

MANTIS

COMPACT HYDRAULIC ROLLER RANGE



*Made in Italy
since 1957*



MORO
ARATRI ®



MANTIS

It is the innovative line of trailed rollers, available in versions from 4,30 meters to 7,30 meters. Advanced CAD software is used for design and structural analysis of these machines, with simulated performance and fatigue testing. The chassis of the Mantis rollers, like all the other structural parts, is made of special steel, with a very high yield load.



MANTIS ROLLER



Designed and assembled by MORO Aratri, the MANTIS rollers ensure an optimal compaction and levelling of the soil. Suitable not only for sowing preparation, for an ideal seed bed, but also for after sowing, in order to help the compaction, aeration and so an excellent crop germination.

STURDY FRAME

MANTIS frame has been designed with particular attention to the optimal load distribution on all sections. The compact design ensures resistance to stress in the field, and excellent manoeuvrability both while rolling and transporting.



WING SYSTEM - LOAD DISTRIBUTION

Two springs placed between the lateral wings and the central frame allow mechanically the partial transfert of the weight from the central section to the lateral sections. Thus allowing an uniform pressure all along the working width.

A slot specifically designed at the end of the hydraulic actuator, which links the two lateral sections, allows independent movements of the sections. As a consequence, it is possible to achieve a continuous contact with the soil even with slopes.



ROLLER

Rings are placed on a 60 mm heat-treated axle. Fixing to the main structure is ensured by 2 robust bearings.

The roller is also equipped with an adjuster which allows to tighten the rings.



MANTIS ROLLER



CAMBRIDGE RING

Cambridge ring of \varnothing 520 mm is ideal for compacting the soil after sowing. Braking the surface, aids the germination and allows the roots to be aerated.

The toothed rings allows a correct rolling even on loose soil, avoiding the roller to be blocked.

UNFOLDING IN WORKING POSITION - FOLDING IN TRANSPORT POSITION

Unfolding and folding of the roller are controlled hydraulically from the tractor cab. Central lifting is made by a single-effect hydraulic actuator, while the unfolding, is made by a second double-acting hydraulic.





TRANSPORT

MANTIS frame, due to the compact structure, has a transport width of 2,50 Mt. the 2 lateral sections are blocked, in order to guarantee the maximum safety.



CLOD RAKE

All the Mantis rollers can be equipped with the CLOD RAKE. Due to this optional, it is possible to crush the clods and, at the same time, to level the soil. The adjustment is hydraulic (standard equipment), and it allows to correctly set or exclude the clod rake in case of wet soils.



TECHNICAL DATA

MANTIS							MANTIS
MODEL	TRANSPORT WIDTH m	WORKING WIDTH m	WEIGHT Kg Cambridge 52 cm	SECTIONS	HYDRAULIC SERVICES	WHEELS	POWER HP Min.
MANTIS 4.3	2.50	4.30	2500	3	1 x D + 1 x S	11.5/80-15.3	80
MANTIS 5.3	2.50	5.30	3000	3	1 x D + 1 x S	11.5/80-15.3	90
MANTIS 6.3	2.50	6.30	3290	3	1 x D + 1 x S	11.5/80-15.3	100
MANTIS 7.3	2.50	7.30	3650	3	1 x D + 1 x S	11.5/80-15.3	120

V 1.3 Inglese

The data indicated in this folder are approximate. The models described here can be subjected to modifications without any notice by the manufacturer. The drawings and photos may refer to equipment that is either optional or intended for other countries. Please apply to our Sales Network for any further information.

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