

Menzi Muck **M520**  
Menzi Muck **M525**  
Menzi Muck **M530**  
Menzi Muck **M535**  
Menzi Muck **M540**  
Menzi Muck **M545**

# M5



### The Highlights:

- Wide angle kinematics
- Force multiplier
- APM steering
- Panoramic view cab
- low fuel consumption

## The models of the new M5-series

### Menzi Muck M520

Hydrostatic two wheel drive  
Two removable shafts with steering wheels  
Hydraulic telescope support

### Menzi Muck M525

Hydrostatic two wheel drive  
Two removable shafts with steering wheels  
Hydraulic telescope support  
Hydraulic rear steering

### Menzi Muck M530

Hydrostatic all wheel drive over two big  
and two small tires  
Hydraulic telescope support

### Menzi Muck M535

Hydrostatic all wheel drive  
Two removable shafts with steering wheels  
Hydraulic telescope support  
Hydraulic rear steering

### Menzi Muck M540

Hydrostatic all wheel drive over four equal  
big tires  
P-Matic parallel-support

### Menzi Muck M545

Hydrostatic all wheel drive over four equal  
big tires  
P-Matic parallel-support  
sensor steered all wheel steering

**menzi**  
**muck**

# The new Menzi Muck M5-series.

## Technical description.

### Engine

4-cyl. Turbo Diesel-Engine / Commonrail  
Deutz TCD 4.1 L4  
Exhaust stage EU 97/98 IIIB (TIER 4 interim)  
integrated particle filter/catalyst (without additive)  
max. output 115 kW (157 HP) according to SAE J1995 / ISO 3046  
adjusted performance according to ISO 14396: = 114 kW (155 HP) at 2000 min-1  
Maximum torque at 1600 min-1: 610 Nm  
Capacity 4100 ccm  
Service interval 500 hours

### Cooling

Generously dimensioned cooling system (pull).  
Three separate coordinated cooler elements for hydraulic oil/ charge air/ water  
maximum cooling capacity through side-by-side arrangement of the cooling elements  
Variable fan motor  
optional: swing condenser-element for air-conditioning

### Hydraulic system

Sensitive LUDV Load Sensing hydraulic system  
Two capacity controlled swash plate axial piston pumps (P1/P2)  
Optional: third controlled swash plate axial piston pump (P3)  
Gear pump for fan drive  
Operating pressure 300 bar/4351 psi  
Capacities of the hydraulic pumps:  
P1 = 290 l/min/ 76,6 US-gall. for working @ 300 bar/4351 psi  
P2 = 180 l/min. / 47,5 US-gall. for driving @ 400 bar/5802 psi  
P3= 190 l/min. / 50,19 US-gall. for powerline M5 (optional) @ 350 bar/5076 psi  
P4= 52 L/min. / 13,7 US-gall. @ 200 bar

### Hydraulic cylinder

The hydraulic cylinders are again from our own design and manufacturing  
Cylinders on the chassis are equipped with check valves (safety hose break)  
All cylinders on the boom assembly are equipped with cushioning

### Hydraulic circuits

Circuit 1 (on the boom assembly): up to 190 l/min. / 50,19 US-gall. through proportional foot pedal- double acting  
Circuit 2 (on the boom assembly): up to 100 l/min./26.4 US-gall. through proportional-rocker switch on the right joystick – double acting  
Circuit 3 (on the boom assembly): up to 40 l/min./10.6 US-gall. through switch on the left joystick - double acting (optional)  
Circuit 4 (on the boom assembly): for hydraulic quick hitch from pilot pressure – double acting (optional)  
Hydraulic preparation for winch (on the chassis): up to 120 l/min./31.7 US-gall. through proportional rocker switch on the left joystick – double acting (optional)  
Return line (on the boom assembly): for hydraulic hammer  
Leakage line (optional)  
The required liters/US-gallons of the auxiliary hydraulic circuits can be selected over the colored display.

### Powerline M5 (optional)

The powerline M5 is recommended for accessories, which demand a permanent specific high power output:  
As for example Mowers, harvester heads, drill rigs or stumpgrinders  
The option Powerline is composed as follows:  
1 separate hydraulic pump (P3) with priority supply up to 190 l/min. / 50,19 US-gall. simple acting circuit  
1 large hydraulic hose to the arm for pressure and return  
Pressure up to max. 350 bar/5076 psi, quantity of liters up to max. 190 l/min. / 50,19 US-gall. can be selected over the display  
Double acting circuit (optional)

### Electrical system

Voltage 24 volts  
Starter 4.0 kW  
Alternator 100 Amp  
Total electrical power 2400 Watt

### Rotation / Swivelling

Swivelling with momentary steering over the joysticks for proportional and demand control  
Double supported slewing ring  
Slewing ring, size modul 10  
Maximum slewable speed up to 10 rpm  
Axial pinion constant engine with high starting torque, integrated valves with ramp time for soft approaching and deceleration of the swing  
Automatic acting disc brake  
Swivelling radius 360° endless  
Maximum swivelling moment 52'000 Nm

### Drive M5-Serie

Hydrostatic drive in closed circuit  
Separate Hydraulic pump – capacity 180 l/min./47,5 US-gall.; max. 400 bar/5802 psi  
Two stage travelling gear (according to type and tires up to max. 15 km/h/9.32 mph)  
Automatic parking brake  
Automotive drive: Through the foot pedal the engine speed and drive are driven synchronously. Within both speed steps the foot pedal can be adjusted in a finer resolution by a pushbutton.

### Drive M540 & M545

All wheel drive Menzi H-Drive-System with torque overlay for maximum power conversion regarding traction / transmission  
Menzi Raod Traction Modul (RTM) switchable barrier for maximum drive or modus for maximum floor / tire-conserving

### Tires big wheels

Quality forestry Nokian tires 600/50-22,5 with steel inserts (b=600 mm, d=1140 mm)  
Optional: Quality forestry tires Nokian 600/55-26,5 with steel inserts (b=600 mm, d= 1350 mm)  
other tires on inquiry

### Tank contents

Operating tank: 205 liters / 54.2 US-gall.  
Additional fuel tank in the chassis: 230 liters / 60.8 US-gall.  
Hydraulic oil system content: 220 liters / 58.1 US-gall.

## Steel construction

Beside our know-how as years of market and technology leader all supported steelwork are statically charged per FEM (Finite-Elemente-Method) All moving parts are equipped with wear bushings.

## Chassis / support

Proven construction with years of experience  
Swivel feet in front are of unstressed steel casting  
Construction with maximum ground clearance  
Relevant moving parts are equipped with wear bushings

## Operation /Steering

Ergonomic multi function lever Menzi ultijystick with each two proportional rockers (with palmrest)  
Standard equipped with three foot pedals (drive, telescope and auxiliary circuit)  
Fourth foot pedal for winch (optional)  
Various toggle switches

## Menzi Powerboom

Patented boom  
No collision danger with boom cylinder  
Minimal turning radius through new arm concept  
Menzi wide angle for maximum working area  
Design allows close range operations  
Hydraulic telescope 1800 mm  
Telescope supported by 8 wear plates (front and back on all four sides)  
Maximum lift capacity / larger cylinder diameter  
Bucket pin diameter 60 mm

## Panorama-Cockpit

Spacious and clear panorama-security-cockpit with „Roll-Over-Protection-System“ – ROPS according to (DIN ISO 3471)  
Vibration free and quiet cabin through hydromounts  
Cabin can be tilted with a hydraulic hand pump  
Optimal view on all sides  
View up by rounded and bent far back windscreen

Front and right side window hinged  
Air cushioned seat type „Klepp“  
Radio with CD-Player, inclusive two speakers.  
Storage compartments, document compartment, bottle holder, cubbyholes, socket for charging mobil phones, coat hook etc.  
8 spotlights standard  
(4 in the front / 4 in the back)  
Powerful heating with seven individual adjustable air nuzzles  
Standard equipped with pollen and recirculated air filter  
Powerful air-conditioning with automatic climate control (optional)  
Air-cushioned comfort seat type Grammer (optional)

## Dashboard with LCD-Display

Clear and ergonomic arranged instrument panel  
Analog controls with integrated color display to show the most important indicators: engine speed, hourmeter, day time counter, fuel gauge, dirty air filter, hydraulic oil temperature, water temperature, battery state of charge, engine oil pressure, pressure hydraulic return filter, alarm, service display, engine stop etc.  
various control elements with toggles switches  
Optional: with rearview camera

## Further Equipment

Diesel fuel pump with auto stop  
integrated tool box

## Individual options

Air-cushioned comfort seat, type Grammer  
Three point safety belt (suspenders)  
Air-conditioning with automatic climate control  
Special color  
Heater with time clock

## Optional Equipment

Equipment for heavy lifting  
Biodegradable hydraulic oil  
Road Equipment (country-specific)  
Automatic central lubrication system  
Safety valves on the dipper cylinder  
Turning light on the roof

FOPS-roof  
LED-additional light on the boom assembly  
LED-lights  
Xenon lights  
Lightning system on the roof  
Reversibal fan (reverse ventilation)  
Additional external tool box

## Options Hydraulic

Hydraulic preparation for winch  
Circuit No. 3 for additional functions (40 l/min/10.6 US-gall. - digital - double acting)  
Circuit No. 4 for hydraulic quick hitch  
Powerline M5 - for maximum efficiency for accessories which demand a high oil flow  
Hydraulic affluent filter  
Leakage line  
Electrically switchable check valves

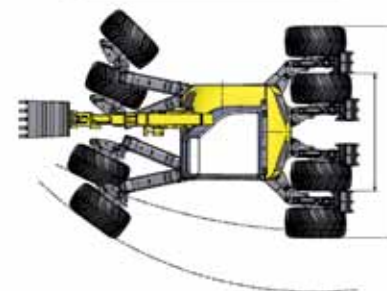
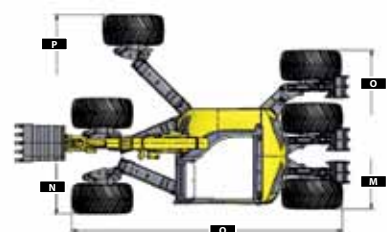
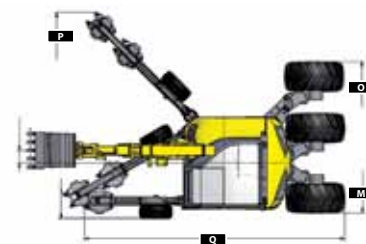
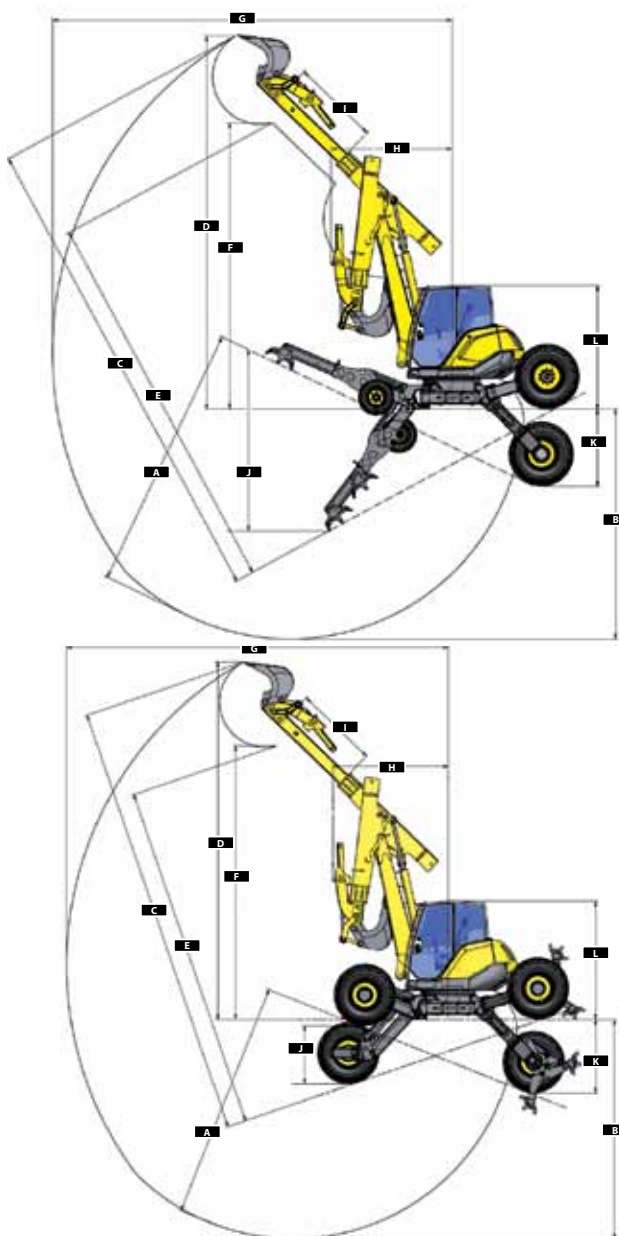
## Type specific options

M520 & M525: Hydraulic free wheels on driving wheels  
M530 & M535: Mechanical or hydraulic lifting axle of small wheels  
M540 & M545: Hydraulic mountain steel claws (rigid, mechanically extendable or hydraulically telescoped)

## Accessories

Digging buckets 400/600/800/1000 mm  
Hydraulic grading bucket 1400 mm  
Grading bucket, rigid 1300/1500 mm  
Hydraulic quick hitch  
Powertilt with hydraulic quick hitch  
Tiltrotator with/without grapple  
Oil-Quick-Coupling system  
Original Menzi Universalgrab type UG12  
Hydraulic Hammer / concrete crusher  
Hydraulic hedge shear / Feller-Buncher  
Mowers /hydr.mowing bucket  
Drill rigs  
Hydraulic Mowing bucket  
Latticed bucket/ Skimmer bucket/ Crushing bucket  
Stump cutter / Compression vibro plate  
Winch  
other accessories on enquiry

## Dimensions



| Dimensionen in mm                                    | M520 | M525 | M530 | M535 | M540 | M545 |
|--|------|------|------|------|------|------|
| A Max. Excavation depth with adjusted chassis        | 5470 | 5470 | 5460 | 5460 | 5120 | 5140 |
| B Max. Excavation depth chassis horizontal           | 4730 | 4730 | 4730 | 4730 | 4730 | 4730 |
| C Max. Excavation height with adjusted chassis       | 9870 | 9910 | 9870 | 9900 | 9360 | 9360 |
| D Max. Excavation height chassis horizontal          | 7700 | 7700 | 7700 | 7700 | 7700 | 7700 |
| E Max. Discharge height with adjusted chassis        | 7940 | 7970 | 7940 | 7970 | 7420 | 7430 |
| F Max. Discharge height chassis horizontal           | 5890 | 5890 | 5890 | 5890 | 5890 | 5890 |
| G Max. Jib Range                                     | 8210 | 8210 | 8210 | 8210 | 8210 | 8210 |
| H Min. Swivelling radius                             | 2480 | 2480 | 2480 | 2480 | 2480 | 2480 |
| I Dipper length                                      | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 |
| J Positioning range stabilizers (M340: front wheels) | 3660 | 3660 | 3670 | 3670 | 1250 | 1250 |
| K Positioning range hub drive (M340: rear wheels)    | 1580 | 1650 | 1570 | 1650 | 1580 | 1650 |
| L Transport height                                   | 2550 | 2550 | 2550 | 2550 | 2550 | 2550 |
| M Minimum width hub drive, transport width           | 2230 | 2370 | 2230 | 2370 | 2300 | 2380 |
| N Minimum width front drive, transport width         | 2180 | 2180 | 2350 | 2350 | 2430 | 2430 |
| O Max. positioning width hub drive / rear wheels     | 4530 | 4680 | 4530 | 4680 | 4600 | 4690 |
| P Max. positioning width stabilizers / front wheels  | 6730 | 6720 | 6730 | 6730 | 6140 | 6140 |
| Q Chassis length                                     | 5830 | 5960 | 5040 | 5180 | 5880 | 6190 |