

ZERO TAIL SWING

MESSERSI^{S.p.A.}
IL GIGANTE BLU

MINIEXCAVATOR M-22U



FEATURES

- M-22U Mini-excavator enters the already wide Messersì range, starting the new models able to slew within the tracks width (**ZERO TAIL SWING**). Operator while working with the machine knows that only the excavating arm (controlled at sight from the seat) is out of the limits of the machine.
- Engine complies to the norm 97/68/EC Stage 2 relevant to the polluting emissions.
 - Straight travel circuit, electrically engaged, for simultaneous operation of travel and front digging attachment.
 - Two track speed via axial piston motors with two different displacements to increase travelling speed.
 - Extraordinary manoeuvrability due to the employment, on all functions, of pilot assisted controls (except for the refilling blade and for the boom swinging).
 - A particular care has also been given to the design, to the maintenance operations and to the safety of the operator.
 - Its round shaped design recalls the other models of the range, thus creating a continuity of style and image, and giving a strong personalization to all our Mini excavators.
 - Lock of ALL the pilot assisted controls and of the levers when the armrest is lifted, thus excluding the danger of any undesired and uncontrolled movement caused by the accidental push of the control levers and pedals, when getting on and off the machine.

STANDARD EQUIPEMENT: Bucket of mm 400 (SAE capacity L.60) - Canopy - Use & maintenance and spare parts manuals - Electrically operated second travelling speed - Mt 1.00 dipper stick - Regenerative valve on dipper stick.

TECHNICAL DATA

ENGINE:

- Make and model		Kubota D1105
- Installed power at 2500 rpm	HP/Kw	23.7 / 17.5
- Cylinders	N°	3
- Displacement	cm³	1123
- Cooling		water
- Battery	N°	1 - 12V - 60Ah

TECHNICAL DATA

HYDRAULIC SYSTEM:

- Hydrostatic transmission with axial piston motors and planetary drives with negative control brakes.
- Travel counter-balance valves.
- Main axial pistons pump with variable displacement. Lt/min 21.8 x 2
- Secondary gear pump. Lt/min 15.5 x 1
- Total delivery. Lt/min 59.1
- Auxiliary hydraulic flow for P.T.O. Lt/min 37.3
- Max working pressure. bar 220 / 180
- Slew speed with axial pistons hydraulic motor and negative control brake. g/min 10
- Hydraulic joy-stick to move bucket and arms and slew the upper frame.
- Hydraulic pilot assisted pedal to operate power take off with double and single effect.
- Lever to control dozer blade and tracks
- Pedal control to operate boom swing.
- Heat exchanger for hydraulic oil cooling.

UNDERCARRIAGE:

- Steel frame of box section type
- Type and width of tracks mm rubber 250
- Track's bearing rollers N° 4+4 low.+guide block with grease
- Track tensioning
- Dozer blade mm 240 x 1460

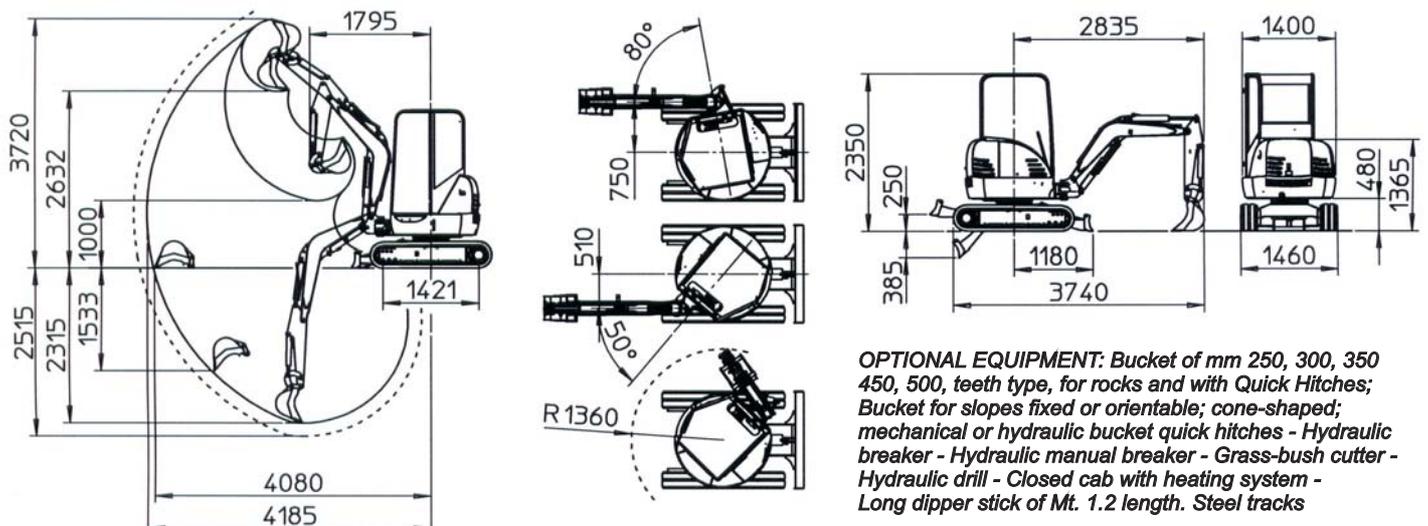
PERFORMANCES:

- Operating weight Kg 2100
- Break out force daN 1850
- Digging force (arm m 1.0 / 1.2 length) daN 1410 / 1235
- Travel speed: I / II Km/h 2.2 / 4.0
- Max gradient capability % 100
- Specific ground pressure Kg/cm² 0.289

REFUELLING:

- Fuel tank capacity (Diesel) lt 30
- Hydraulic oil tank capacity lt 28

OVERALL DIMENSIONS AND PERFORMANCES



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