CRABBER

CULTIVATOR RANGE

EN



MORO

YOUR OWN FURROW



CRABBER

The cultivator range for minimum tillage, designed and engineered following MORO Aratri philosophy. The characteristics of the steel used and the particular structure with bolted joints make the CRABBER suitable for all working conditions. Each tine features a shear bolt safety device or, if equipped with the Stone System technology, a double helicoidal spring safety device. The generous under beam clearance of 85 cm ensures a free flow of the soil, avoiding blocking between the tines and allowing an excellent mixing.



DESIGN AND RELIABILITY

The 3 bar frame is suitable both for shallow or intensive working. The tines are placed in order to evenly work the soil, without leaving any non-worked parts, assuring the correct mixing of the residues. Furthermore, the fastening system of the tines, allows a slight customisation of the tine spacing and inclination.

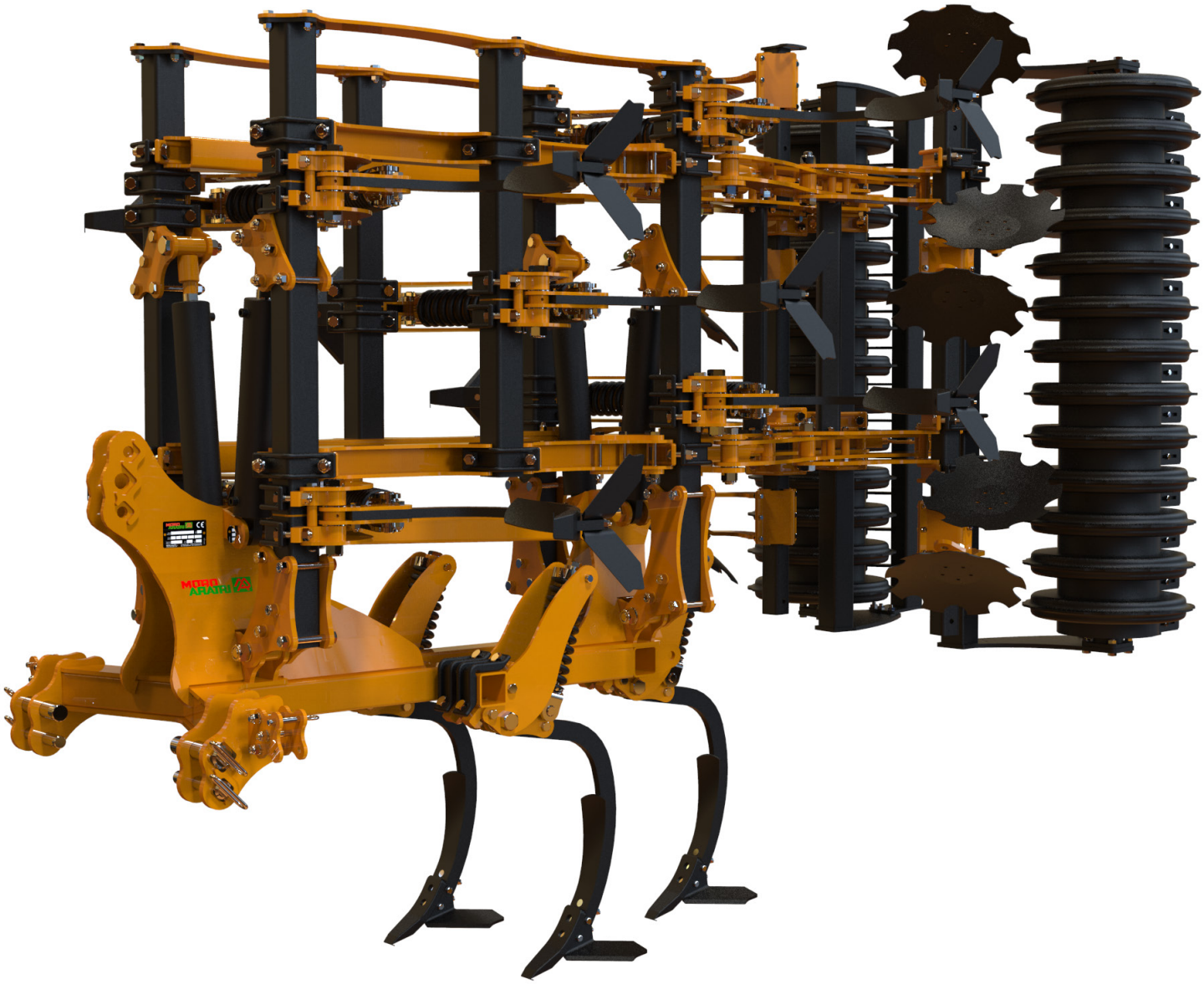
CRABBER can be equipped with different kinds of roller, suitable for dry, wet or stony soils. All the rollers are equipped with a depth control adjustment and a row of adjustable levelling discs.
The compact design allows the cultivator to have an optimal center of gravity both during working or transporting.



CRABBER X

The “CRABBER X” cultivator is available in a 13 tine version. The double 180° folding system allows for a reduced width of 2.55 meters, facilitating the transportation phase.

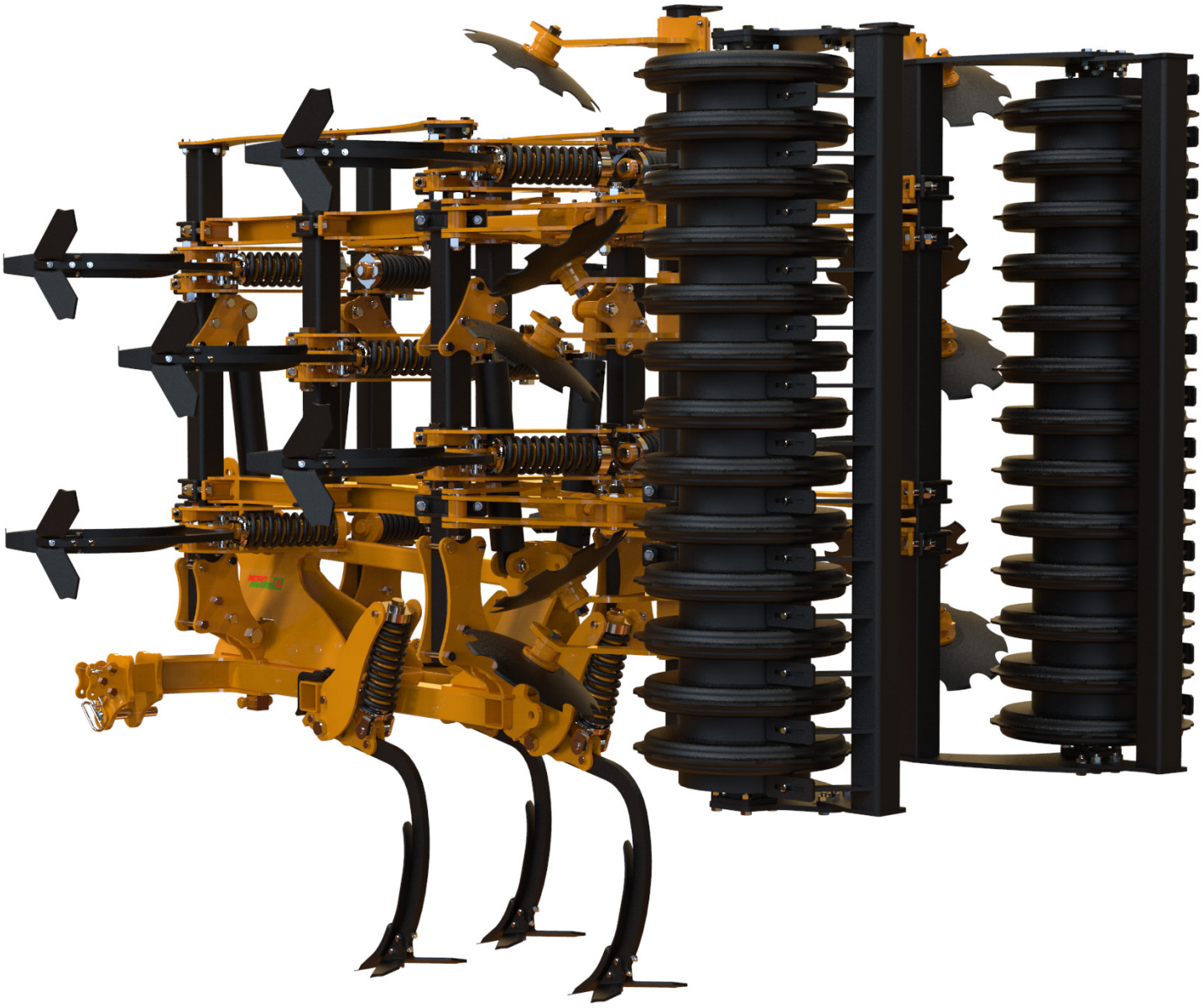
In a working position, the structure ensures maximum rigidity and robustness necessary for pairing with high-power tractors and for intensive use.



CRABBER X

250-320 HP

13 anchors



CRABBER

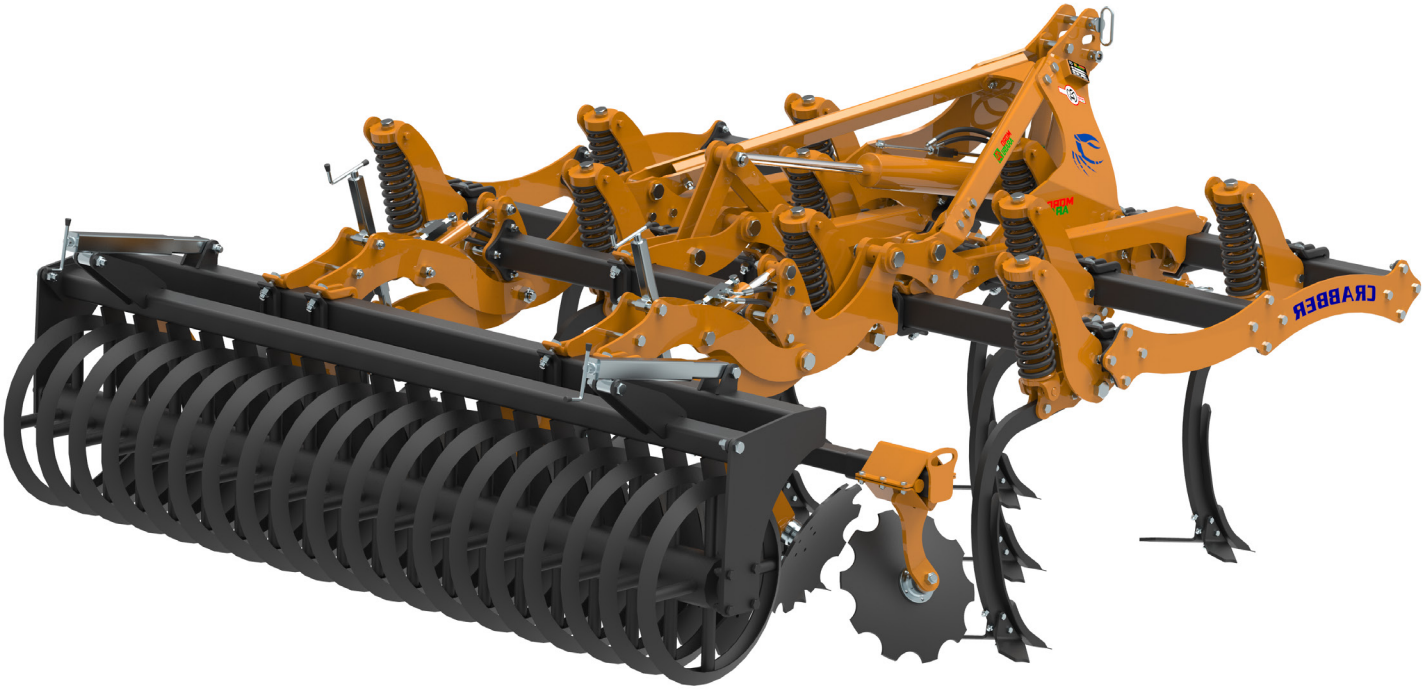
120-250 HP *10 anchors*





STONE SYSTEM





TECHNOLOGY



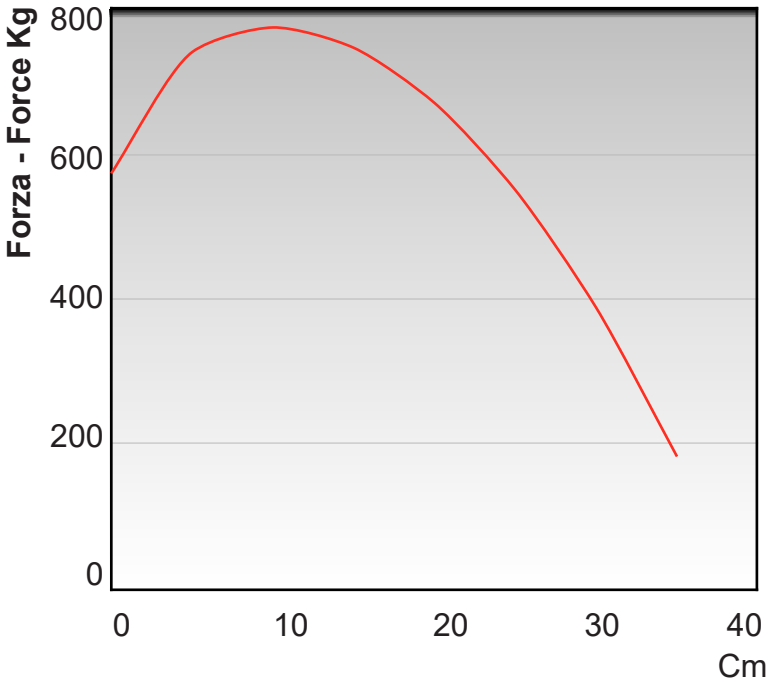
STONE SYSTEM

The MORO Aratri non-stop security system, protects the cultivator from damages when a body encounters an obstacle. This ensures a safe working also in stony soils.

The release is soft and without shocks, with a reduction of force as the tine rises.

The shape of the tines guarantees the optimal kinematic: in case of impact, the body is quickly guided outside of the soil, overcoming the obstacle.





UNIQUE

The force on the point, from 600 to 800 kg, allows a uniform work of the soil and a constant working depth, in different conditions and, last but not least, in presence of stones.

Special elastic steels enables also lateral movement: the STONE SYSTEM is able to absorb all the stresses and to ensure reliability and durability.



EFFICIENT:

The STONE SYSTEM allows a non-stop working in stony soils
The two helicoidal springs let the tine to overcome obstacles and to quickly return in working position.



REAR VIEW:

STONE SYSTEM element in working position and in simulation of obstacle



TECHNOLOGY

COMPACT SYSTEM

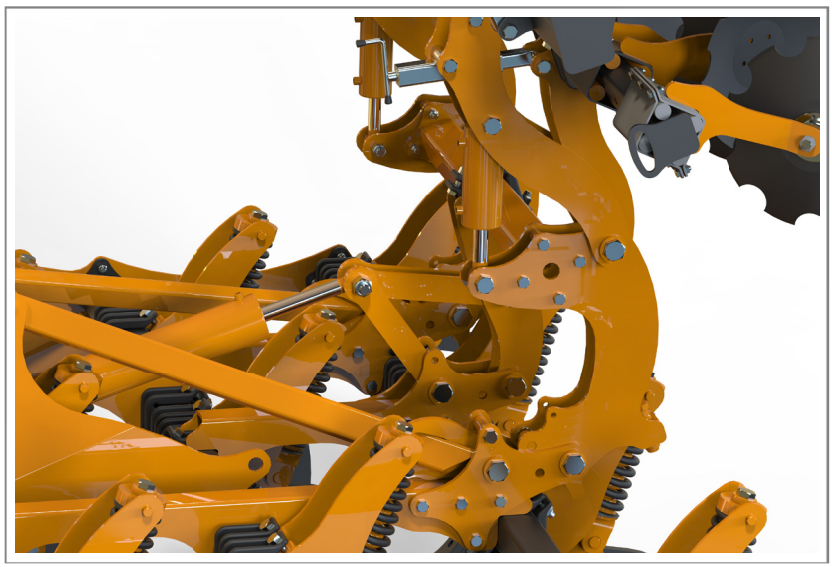




COMPACT SYSTEM

It is the folding system designed by MORO Aratri. Available on request, not only it reduces the longitudinal encumbrance of the cultivator during transport, it also allows to significantly lighten the load on the tractor lift system.
By operating the hydraulic distributor of the tractor, the hydraulic jacks perform all movements.

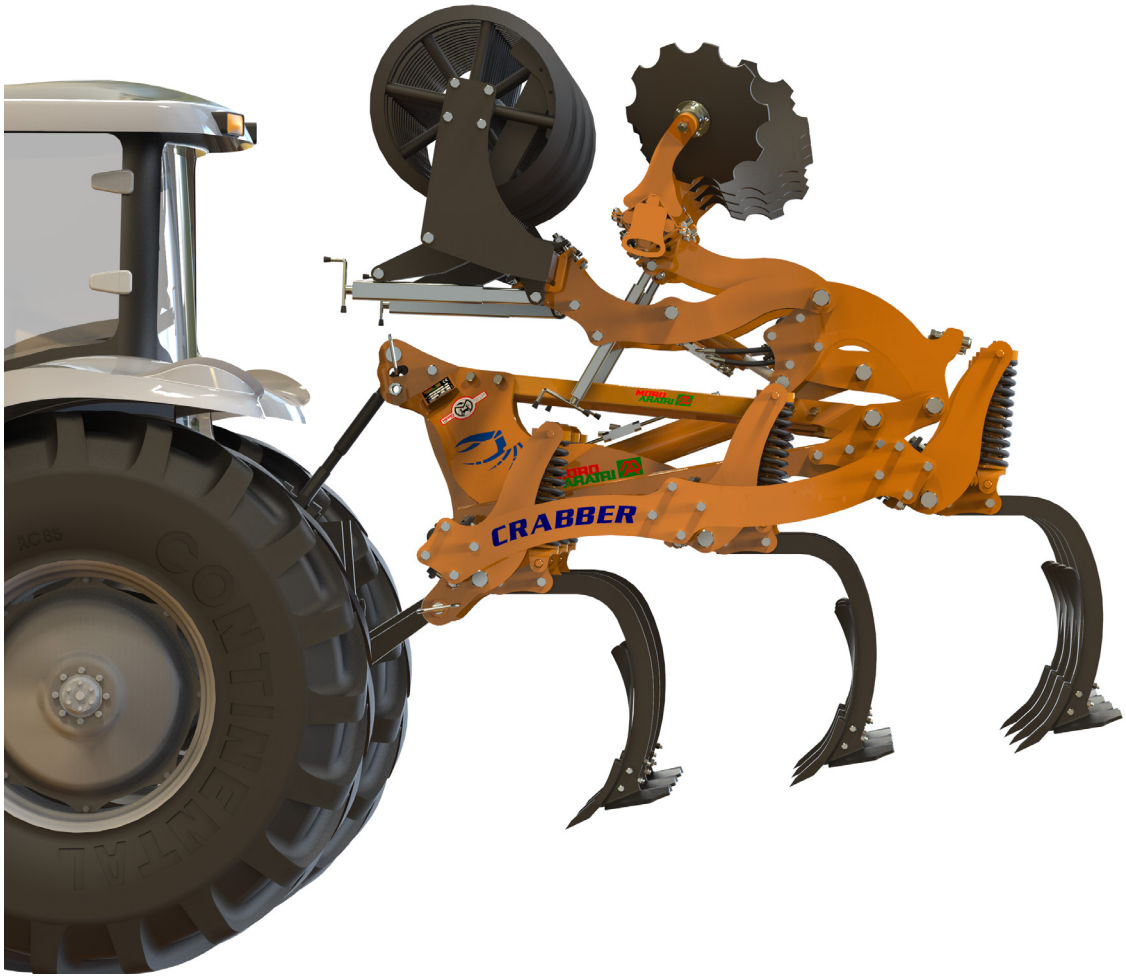
At the end of cycle, the hooks automatically take action to ensure the structural continuity and the perfect alignment of the frame.



The particular rods system allows the group discs\ roller to rotate more then 90 degree. Thus, the cultivator center of gravity is in a very advantageous position, lowering the burden on the tractor lifting system, and facilitating the road transport.

The whole system is assembled with bolts and, in case of need, the disassembly of the parts does not require demanding operations.

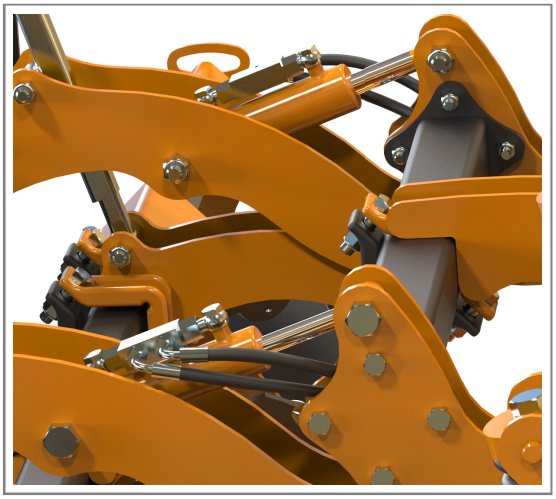
Even after intensive use, the coupling accuracy is not compromised.



Coupling of elements to the frame are made by bolts with 10.9 class, avoiding welded joints.



ADJUSTMENTS



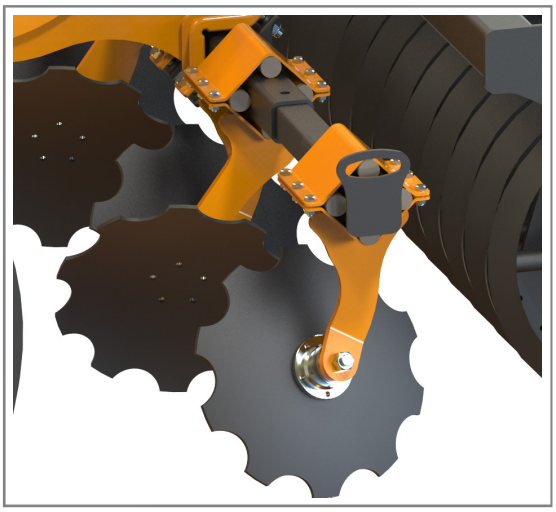
WORKING DEPTH

The working depth can be adjusted continuously by means of 2 double effect hydraulic jacks.



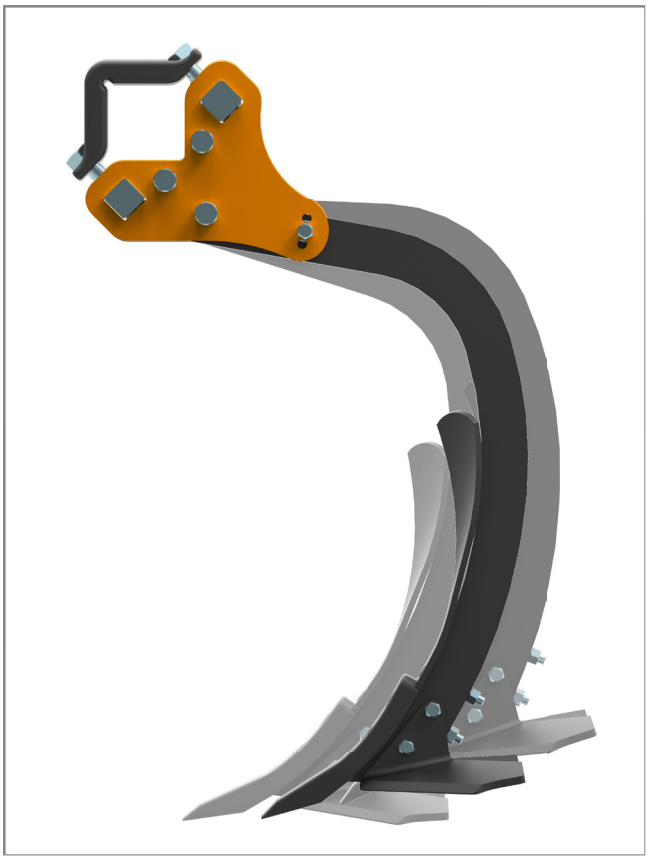
LEVELLING DISCS \ 1

The working depth of the levelling discs can be continuously adjusted by means of 2 dedicated adjusters.



LEVELLING DISCS \ 2

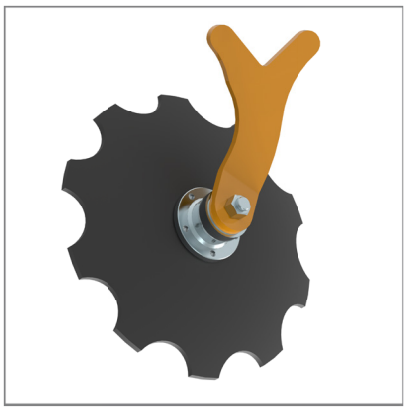
The 2 external discs can be adjusted separately. By removing the pin and thanks to a comfortable handle, the discs can be closed during the road transport.



3 TINE POSITIONS

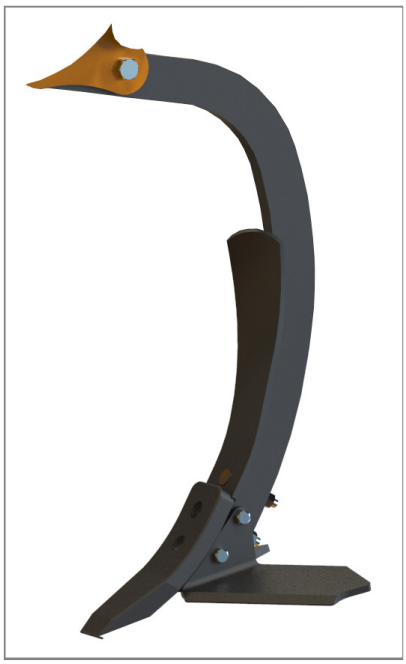
The tine equipped with shear bolt, can be adjusted in 3 different positions. This allows to personalize the angle of penetration into the soil, and to adapt the CRABBER to different conditions.

STANDARD OPTIONAL



DISCS

Each CRABBER model is equipped with a row of 8 concave levelling discs, placed in opposite pairs.
The opposite inclinations, matched with the concave discs, allows the levelling of the soil previously worked by the tines, thus avoiding an uneven work and the formation of furrows.



TINE

Each tine is composed by 3 parts which are completely replaceable:

- hardened steel point
- 2 lateral wings
- soil guide plates

CRABBER tines are studied for a low power absorption, which allows a fuel consumption optimisation.



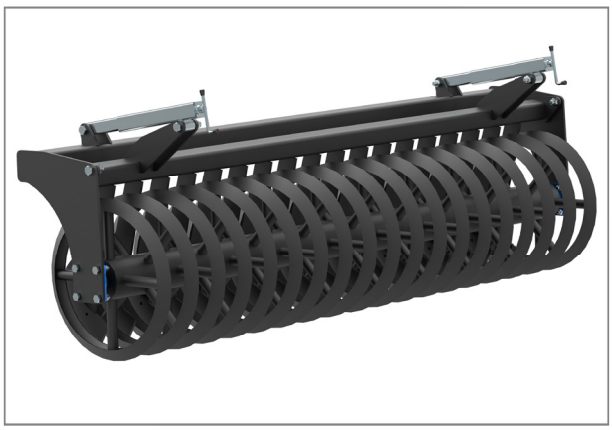
SHOCK ABSORPTION LEVELLING DISCS

- The concave disc is equipped with four shock absorption rubber elements with 40 mm diameter, which protect the discs against collisions with objects.

- A seal provides protection to the bearings which are therefore maintenance-free.

- Special elastic steels give to the disc supports a lateral flexibility, which is able to absorb all the stresses and to ensure reliability and durability.

ROLLERS



The ring roller is equipped with coulters . Thanks to the dedicated adjuster, it is possible to regulate the distance of the coulters from the roller.



RING ROLLER - RN

The wedge-like rings make an excellent crumbling and a strip compression, providing the drainage of the water. The coulters keep the roller clean from residues. Suitable for light soils without stones.
WEIGHT: 520 kg (3000mm)
DIAMETER: 615 mm





DISC ROLLER - RD

Discs cut and compress the soil providing a better water absorption. Suitable for stony and wet soils, with abundant residues.

OPTION 1
WEIGHT: 625 Kg (3000 mm)
DIAMETER: 600 mm

OPTION 2
WEIGHT: 495 Kg (3000 mm)
DIAMETER: 530 mm



CAGE ROLLER - RA

Bars provides excellent packing. Suitable for dry and non-sticky soils.
WEIGHT: 350 kg (3000 mm)
DIAMETER: 600 mm
N. BARS: 10

TECHNICAL DATA

CRABBER							CRABBER X			
MODEL	NUMBER OF TINE	WORKING WIDTH m	WORKING LENGHT m	TRANSPORT WIDTH m	TRANSPORT LENGHT m	INTER-TINE DISTANCE cm	UNDERBREAM CLEREANCE cm	WEIGHT Kg	POWER HP	POWER MAX*
CRABBER 400 X	13	4,00	3,80	2,55	3,80	30	85	2260	250-310	320

CRABBER							CRABBER			
MODEL	NUMBER OF TINE	WORKING WIDTH m	WORKING LENGHT m	TRANSPORT WIDTH m	TRANSPORT LENGHT m	INTER-TINE DISTANCE cm	UNDERBREAM CLEREANCE cm	WEIGHT Kg	POWER HP	POWER MAX*
CRABBER 300	10	3,00	3,60	3,00	3,60	30	85	1330	120-240	250

STONE SYSTEM

CRABBER Stone System							CRABBER X			
MODEL	NUMBER OF TINE	WORKING WIDTH m	WORKING LENGHT m	TRANSPORT WIDTH m	TRANSPORT LENGHT m	INTER-TINE DISTANCE cm	UNDERBREAM CLEREANCE cm	WEIGHT Kg	POWER HP	POWER MAX*
CRABBER 400 X Stone	13	4,00	3,80	2,55	3,80	30	85	2820	250-310	320

CRABBER Stone System							CRABBER			
MODEL	NUMBER OF TINE	WORKING WIDTH m	WORKING LENGHT m	TRANSPORT WIDTH m	TRANSPORT LENGHT m	INTER-TINE DISTANCE cm	UNDERBREAM CLEREANCE cm	WEIGHT Kg	POWER HP	POWER MAX*
CRABBER 300 Stone	10	3,00	3,60	3,00	3,60	30	85	1760	120-240	250

V 3.0 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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