

SHORT  
RADIUS



il gigante blu

TRANSPORT WEIGHT  
Kg 1350



MINIEXCAVATOR \_M-13

 **MESSERSI**<sup>spa</sup>  
IL GIGANTE BLU

Azienda certificata



## FEATURES M-13

The Miniexcavator M-13, last born of Messersi production, reaches the top of the sector thanks to its technological innovations and solutions. Great attention has been given to its weight, which has been limited to permit its transport on vehicles with total weight on ground (full loaded) of 3.5 tons. and also on small trailers.

- Engine complies to the norm 97/68/EC Stage 2 relevant to polluting emissions.
- Original design, with reduced slew radius (only 650 mm) and total protection of the engine bonnet, so that this machine can be classified as a **SR excavator (Short Radius)**
- The cushioned and adjustable seat ensures the control of the machine in full security and comfort.
- Lock of all the pilot assisted controls and 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.
- Extraordinary manoeuvrability due to the use of pilot assisted controls on joy-sticks to operate arms and bucket.
- A particular care has also been given to design, maintenance operations and 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 identity to all our Miniexcavators.

**STANDARD EQUIPMENT:** Canopy (FOPS, TOPS Standards) - Bucket of 300 mm (SAE capacity lt. 25) - Use & Maintenance and Spare Parts Manuals.

**OPTIONAL EQUIPMENT:** Buckets of mm 250, 350, 450, 500, standard, for rocks and for Quick Hitches - Bucket for slopes fixed or swivel - Slopes cleaning buckets - Mechanical or hydraulic quick hitch - Hydraulic breaker - Manual hydraulic breaker - Hydraulic drill

## TECHNICAL DATA

### ENGINE

- Make and model		Kubota D902
- Max. power at 3200 rpm (DIN 6271)	HP/Kw	20.6/15.4
- Rated power at 2400 rpm	HP/Kw	19/14
- Cylinders	n.	3
- Displacement	cm <sup>3</sup>	898
- Cooling		water
- Battery	n.	1 - 12 V - 44 Ah

## TECHNICAL DATA

### HYDRAULIC SYSTEM

- Hydrostatic transmission with orbital motors and planetary reduction gears with negative brakes		
- Travelling counter-balance valves		
- N. 2 gear pumps	Lt./min	15 x 2
- Total delivery	Lt./min	30
- Auxiliary hydraulic flow for P.T.O.	Lt./min	30
- Max. working pressure	bar	170
- Slew speed		9.5
(with orbit motor)	g/min	
- Boom, arm, bucket and slew actuated by servo-controlled joysticks		
- Mechanical levers to control tracks, pedals to control boom swing and single and double effect P.T.O.		
- Lever to control dozer blade		
- Heat exchanger for oil cooling		

### UNDERCARRIAGE

- Box section steel frame		
- Track type and width		rubber 200 mm.
- Track bearing rollers	n.	3+3 low/guide block adjusting screw
- Track tensioning		250 x 990
- Dozer blade	mm.	

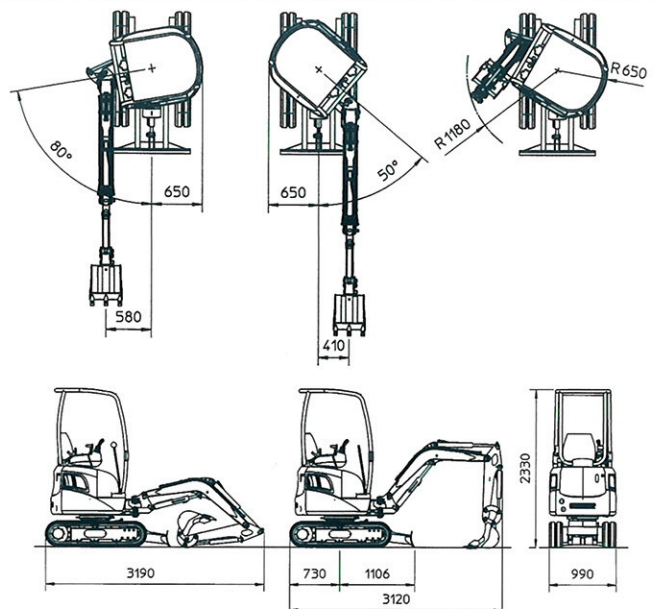
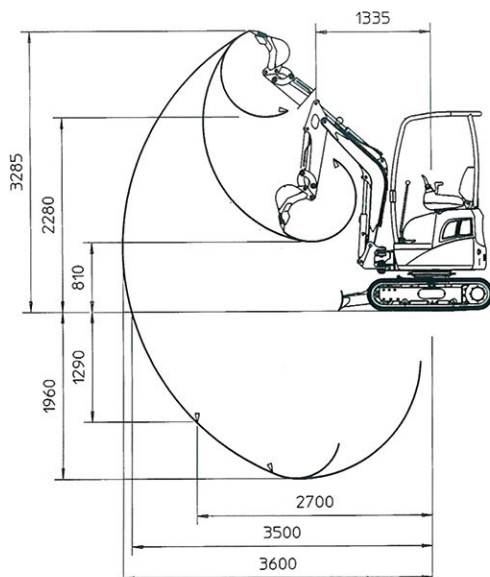
### PERFORMANCES

- Shipping weight	Kg	1350
- Operating weight	Kg	1420
- Break-out force	daN	1200
- Digging force	daN	800
- Travel speed	Km/h	1.8
- Max. gradient capacity	more than %	100
- Specific ground pressure	Km/cm	0.285

### REFUELLING

- Fuel tank capacity	Lt	20
- Hydraulic oil tank capacity	Lt	19

## DIMENSIONS AND PERFORMANCES



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

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