



**The Menzi Miles rail excavator.
Mobility, speed and efficiency.**

The Menzi Miles M585 rail excavator.

Mobility, speed and efficiency.

Power

The powerful 4-cylinder Turbo-Diesel Deutz engine (115 kW / 157 PS) distributes its output via 5 hydraulic pumps and thus covers the performance requirements of all attachments and work situations..

Reliability

Equipped with the components of the Menzi Muck and extensive safety functions, the operator can fully concentrate on his work.

Speed

The «Shift on Fly» load-shift gearbox optimally combines comfort with performance. With a speed of up to 25 km / h, you can reach every workplace comfortably and quickly, with gradients of up to 62% being achieved.



Mobility

The development of the Menzi wheeled excavator focused on high mobility with compact machine dimensions. The M585 achieves the highest performance even in the narrowest maneuvers. Thanks to the four-wheel steering, maneuverability is again increased.

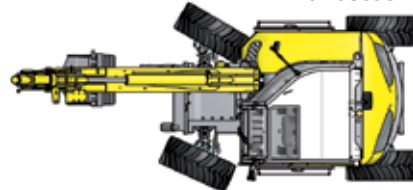
Panorama cockpit

A free view of the entire working environment, the support and the wheels, provide the operator with safety and complete control in all situations. The spacious cab provides a perfect sense of space and many practical details for relaxed working.

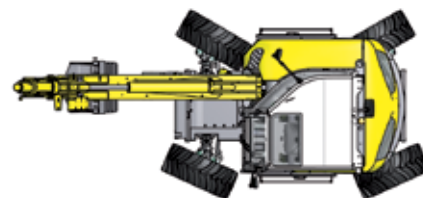
Steering

The all-wheel steering promises maximum maneuverability. Switch by push button on front steering or side steering. The steering mode can be changed via joystick. This is detected automatically and the wheel position is synchronized via the sensors.

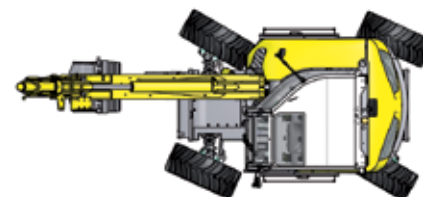
Front steering



All-wheel steering



Side steering



Economical. Powerful. Efficient. Engine, hydraulic, electric and cooling system.

APM - up to 30% fuel savings

The APM controller (Anticipating Power Management) creates a new, fast and harmonic interplay between the motor and the hydraulics. Overloading is thereby reduced to an absolute minimum. Power, Eco and Fine mode provide extra help in efficient operation of the machines. Power-lift function for maximum forces.

Deutz-Power: exhaust Tier IV

The retrofitting of a particulate filter is no longer a topic. The powerful 4-cylinder Turbo-Diesel engine of Deutz (115 KW / 157 HP) meets the exhaust Tier IV.

Cooling system

Generously dimensioned cooling system, 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 engine, option: swing condenser-element for air-conditioning, reversibel fan (reverse ventilation).

Swiveling with big slewing ring

An radial piston motor with automatic multi-disc stop brake acts via a planetary gear on the internal gearing of the large-dimensioned, double-row slewing ring (Ø 1200 mm, hardened tooth flank). The large volume swing motor operates extremely quietly and is completely maintenance free. The maximum slewing force is available over the entire speed range.

Hydraulic system

Sensitive Load Sensing hydraulic system by Bosch-Rexroth. The harmonious operating cycle is geared towards smooth and optimised performance.

Two capacity controlled swash plate axial piston pumps (P2/P4) for working and driving operations, a gear pump (P1) for fan drive, optional: a third controlled swash plate axial piston pump (P3 Powerline)

Hydraulic cylinders

All cylinders on the chassis are equipped with check valves for safety. All cylinders on the boom are equipped with cushioning.

Hydraulic circuits

The required liter /gallons quantities of the hydraulic auxiliary circuits can be selected on the color display.

Powerline - when power is the key

A separate pump supplies the additional connection of up to 190 l / 50 US.-gall. per minute. A consistently high oil supply increases therefore the efficiency of the accessories significantly. Volumes and pressures can be programmed individually.

Tank contents

Operating tank
205 liters / 54.2 US.-gall.
Content of hydraulic system
220 liters / 58.1 US.-gall.

Options

- automatic central lubrication system
- biodegradable hydraulic oil
- hydraulic bypass filter
- heavy lifting and road equipment
- hydraulic preparation for winch
- LED-additional light on the boom
- additional external tool box
- Additional fuel tank in the chassis
230 liters / 60.8 US.-gall.
- special color
- leakage line and lifting limiter
- electrically switchable check valves
- safety valves on the dipper cylinder
- immobiliser
- remote maintenance



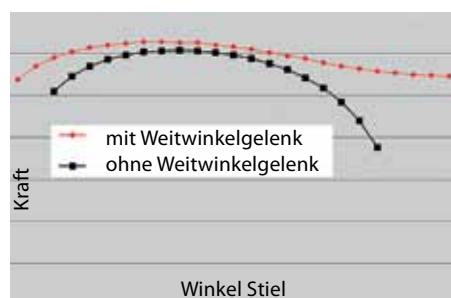
Menzi powerboom

There is a lot of innovation in the proven and unique boom of the M-series. Unique to Menzi Muck, the boom cylinder is mounted horizontally in the center part. Collisions at the boom cylinder are therefore impossible.

Wide-angle kinematics with power booster

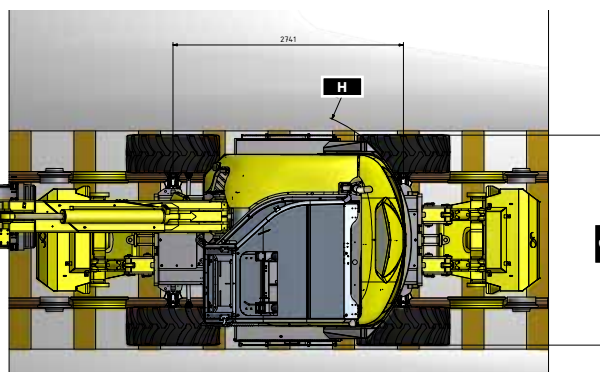
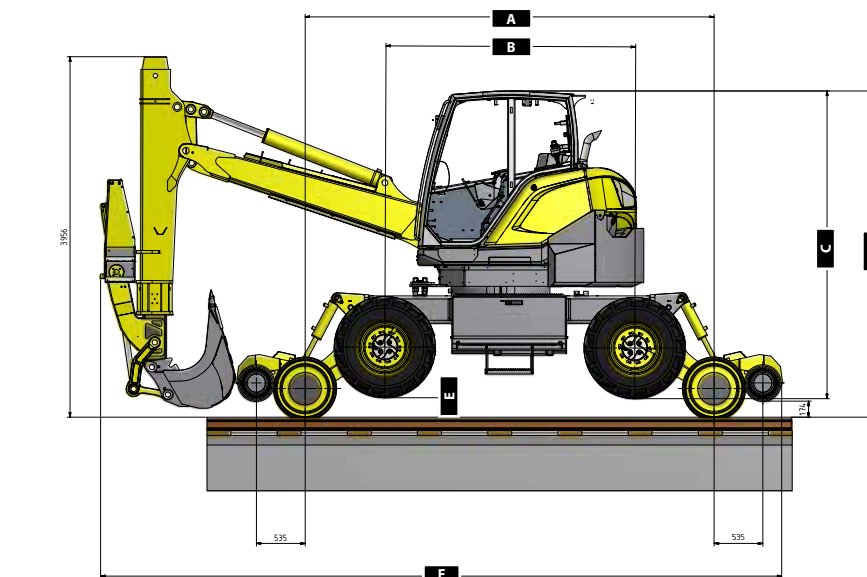
The kinematics of Menzi Muck opens new dimensions: optimum work in the close-up range at the minimum possible swivel radius is contrasted with maximum stretching of the boom. The Menzi power booster thereby supplies the highest possible forces over the whole working range.

Kinematics comparison at the dipper

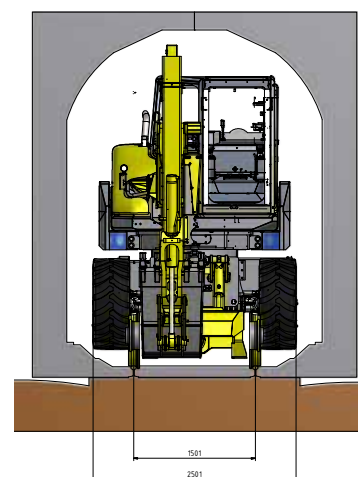


Unrivalled forces *

Lifting capacity @ 3.0 m	9200 kg / 20283 lb
Lifting capacity @ 4.5 m	6000 kg / 13228 lb
Lifting capacity @ 6.0 m	4100 kg / 9039 lb
Breakout force	102000 N / 10401kp
Ripping force	69000 N / 7036 kp
* depending on stabilization	



	Dimensions in mm	M585
A	Axial distance rail wheels	4489
B	Axial distance tyres	2741
C	Total height	3394
D	Height over rails	3578
E	Rail clearance	214
F	Total length	7476
G	Total width	2501
H	Turning radius	1570



Digging arc comparison

The new arm kinematics results in 18 % more working area.