

Electric miniexcavator

M18e



ZERO EMISSION

MESSERSI
machines born to work

FEATURES

- Miniexcavator with mixed hydraulic/battery chain drive: one electric motor with 16 kW power drives the hydrostatic transmission with axial piston pumps and orbital motors, with negative control brakes and priority valve.
- Double speed driving motors.
- Auto-Idle
- **Extendable tracks width** (1050mm - 1300mm).
- **Proportional servo-controlled machine: the boom swing and the double effect auxiliary line (AUX) are controlled by rollers on the joy-stick (no pedals in the cab).**

STANDARD EQUIPMENT: Canopy/Cab according to TOPS-FOPS norms - Breaker line (AUX) - Digging arm of 1200 mm.

OPTIONAL EQUIPMENT: Mechanical Quick Hitches - Steel tracks.

TECHNICAL DATA

ENGINE AND BATTERY

Three-phase asynchronous electric motor with electronic control	kW	16
Autonomy in continuous work:		
- ECO @1500 rpm	h	8
- POWER @2000 rpm	h	6
- EXTRA POWER @2500 rpm	h	4
Battery pack capacity	A/h	450
Rated voltage	V	48
Cells type: LiFePO4 (Lithium-Iron-Phosphate)		
Average battery life (charge-discharge cycles)	n°	3000
Recharging time with on board charger (110 V+240 V)	h	8 / 10
Cooling of the controllers	type	aluminum heat sink

REFUELLING

- Hydraulic oil tank capacity	l	25
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TECHNICAL DATA

HYDRAULIC SYSTEM

- Hydrostatic transmission with orbital motors and 2 speeds reduction gears with negative brakes.
- N.2 variable displacement piston pumps + gear pump
- Total delivery
- Hydraulic delivery for the AUX line
- Max working pressure
- Slew speed
- Boom, arm, bucket and slew actuated by servo-controlled joysticks.
- Proportional servo-controlled rollers on the joy-sticks for the boom swing and the single and double effect AUX line. Levers to control track and dozer blade;
- Heat exchanger for oil cooling.

PERFORMANCES

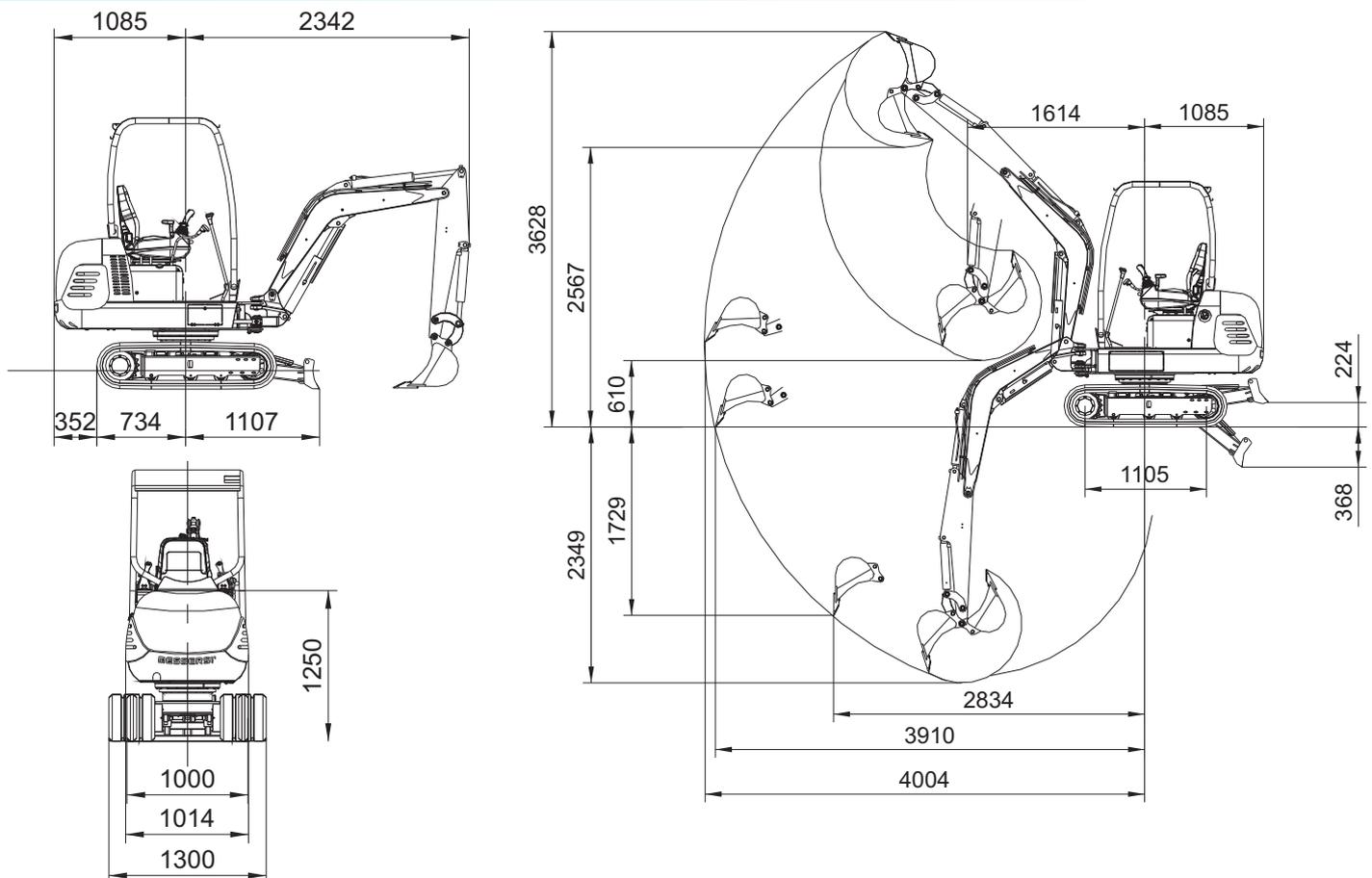
- Operating weight with canopy / cab	kg	1740 / 1850
- Break out force	daN	1605
- Digging force	daN	895
- Travel speed	km/h	2.0 / 4.0
- Max gradient capability	more than %	100
- Specific ground pressure canopy / cab	kg/cm ²	0.296 / 0.315

UNDERCARRIAGE

- Track type and width	mm	rubber 230
- Track bearing rollers	n°	3+3 low
- Track tensioning		grease
- Dozer blade	mm	250 x 1295

DIMENSIONS AND PERFORMANCES

Dimensions in mm



Data, features and pictures are not binding and may be altered without any prior notice.



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