000 Nm</b>

### Weights

Menzi Muck A61 mobile	<b>&gt; 7'400 kg</b> <b>&gt; 16'314 lb</b>
Menzi Muck A61 4x4 plus	<b>&gt; 8'800 kg</b> <b>19'400 lb</b>

Empty weight without tool. Varies depending on optional equipment.



# Economic. Powerful. Efficient.

## The technology of the Menzi Muck A61.

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### Structural master performance.

As market leader and inventor of the mobile multi-purpose excavator technology, great importance was attached to the structural calculations. Long-standing practical experience provided us with the correct design for the structural FEM calculations.

### Undercarriage control.

The large number of hydraulic functions in the undercarriage are controlled by the CAN bus system. This guarantees an independent and fast handling of the hydraulic stabilizers. No double functions. All components arranged in the undercarriage are suitable for continuous operation in water.

### Safety cab

Comfortable and spacious cab with all-round view and suspension seat, low-vibration on rubber mounts, roll prevention, ROPS test according to DIN ISO 3471. Efficient heating with high defrost capacity. Large storage shelves and document compartments. Cab can be tilted hydraulically.

Optional: air condition, FOPS roof, comfort-seat with seat-heating,



### Controls

Two ergonomic multi-joysticks, each with max. 25 functions. Logical design for ease of use of chassis and excavator functions. No double functions. Foot pedals for actuation of telescope, drive, hydraulic attachment and winch. Operator's seat, joysticks and foot pedals can be adjusted to suit to the operator.

### Swing

An axial piston engine with automatic multi-disc brake acts on the internal gears of the double-row slewing ring via a planetary gear. Hardened tooth profiles. A proportional, demand-driven torque control is applied to regulate the turning force via the joystick. Swing range 360° endless. Swing speed up to 10 rpm. Swing torque 36'000 Nm.

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### The Kubota engine.

Brand	Kubota
Type	4-cylinder Turbo
Denomination	V3800 TDI
Maximum output	74 kW / 99 PS
Displacement	3'769 ccm
governed to	2'400 min-1
Maintenance intervals	500 h

### Hydraulics

Optimised hydraulic tuning has been a Menzi tradition. The harmonious operating cycle is geared towards smooth and optimised performance.

Socially-responsible load sensing hydraulics from Rexroth (LUDV - load-independent flow distribution) works with two output-controlled swash plate axial piston pumps, one for the working hydraulics (170 l/min. / 44.9 US/gall. up to 280 bar) and one for the driving hydraulics (130 l/min / 34.3 US/gall. up to 400 bar).

### Cooling with more efficiency

The suctioning fan system is generously dimensioned for superior efficiency has features cooling reserves. Optimised air flow through two coolers arranged side by side. The cooling elements for water, hydraulic oil and charge air are size-optimised. Energy saving progressive control of the hydraulic fan motor.

### 99 PS Power

Power is supplied by the reliable technology of Kubota, the long-standing engine partner with a worldwide service network. The directly-injected 4-cylinder turbo diesel engine satisfies the requirements for emission tier 3a in accordance with Standard 97/68 (TIER 3).

The main diesel tank has a capacity of 130 liters / 34 US/gall.. The reserve tank in the chassis body (200 liters / 53 US/gall.) and the electric diesel filling pump are standard.

### Hydraulic Connections

Control circuit 1 (standard)  
via foot pedal up to 120 l/min. /  
32 US/gall., proportional - double action

Control circuit 2 (standard)  
via joystick up to 50 l/min. / 13 US/gall.  
digital - double action

Control circuit 3 (option)  
for hydr. quick changer, digital - double  
action

Winch connection (option)  
via foot pedal up to 100 l/min. /  
27 US/gall., proportional - double action

Return pipe (standard)  
for hydraulic hammer

Leak oil line (option)



# The model versions.

## The Menzi Muck A61 Mobile.

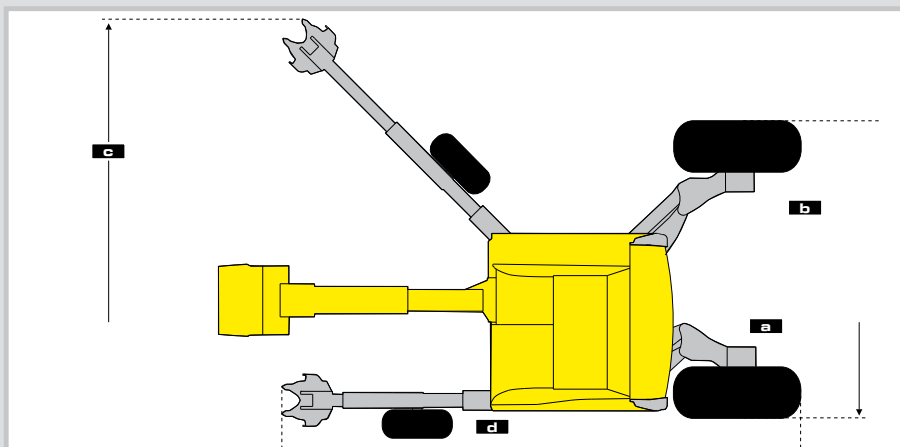
### The original in its toughest form. For use on extreme hill slopes.

On the „Mobile“ version, two large wheels are hydrostatically driven. The two smaller bogie wheels, laterally mounted at the stabilizers, can be dismounted. Telescopic stabilizer with a rugged mountain claw system guarantees a safe stand in every area. Two different setting position of the mountain claw will increase the stability even more. The street rubber pads can be mounted without removing the steel mountain claws.

#### Drive unit

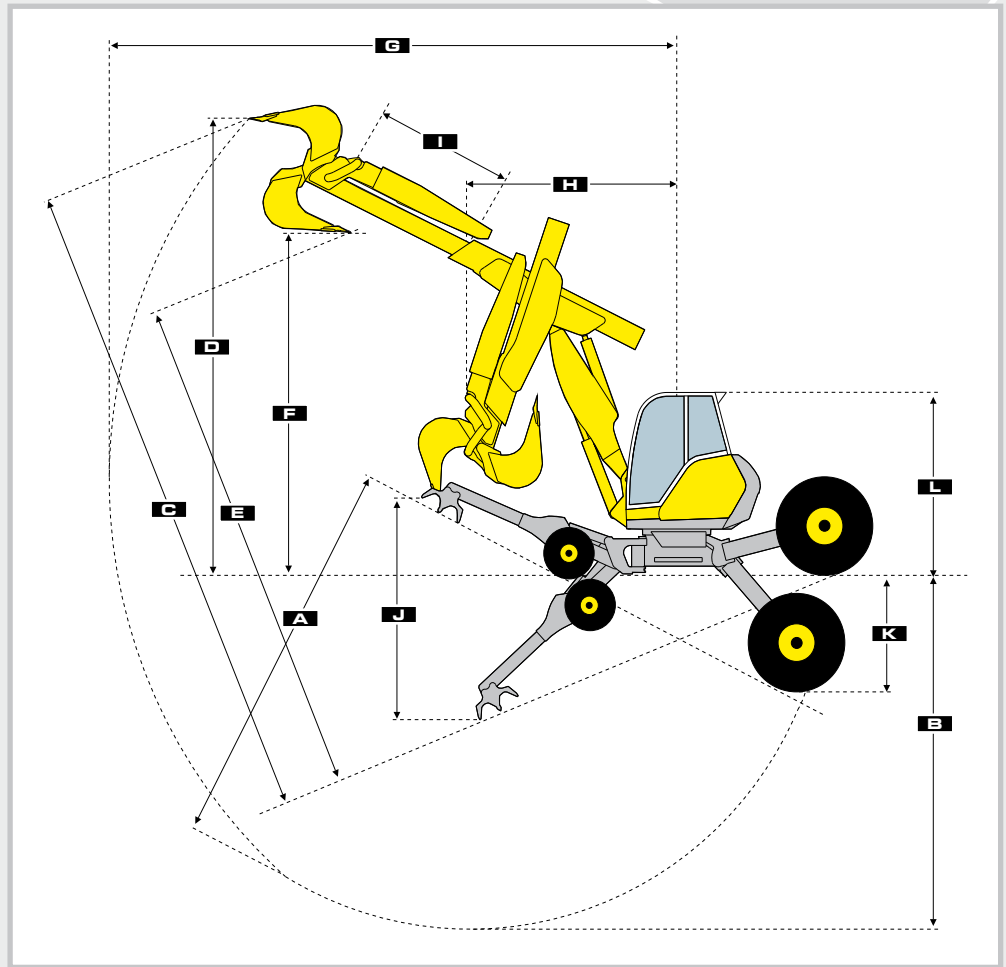
The machine has its own output-controlled swash plate axial piston pump for powerful driving. The system works in a closed cycle; supply volume of driving pump 130 l/min. / 34.3 US/gall. A hydraulic differential lock and automatic parking brakes ensure efficiency and ease of operation. Speed of 8 km/h / 5 mph with one-stage drive.

Optional: two-stage drive mechanism with a maximum speed of 15 km/h / 9.3 mph. The maximum driving torque increases in the this model by 18%.



<b>a</b>	Minimum width hub drive, transport width.....mm/inch ... 1'995..... 6'6"
<b>b</b>	Max. positioning width hub drive.....mm/inch ... 4'080..... 13'4"
<b>c</b>	Max. positioning width stabilizers .....mm/inch ... 5'600..... 18'4"
<b>d</b>	Chassis length .....mm/inch ... 5'120..... 16'9"

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## Tyres

Hub drive (standard) 500/60-22.5, 16 pr  
Alliance forestry tyres with steel insertions  
1'100 x 500 mm / 3'8" x 1'7"

Hub drive (optional) 600/50-22.5, 16 pr  
Nokian forestry tyres with steel insertions  
1'140 x 600 mm / 3'7" x 2'

Front drive (standard) 12.5/60-15  
720 x 275 mm / 2'4" x 8"

Front drive (optional) 300-15  
800 x 300 mm / 2'8" x 1'

## Measurements

<b>A</b>	Max. Excavation depth (with adjusted chassis) .....	mm/inch.....	5'000 .....	16'4"
<b>B</b>	Max. Excavation depth (chassis horizontal) .....	mm/inch.....	4'690 .....	15'4"
<b>C</b>	Max. Excavation height (with adjusted chassis) ....	mm/inch.....	8'690 .....	28'6"
<b>D</b>	Max. Excavation height (chassis horizontal) .....	mm/inch.....	6'390 .....	20'11"
<b>E</b>	Max. Discharge height (with adjusted chassis) .....	mm/inch.....	6'500 .....	21'4"
<b>F</b>	Max. Discharge height (chassis horizontal) .....	mm/inch.....	4'600 .....	15'1"
<b>G</b>	Max. Jib Range.....	mm/inch.....	7'470 .....	24'6"
<b>H</b>	Min. Swivelling radius .....	mm/inch.....	2'760 .....	9'
<b>I</b>	Dipper length .....	mm/inch.....	1'500 .....	4'11"
<b>J</b>	Positioning range stabilizers .....	mm/inch.....	2'610 .....	8'6"
<b>K</b>	Positioning range hub drive .....	mm/inch.....	1'750 .....	5'9"
<b>L</b>	Transport height .....	mm/inch.....	2'540 .....	8'4"

# The Menzi Muck A61 4x4 plus.

## Allwheel-drive. For the highest mobility.

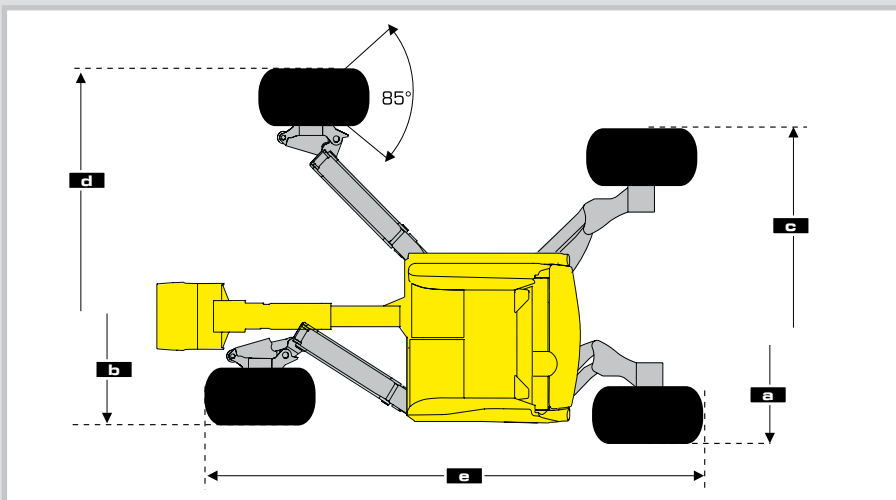
The machine has its own output-controlled swash plate axial piston pump for powerful driving. The system works in a closed cycle; supply volume of driving pump 130 l/min / 34.3 US/gall. A hydraulic differential lock and automatic parking brakes ensure efficiency and ease of operation.

## H-Drive system. Powerful drive.

The intelligent Menzi H-Drive control with torque overlay optimises efficiency in any operating position. The power is distributed over the four drive wheels in such a way that the highest possible traction is automatically achieved. Drive components with even more traction round out the new Menzi drive concept.

## Road Traction module. Maximum ground preservation.

An additional hydraulic lock can be switched on and off to allow a setting between maximum traction and maximum ground preservation to be selected via the RTM module.



<b>a</b>	Minimum width hub drive (transport width).....	mm/inch	..... 1'995	..... 6'6"
<b>b</b>	Minimum width front drive.....	mm/inch	..... 1'700	..... 5'6"
<b>c</b>	Maximum width hub drive.....	mm/inch	..... 4'077	..... 13'4"
<b>d</b>	Maximum width front drive.....	mm/inch	..... 5'500	..... 18'5"
<b>e</b>	Chassis length.....	mm/inch	..... 5'375	..... 17'7"

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**P-Matik stabilizers.  
More ground clearance.**

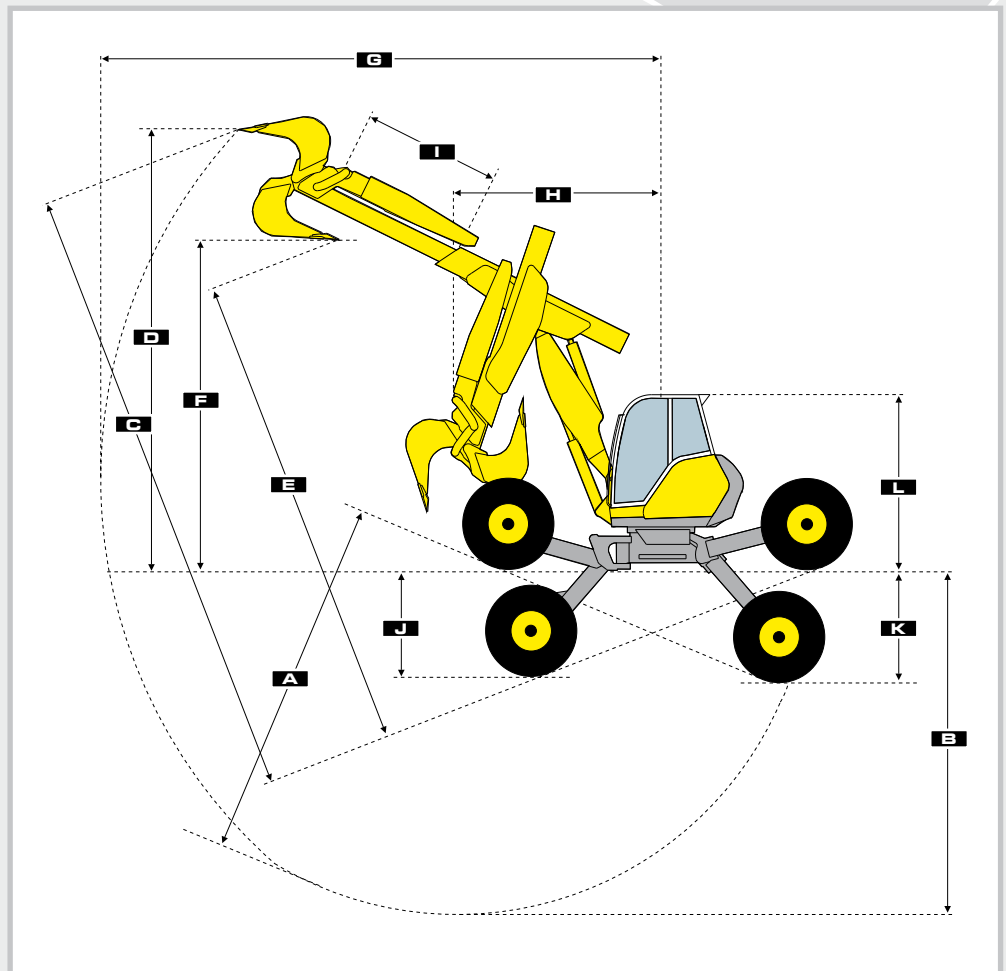
Consistent ground clearance in any position, as well as a permanent pivot point of the stub axle steering guarantees the parallelogram of the Menzi P-Matik stabilizers.

**Two-phase traction drive.  
Power or speed.**

The hydrostatic all-wheel technology offers two traction phases. It can be selected between maximum power or higher speed up to 10 km/h / 6.2 mph.

**Mountain pads.  
For stability in slope.**

It's possible to fit the Menzi Muck optionally with two hydraulic mountain pads



**Tyres**

Alliance forestry tyres with steel insertions (standard), 500/60-22.5, 16 pr  
1'100 x 500 mm / 3'7" x 1'8"

Nokian forestry tyres with steel insertions (standard), 600/50-22.5, 16 pr  
1'140 x 600 mm / 3'8" x 1'11"

**Menzi Muck A61 4x4 Plus**

<b>A</b>	Max. Excavation depth (with adjusted chassis)	mm/inch	4'750	15'7"
<b>B</b>	Max. Excavation depth (chassis horizontal)	mm/inch	4'690	15'4"
<b>C</b>	Max. Excavation height (with adjusted chassis)	mm/inch	8'260	27'11"
<b>D</b>	Max. Excavation height (chassis horizontal)	mm/inch	6'390	20'11"
<b>E</b>	Max. Discharge height (with adjusted chassis)	mm/inch	6'140	20'1"
<b>F</b>	Max. Discharge height (chassis horizontal)	mm/inch	4'600	15'1"
<b>G</b>	Max. Jib Range	mm/inch	7'470	24'6"
<b>H</b>	Min. Swivelling radius	mm/inch	2'760	9'6"
<b>I</b>	Dipper length	mm/inch	1'500	4'11"
<b>J</b>	Positioning range front drive	mm/inch	1'270	4'2"
<b>K</b>	Positioning range hub drive	mm/inch	1'750	5'7"
<b>L</b>	Transport height	mm/inch	2'540	8'9"

# The individual choice. The Menzi Muck to suit your requirements.

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## Automatic central lubrication

The correct lubrication of pivot points minimises wear and increases service life. Depending on the model, the Menzi Muck can have more than 60 grease points requiring lubrication at various intervals. Leave this laborious task to the automatic central lubrication system. During operation, the pivot points are optimally and reliably lubricated as they move.

## Biodegradable hydraulic oil

If using biodegradable hydraulic oil, we recommend, based on long-standing good experience, the product PANOLIN HLP SYNTH 46. A guarantee declaration must be obtained from the manufacturer if using different oils.



## A host of other options

We will be happy to advise you on further machine options, such as track equipment, forestry equipment, air-conditioning systems, auxiliary heating, comfort seat, lighting designs, special paint, safety windows, impact protection grilles, travel limiter, check valves on the boom cylinders etc. We will meet your individual requirements wherever possible.



## Hydraulic bypass filter (optional)

The careful handling and maintenance of the hydraulic oil determine its lifespan and preserve the components. While the machine is operating, five litres of hydraulic oil per minute continuously pass through the auxiliary flow filter over a fine filter.

## Country-specific optional equipment:

### Hoist

If loads are lifting using a hook, the law of many countries prescribes the use of appropriate safety equipment. This usually comprises: burst hose safety device on the boom cylinder and activatable and audible overload warning signal

### Soot particle filter

Passive filter system with catalytic converter-coated filters with pre-oxidation catalytic converter. Regeneration from an emission temperature of 210 degrees. Post-treating the emission guarantees 97% soot separation. Data logger and on-road display are supplied as standard. An ash-free engine oil must be used.

### Road equipment

The specified equipment for driving on public roads varies from country to country. The undercarriage technology. The concept for a safe stance.

# The standards. The options.

The modular system enables standard equipment to be expanded by a number of options geared towards meeting the customer's needs.

Operator's cab	A61 mobile	A61 4x4 plus
Vibration-free driver cab ROPS	+	+
FOPS roof to cab	0	0
Air-sprung driver seat Klepp	+	+
Air-sprung comfort seat Grammer	0	0
Folding arm rest for hydraulic safety	+	+
Adjustable armrests (incline and height)	+	+
Ergonomic joystick with hand rest	+	+
Security glazing polycarbonat	0	0
CD player/radio	+	+
Sun visor	+	+
Documents/stowage compartment/bottle holder	+	+
Shelf/clothes hook	+	+
Mobile phone socket	+	+
Heater	+	+
Air-conditioning unit	0	0
Lap strap	+	+
„Belt and suspender“ three-point safety belt	0	0
Auxiliary heater with timer	0	0

Stabilizing	A61 mobile	A61 4x4 plus
Hydraulic telescopic feet	+	-
Hydraulic hill stabilizers - 2 x	-	0
P-Matik stabilizers (parallelogram)	-	+

Hydraulic system	A61 mobile	A61 4x4 plus
Mineral hydraulic oil	+	+
Biologically biodegradable hydraulic Panolin	0	0
Hydraulic connection for winch (chassis)	0	0
Double-acting connection on boom, proportional	+	+
Double-acting connection on boom, digital	+	+
Double-acting connection for hydr. quick-change	0	0
Bypass filter	0	0
Leak oil line	0	0
Return line for hydraulic hammer	+	+

Tyres	A61 mobile	A61 4x4 plus
Steering wheels 12.5/60.15	+	-
Steering wheels 300-15	0	-
Forest tyres Alliance 500/60-22.5, 16 pr	+	+
Forest tyres Nokian 600/50-22.5, 16 pr	0	0
other tyres on demand	0	0

Traction / Steering	A61 mobile	A61 4x4 plus
Hydrostatic two-wheel drive	+	-
Hydrostatic all-wheel drive	-	+
Menzi H-Drive drive system	-	+
RTM module (Road Traction Module)	-	+
Stub axle steering	-	+
Parallel steering via axle adjustment cylinder	+	+
Two-phase traction drive	0	+
Hydraulic idle running gear	0	-

Boom	A61 mobile	A61 4x4 plus
Equipment for hoist operation	0	0
Mechanical protection for boom cylinder	0	0
Advertising space on hydraulic pipe on boom	0	0
Travel limited boom	0	0
Burst hose safety device on boom cylinder	0	0
Telescopic 1500 mm	+	+
Sensor-controlled travel limited telescopic boom	0	0
All hoses are in the driver's field of vision	+	+

Lighting	A61 mobile	A61 4x4 plus
2 front spotlights	+	+
2 rear spotlights	+	+
Protected indicators / reversing light	+	+
Spotlight on boom (with impact protection)	0	0
Rotating light on roof	0	0
LED spotlight	0	0
Xenon spotlight	0	0
Interior lighting	+	+

Other accessories	A61 mobile	A61 4x4 plus
Protection grille for windscreen	0	0
Swing limit	0	0
Switchable check valves for all boom cylinders	0	0
Paintwork in corporate colour	0	0
Particle filtre	0	0
Manual lubrication block for telescopic inner pipe	0	0
Central lubrication of chassis / upper carriage	0	0
Country-specific road equipment	0	0
Toolbox integrated into engine compartment	+	+

**Legend**  
Standard + Option 0 No -

# The Menzi Muck at work.



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