

# MANTIS

COMPACT HYDRAULIC ROLLER RANGE

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**MORO**  
YOUR OWN FURROW





# 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

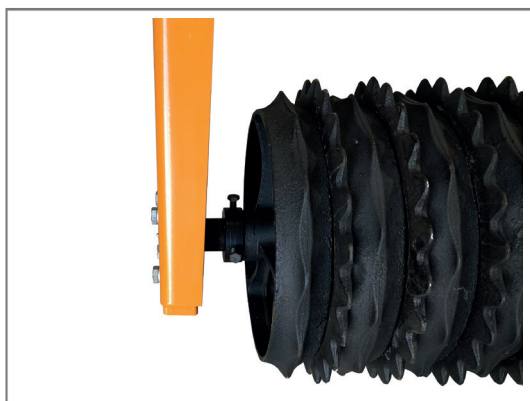
Two springs placed between the lateral wings and the central frame allow mechanically the partial transfert of the weight from the central section to the lateral sections. Thus allowing an uniform pressure all along the working width.

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<br>WIDTH<br>m | WORKING<br>WIDTH<br>m | WEIGHT Kg<br>Cambridge<br>52cm | SECTIONS | HYDRAULIC<br>SERVICES | WHEELS       | POWER<br>HP <b>Min.</b> |
| 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                     |

**Disclaimer:**

The data provided in this brochure is for guidance only; the manufacturer reserves the right to make changes to the models described without prior notice. Drawings and photographs may show optional equipment or setups intended for other countries. For any further information, please contact our sales network.

**MORO Aratri s.r.l.**

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