

WARRIOR

IN FURROW MOUNTED PLOUGH WITH HYDRAULIC
FURROW WIDTH ADJUSTMENT

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MORO
YOUR OWN FURROW



WARRIOR

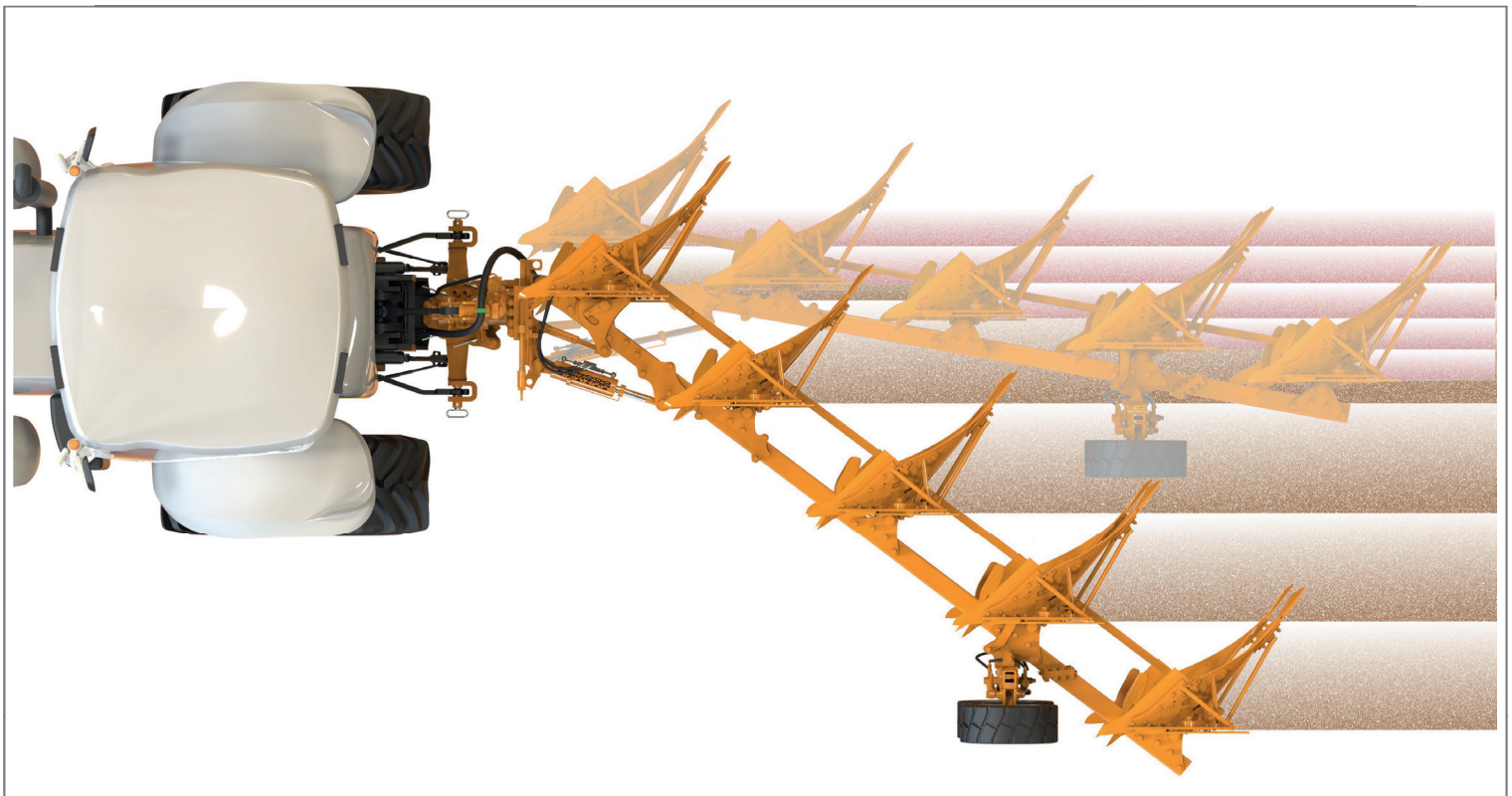
It is the innovative line of mounted ploughs, equipped with hydraulic working width adjustment, available in versions with 2 to 6 bodies. Advanced CAD software is used for design and structural analysis of these machines, with simulated performance and fatigue testing. The chassis of the Warrior plough, like all the other structural parts, is made of special steel, with a very high yield load.

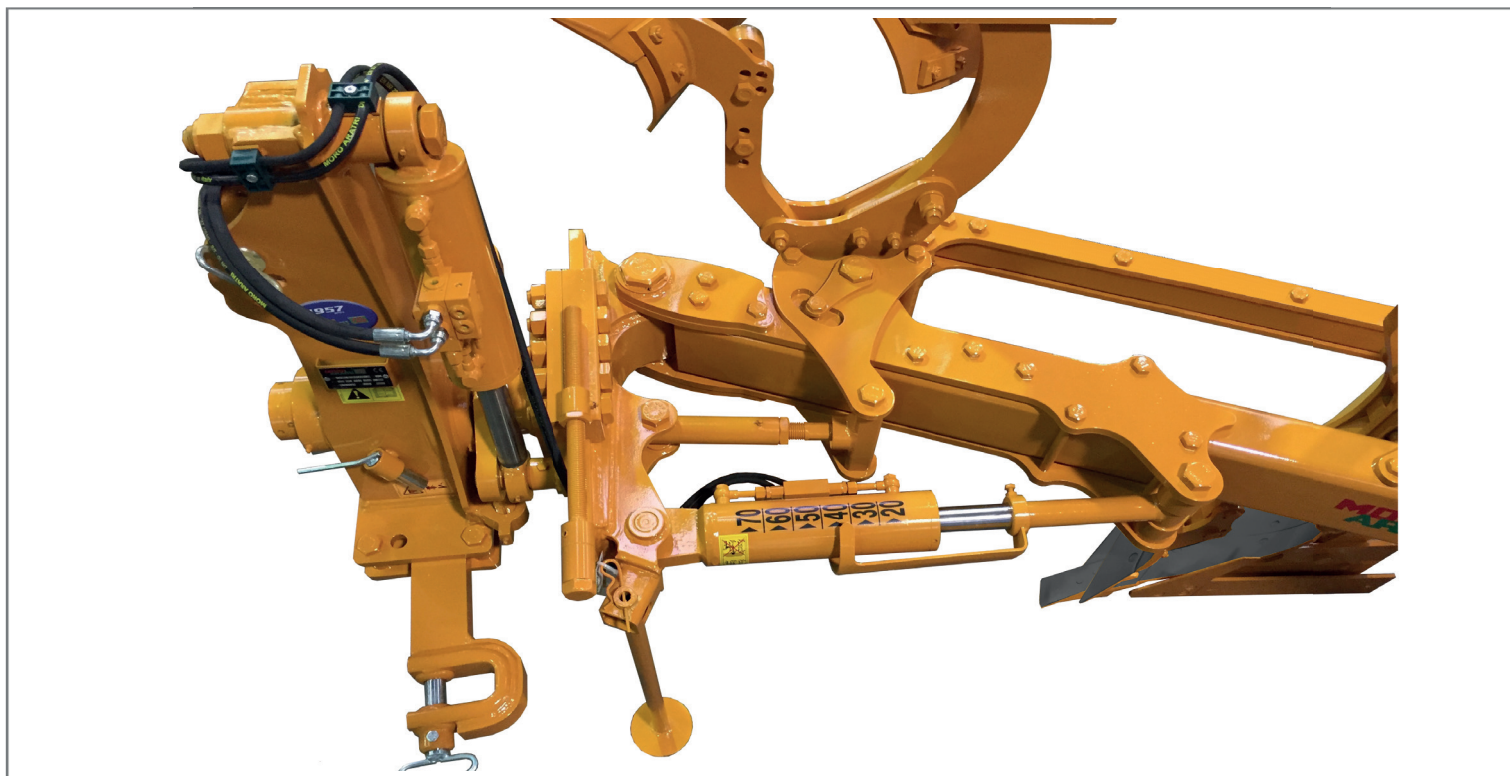


HYDRAULIC WIDTH ADJUSTMENT

Equipped with a unique hydraulic width adjustment, the Warrior ploughs allow the operator to determine and set the working width, according to different soil and climatic conditions. Each body can be continuously and simultaneously adjusted from 25 cm to 70 cm, maintaining the correct alignment and tilt of the working bodies.

The Hydraulic adjustment can be used during the working stage, in order to facilitate finishing operations on fields of irregular shape, when ploughing headlands or working around obstacles such as trees or telephone poles etc.



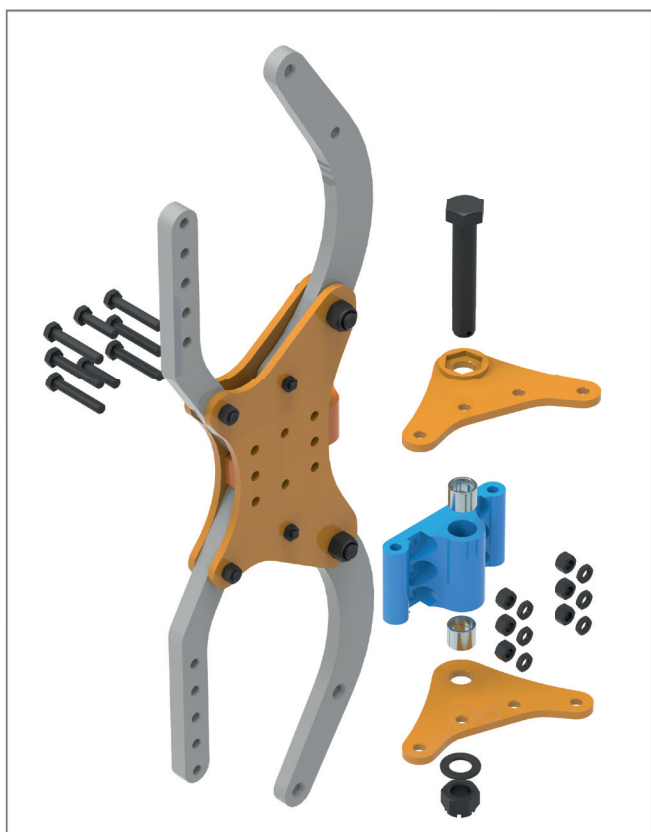


SMOOTH WIDTH ADJUSTMENT

By means of a double acting hydraulic cylinder, it is possible to adjust the working width continuously while working, remaining comfortably seated in the driver's seat.

AUTO-CENTERING

On request, it is available the system with two memory functions: automatic alignment of the frame during the turn over and adjustment of the working width. The frame is pivoted and rotated, then re-adjusted to the pre-selected furrow width.



THE CORE OF THE ADJUSTMENT

The rotating movement of the system is entrusted to special mono-blocks in steel, without joints or welds, which hold special anti-wear bushings, ensuring high durability.



STONE SYSTEM

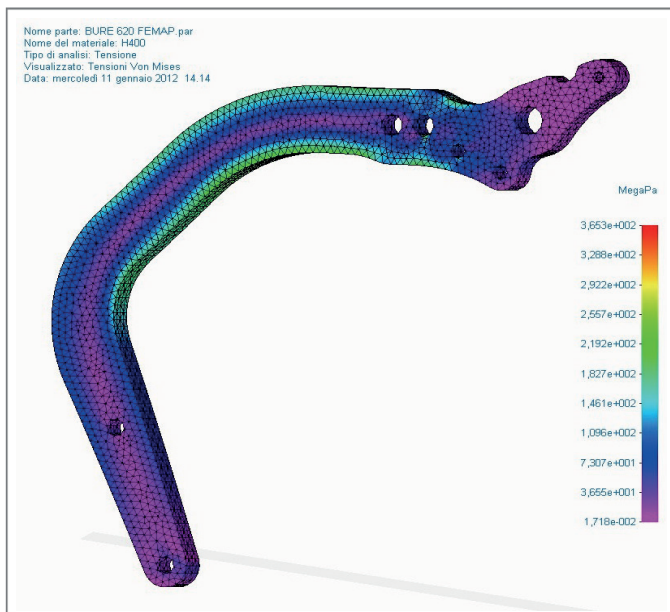
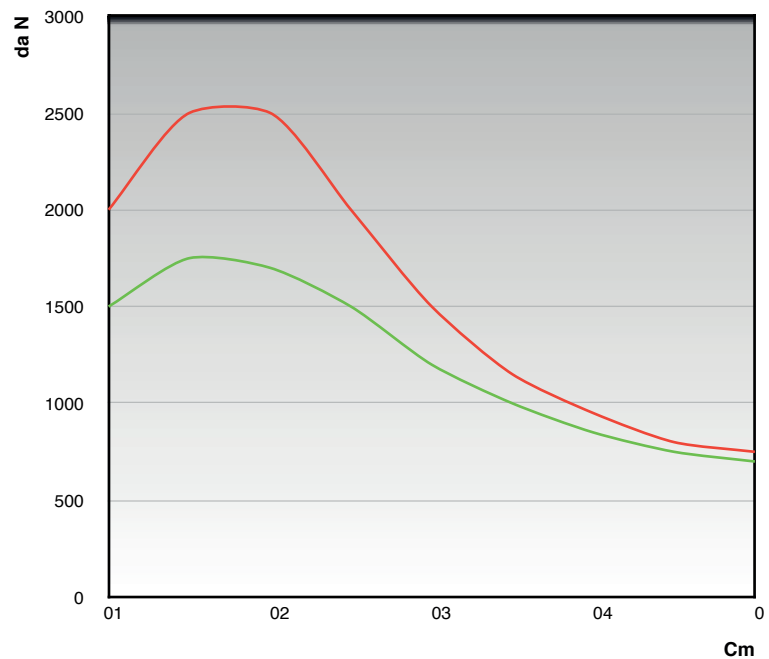


STONE SYSTEM

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

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

The triggering pressure is adjustable, thus allowing the ploughing both in tenacious and light soils, avoiding the extraction of stones.



UNIQUE

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

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

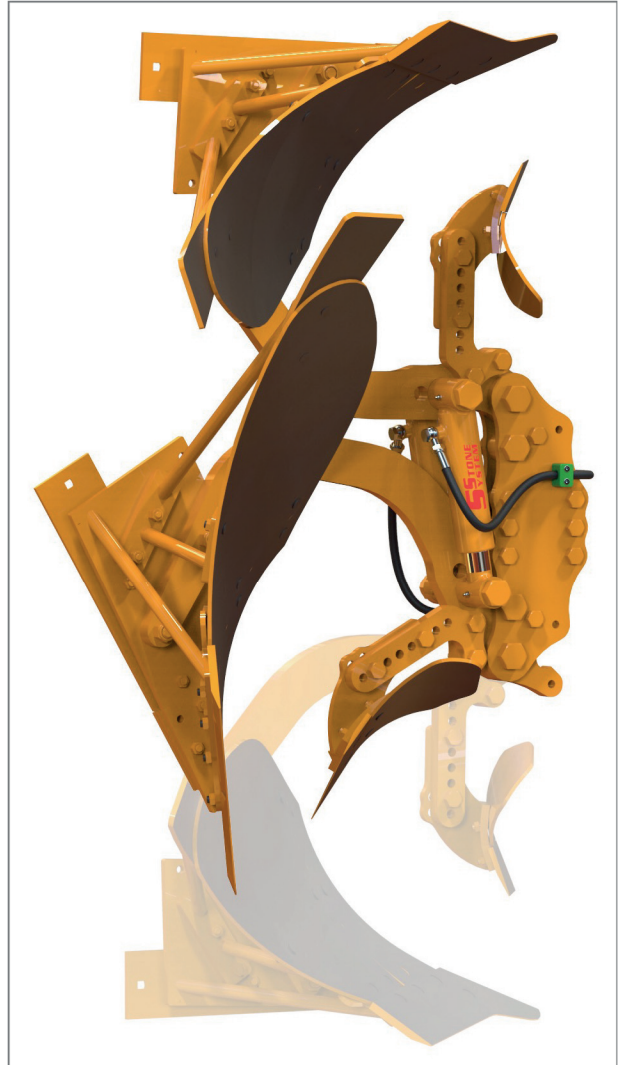


PATENTED

Each STONE SYSTEM body is provided with a couple of hydraulic jacks which allow the system to work.

Bodies are fixed with bolts to the chassis, avoiding joints and connecting rods that could affect the reliability of the plough.

STONE SYSTEM element
in working position and in
simulation of obstacle →



The constructive solution to entrust the delicate task of safeguarding the structure to a battery of accumulators, in comparison to a single accumulator, represents an important advantage in terms of reliability.

The WARRIOR STONE SYSTEM is able to continue ploughing even in case of failure of one or more accumulators. Moreover, it is possible to exclude the hydraulic device and add a couple of shear bolt.

COMPACT SYSTEM



COMPACT SYSTEM

It is the folding system invented by MORO Aratri. Available on request, not only it reduces the longitudinal encumbrance of the plough during transport, it also allows to significantly lighten the load on the tractor lift system.

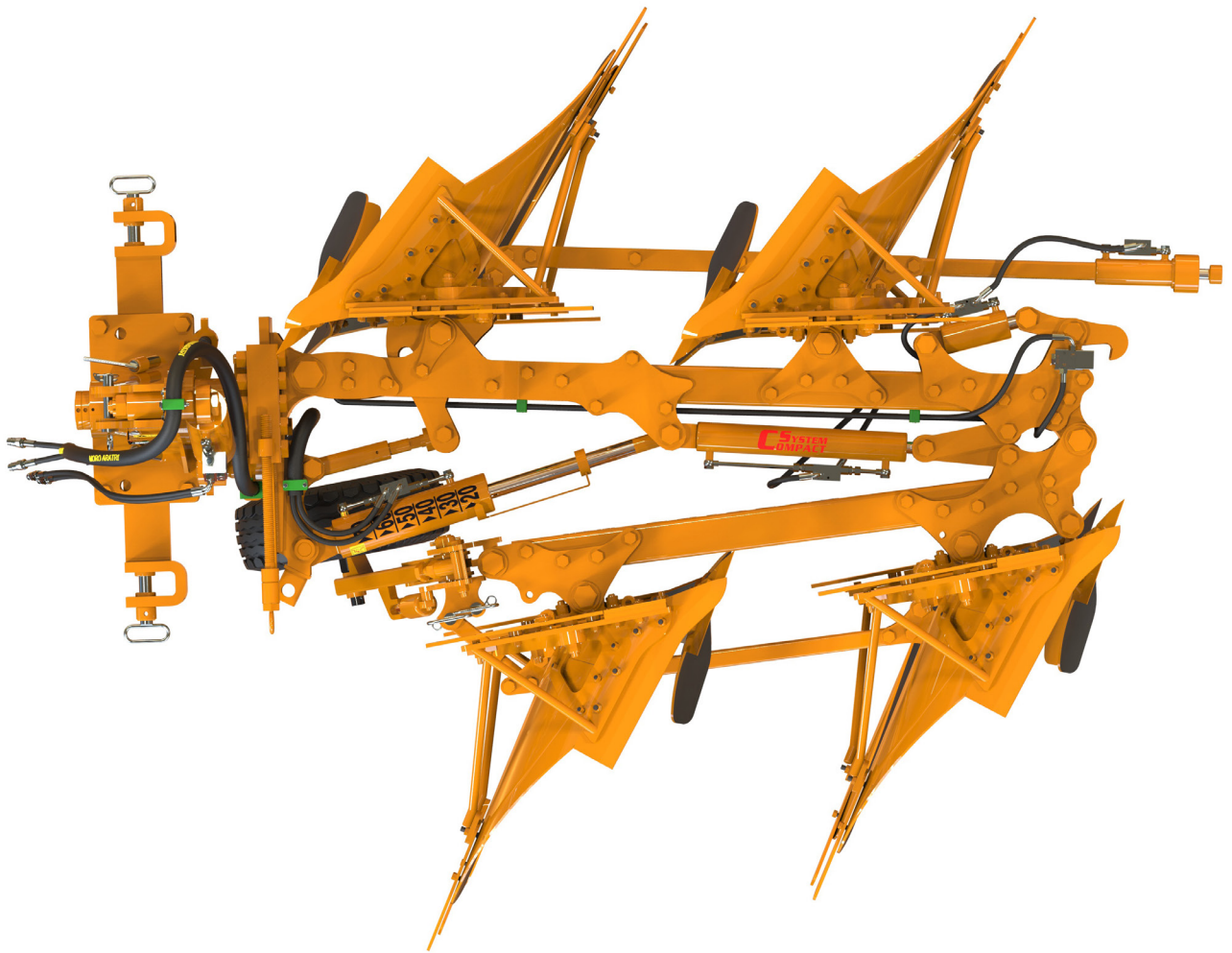
All locking and re-opening movements are automatic, without manual operations: operating the hydraulic distributor of the tractor, the hydraulic jacks perform all movements. At the end of cycle, the hooks automatically take action to ensure the structural continuity and the perfect alignment of the frame.

On the WARRIOR, the COMPACT SYSTEM requires no additional hydraulic valves, since it uses the same distributor of the hydraulic width adjustment.



The special coupling system at the end of the opening cycle is carried out with specific levers with backlash and adjustable limit switches. Even after intensive use, the coupling accuracy is not compromised.

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



The movements of the COMPACT SYSTEM take place within a mono-block of steel, connected by pins and bushings with a special anti-wear treatment. Coupling of elements to the frame are made by bolts with 10.9 class, avoiding welded joints.



TRANSPORT SYSTEM



TRANSPORT SYSTEM

The patented working and transport system for ploughs which definitively resolves the problem of road safety.



Movements from working to transport position and vice versa, are hydraulically actuated. Due to the unique steering head, during transport the plough acts like a tractor-trailer.



TRANSPORT SYSTEM is available both hydraulic or mechanical.



TRANSPORT SYSTEM

Designed, built and patented by MORO Aratri, TRANSPORT SYSTEM is highly regarded for its exceptional functionality.

Easy road transport, safety and quick conversion from working to transport position, are the characteristics that make this system unique.

Tested by many farmers, TRANSPORT SYSTEM is not just a trailing system, but a real working tool that allows to carry and use the plough at its best.

It is provided with the MORO Aratri special and patented steering head.

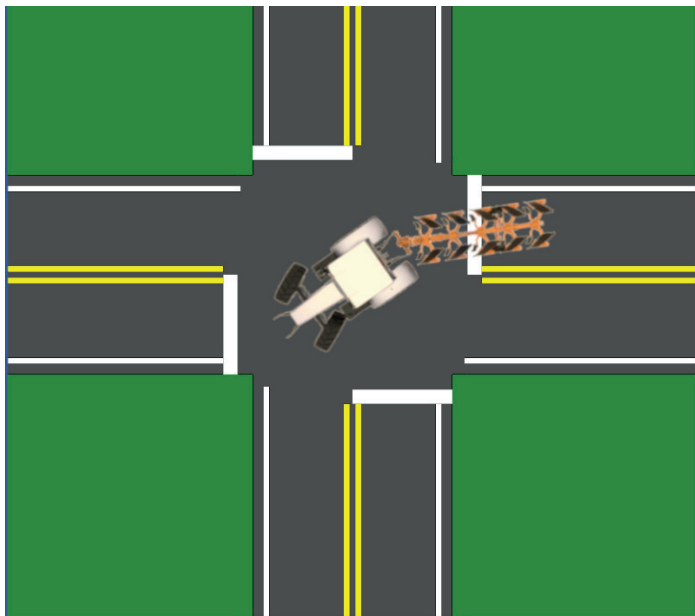


TRANSPORT SYSTEM 2.0



TRANSPORT SYSTEM 2.0

The evolution of the patented plow work and transport system that definitively solves the road safety issue.



All movements are carried out hydraulically

1. From the working position to the transport configuration and back
2. Working depth adjustment

Thanks to the special steering head, the plow behaves like a trailer during transport.

TECHNOLOGY

TRANSPORT SYSTEM 2.0



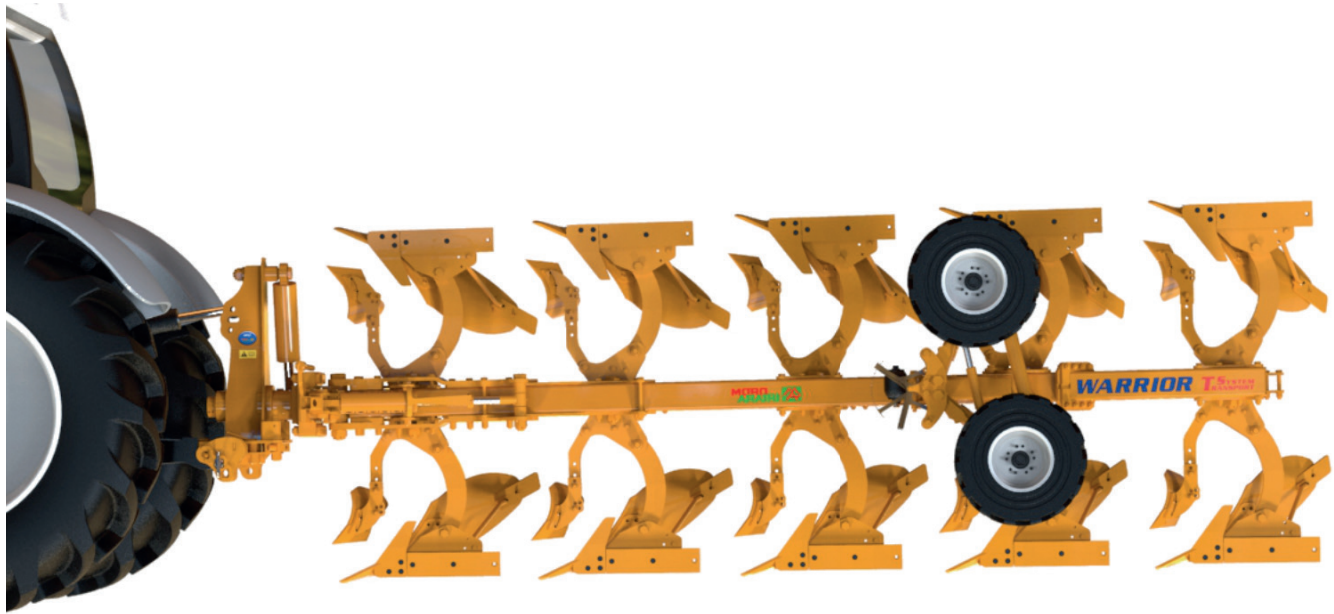
TRANSPORT SYSTEM 2.0

The working depth adjustment is quick and precise.

The Transport System 2.0 can be equipped with large-diameter wheel



TRANSPORT SYSTEM 2.0



ROAD APPROVAL

The plow equipped with the Transport System can be approved for road use.

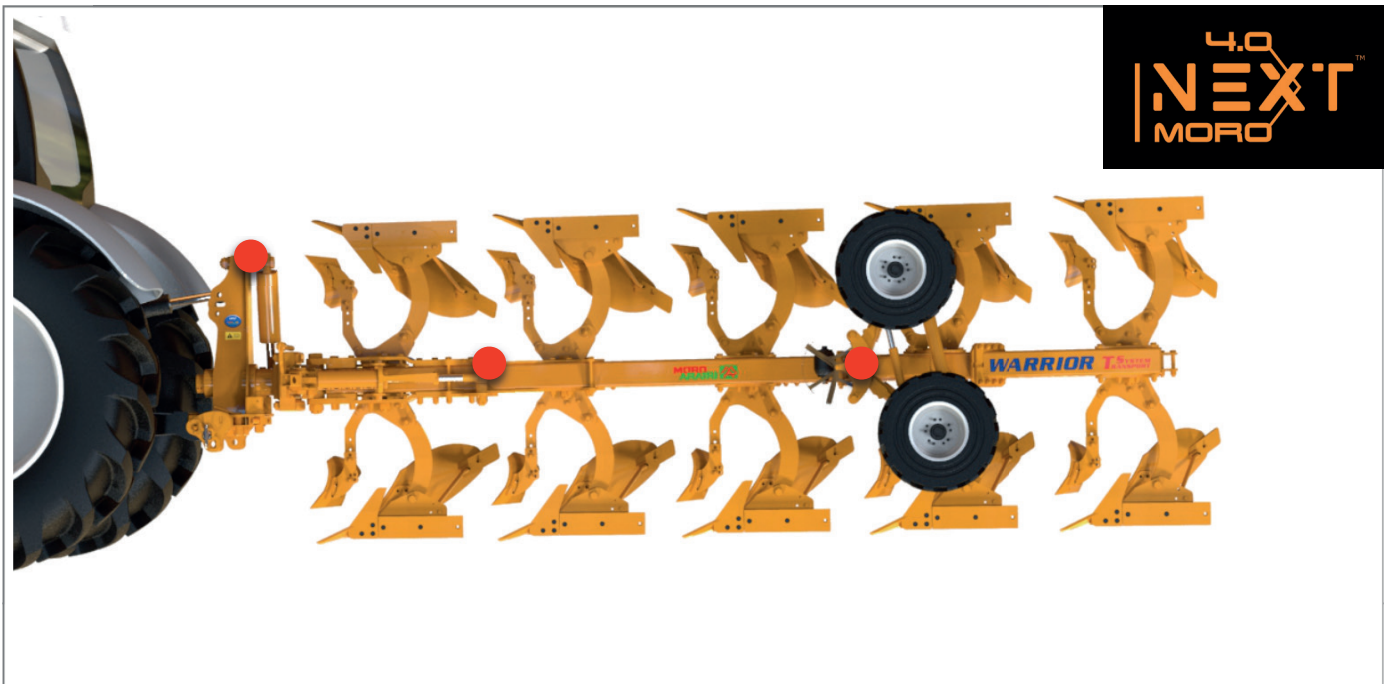
This classifies the plow as a towed implement, as required by the "Mother Regulation," making it compliant with individual national regulations throughout the European Union

TECHNOLOGY



THE SENSORY PLOUGH

Equipped with special sensors and interconnected, the plough becomes SMART.



GPS



CLOUD



**USER
REGISTRATION**



**WORLDWIDE
CONNECTIVITY**



**WORKING
DEPTH**



**WORKING
WIDTH**



**ON LAND
OFFSET**



TILT

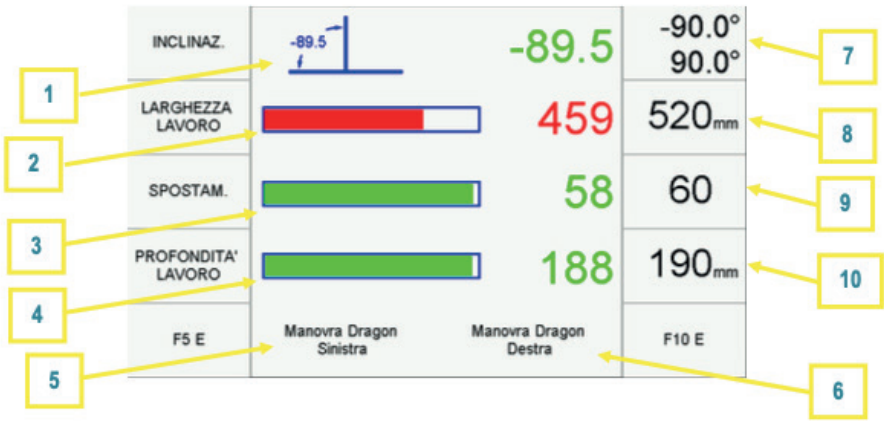
MORO NEXT

SYSTEM FEATURES

Moro Next is an integrated system that allows you to visualize data from the movements of the Moro plow range and interface with a web environment, enabling remote access and data modification.

The main features of the system are:

- TERA7 Control: System management, data entry, and display of plow parameters (Inclination, Depth, Working Width, and Out-of-Furrow Adjustment).
- CAN Live System: Data collection and transmission to the IT InTouch system for visualization.
- InTouch Service: Cloud database, system management, planning, and remote programmi.



1. Inclination measurement	6. Description sequence set F10
2. Working width measurement	7. Desired inclination value (right & left)
3. On land shifting measurement	8. Desired workinh width value
4. Working depth measurement	9. Desired on land shifting value
5. Description sequence set F5	10. Desired working depth value



MOULDBOARDS



STEEL

Boron steel mouldboard extremely wear resistant, for a precise and low power absorption ploughing.

Various models for a working depth ranging from 16 cm to 100 cm. Also available in multi layer steel plate.

(for further information please contact the sales network)



SLATTED

Boron steel slatted mouldboard for sticky soils. Excellent crumbling.

Various models for a working depth ranging from 26 cm to 50 cm. Synthetic version available.

(for further information please contact the sales network)



SYNTHETIC

Plastic mouldboard for wet and sticky soils without stones. It allows the soils to flow with less effort.

Various models for a working depth ranging from 16 cm to 100 cm.

(for further information please contact the sales network)



SCANDIC

Helicoidal mouldboard for a low power absorption ploughing. Specifically designed for the north european markets and for rice fields. Various models for a working depth ranging from 16 cm to 30 cm.

Synthetic version available.

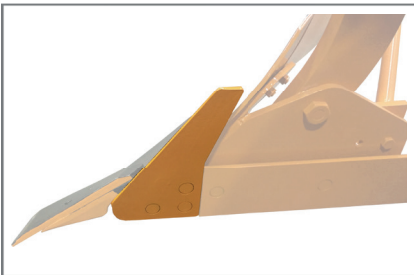
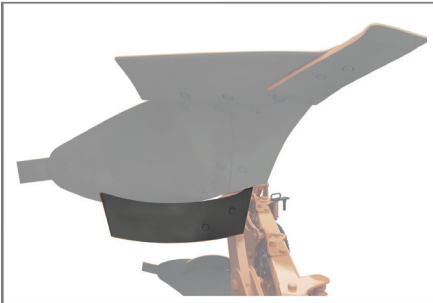
(for further information please contact the sales network)

ACCESSORIES



SKIMMERS

Rice field / Maize - Synthetic - Steel



TRASHBOARDS

Available on all the plough bodies, for ploughing without skimmers.

DISC COULTER

Smooth or scalloped coultter disc, with 500 mm diameter

Easy to set in every soil condition.

Non-stop version available.

KNIFE COULTER

Available on all the plough bodies

EXTRA LARGE LANDSIDE

For a better stability of the plough. Available on all the plough bodies, it can be turned for an efficient use of the material.

ACCESSORIES



SHARES

Made of high-quality boron steel, heat-treated and wear-resistant, MORO shares ensure excellent penetration in any type of soil.

Available with:

- Reversible point
- Premium tungsten point
- 450 mm length (standard)
- 1650 mm length



PRECISION JOINT

On request, it is possible to add a precision joint which allows the addition or the removal of the last plough body, making the plough extremely versatile.

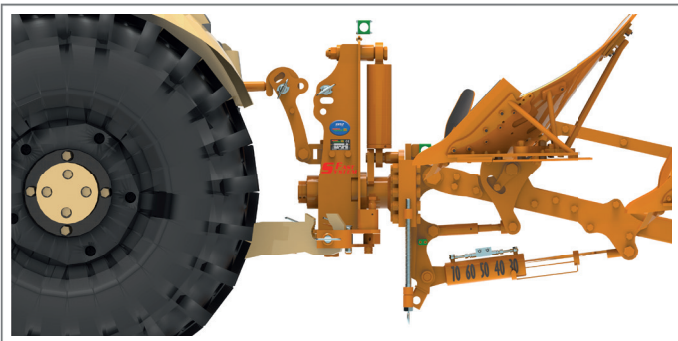


QUICK ADJUSTEM FOR SKIMMER

Certain skimmer models can be equipped with quick adjustment.

(For more information, please contact the sales network.)

ACCESSORIES



SINGLE DEPTH WHEEL

Depth wheel with hydraulic shock absorber, adjustable via turnbuckle. Positioned on the last body and mountable on every plough model.

DUAL DEPTH WHEEL

Adjustable dual depth wheel. Positioned on the penultimate or last body and mountable on every plough model.

WORKING AND TRANSPORT WHEEL (SINGLE/DOUBLE FORK)

A hydraulically cushioned working wheel with depth adjustment via a regulator.

Positioned on the last body and can also be used as a transport wheel on the road. Starting from the four-furrow model, it can be mounted on the second-to-last body.

ARTICULATED TOP LINK

Patented and designed by MORO Aratri, the special FAST SYSTEM accessory is available on the TRANSPORT SYSTEM headstock. During the conversion from working to transport position, the top link is freed without detaching it from the plough.

**FAST
SYSTEM**

HYDRAULIC INCLINATION ADJUSTMENT

The plough can be equipped with a turnover cylinder that enables adjustment of its inclination

This cylinder also stores the set position, eliminating the need for readjustment after each turnover.

MOTHER REGULATION



KIT MOTHER REGULATION ROAD APPROVAL

For plows equipped with the Transport System, the kit includes:

- Fast System
- Lighting system with signal panels
- Side reflectors
- Safety locks
- Share protections
- Chocks

WORKING WIDTH

BODY SPACING cm	WARRIOR cm
90	17-58
95	18-60
100	18-62
105	19-65
110	20-68
115	21-71
120	22-74
125	23-77
130	24-80
135	25-83
140	26-86

SPECIFIC VERSIONS



For specific needs, the 2 and 3 furrow ploughs can be equipped with an hydraulic swift device, which allows a perfect field finishing, even in case of obstacles.

Maximum excursion: 95 cm.



← FINISHING

The WARRIOR plough is equipped with a specific reversible wheel with hydraulic shock absorber and adjustable depth, which can be easily placed in finishing position.

IN FURROW →



TECHNICAL DATA

6 FURROW

W6

MODEL	BODY SPACING cm	WORKING WIDTH cm	UNDERBEAM CLEREANCE cm	BEAM CROSS SECTION mm	WEIGHT Kg	POWER	
						HP	MAX*
EXA 20A Warrior	110-120	Pag. 21	84	200x120	3200	400-500	430
EXA 18A Warrior	100-105	Pag. 21	84	200x120	3000	330-420	450
EXA 16A Warrior	95-100	Pag. 21	83	150x120	2650	270-320	350
EXA 13A Warrior	95-100	Pag. 21	73	150x120	2380	170-240	270

5 FURROW

W5

MODEL	BODY SPACING cm	WORKING WIDTH cm	UNDERBEAM CLEREANCE cm	BEAM CROSS SECTION mm	WEIGHT Kg	POWER	
						HP	MAX*
PNT 20A Warrior	110-120	Pag. 21	94	200x120	2950	340-420	450
PNT 18A Warrior	100-110	Pag. 21	89	200x120	2600	270-350	370
PNT 16A Warrior	95-105	Pag. 21	89	150x120	2300	200-260	280
PNT 14A Warrior	95-105	Pag. 21	84	150x120	2000	170-210	230
PNT 13A Warrior	95-105	Pag. 21	78	150x120	1900	160-210	230
PNT 10A Warrior	90-95	Pag. 21	74	120x120	1550	140-150	160

4 FURROW

W4

MODEL	BODY SPACING cm	WORKING WIDTH cm	UNDERBEAM CLEREANCE cm	BEAM CROSS SECTION mm	WEIGHT Kg	POWER	
						HP	MAX*
QRV 22A Warrior	110-130	Pag. 21	94	200x200	2600	340-420	450
QRV 20A Warrior	110-120	Pag. 21	94	200x120	2350	280-350	370
QRV 18A Warrior	100-115	Pag. 21	89	200x120	2050	220-280	300
QRV 16A Warrior	100-110	Pag.21	89	150x120	1850	170-220	230
QRV 14A Warrior	100-110	Pag. 21	84	150x120	1650	150-180	190
QRV 13A Warrior	95-105	Pag. 21	78	150x120	1550	130-170	180
QRV 12A Warrior	90-105	Pag. 21	84	120x120	1450	130-150	160
QRV 10A Warrior	90-100	Pag. 21	80	120x120	1300	120-140	150

3 FURROW

W3

MODEL	BODY SPACING cm	WORKING WIDTH cm	UNDERBEAM CLEREANCE cm	BEAM CROSS SECTION mm	WEIGHT Kg	POWER	
						HP	MAX*
TRV 20A Warrior	110-130	Pag. 21	94	200x200	2500	300-380	400
TRV 20AP Warrior	110-130	Pag. 21	94	200x120	2200	260-320	340
TRV 20A Warrior	110-120	Pag. 21	89	200x120	2000	230-270	290
TRV 18A Warrior	110-115	Pag. 21	89	200x120	1800	180-230	240
TRV 16A Warrior	100-115	Pag. 21	89	150x120	1600	150-180	190
TRV 14A Warrior	100-110	Pag. 21	84	150x120	1400	130-150	160
TRV 12A Warrior	100-110	Pag. 21	84	120x120	1260	110-130	140
TRV 10A Warrior	95-105	Pag. 21	80	120x120	1100	100-110	120
TRV 8A Warrior	90-100	Pag. 21	74	120x120	950	90-100	110

2 FURROW

W2

MODEL	BODY SPACING cm	WORKING WIDTH cm	UNDERBEAM CLEREANCE cm	BEAM CROSS SECTION mm	WEIGHT Kg	POWER	
						HP	MAX*
BVM 22A Warrior	120-140	Pag. 21	94	200x200	1950	210-260	270
BVM 20AP Warrior	120-130	Pag. 21	94	200x120	1800	180-210	220
BVM 20A Warrior	120-130	Pag. 21	89	200x120	1700	150-180	190
BVM 18AP Warrior	120-130	Pag. 21	94	150x120	1550	130-150	165
BVM 18A Warrior	110-120	Pag. 21	89	150x120	1400	120-140	150
BVM 16AP Warrior	110-120	Pag. 21	89	150x120	1250	100-120	130
BVM 16A Warrior	110-120	Pag. 21	84	150x120	1150	100-110	120
BVM 14A Warrior	100-120	Pag. 21	84	150x120	1050	90-100	110
BVM 12A Warrior	100-110	Pag. 21	84	120x120	950	80-90	100
BVM 10A Warrior	90-105	Pag. 21	80	120x120	900	75-80	90
BVM 8A Warrior	90-100	Pag. 21	74	120x120	800	70-75	80

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.

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