



KATIA PRO CAMILLA PRO



HEDGE CUTTERS

Professional hedge cutters

HEDGE CUTTERS

FLEXIBILITY AT WORK!

KATIA and **CAMILLA** are the new hedge cutters designed for contractors and road maintenance professionals' needs. These machines are the new benchmarks for productivity, reliability and safety! All technical solutions were studied to make the daily work and maintenance operations easy and safe.



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These machines are the synthesis of all Maschio group philosophy for innovation in landscape maintenance. All technical solutions offer great performance, absolute comfort and reduced operating costs.



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HEDGE CUTTERS

STRONG AND RELIABLE: THE IDEAL PARTNERS

The sturdy structure is a key point of these machines. The use of cast iron components, especially where mechanical stress is more intense, allowed Maschio to build strong machineries with a very fluent design. The rigid “boxed structure” frame allows a rational disposition of all electronic and hydraulic components for easy access and maintenance. The oil radiator is a standard feature; its position was carefully studied to maximize the heat exchange and reduce exposition to dust and debris.



Detail of the cast metal element on the first arm pivot.



Detail of the cast metal element for tilting safety.

The hydraulic circuit has been designed to get the best output cutting off all power losses. The twin cast iron gear pumps (cutting head + arm kinematics) are powerful and reactive. Each hose is protected by a spiral coating in most exposed points or by a carter along the arm sections.



The hardened bushings and the treated zinc-coated hinges can cope with heavier stresses for machine's longer operating life.



Once properly set, the special mechanical limiter prevents the arm to hit the tractor cab when the machine is closed in transport position. The device is adjustable by a tie-rod to adapt to all tractors.



The cutting head is available both with direct or belt drive. The cutting chamber double skin structure offers resistance and a long lifespan. The cast iron skids and carters make easier sliding of the head on any surface.



A special 3rd point connector that includes the anchorage of the two supplementary stabilizer brackets is available on demand. Its special design prevents any damage from accidental wrong lifting maneuvers.



A large diameter (152 mm) rear roller makes the cutting head progression easier on any land. The rotor cutting height is adjustable by a 6 intermediate position pin system.

HEDGE CUTTERS

SAFE AND PRECISE IN ANY CONDITION

KATIA and **CAMILLA** prevent any possible damage to themselves or to the tractor. A wide range of active and automatic safety devices reduces the risks and makes any job relaxing and safe. The cutting head oil circuit has a max-load valve that drops off the oil overpressure at any accidental rotor arrest. If the cutting head is clogging-up a RPM sensor stops the rotor when the revolution speed is lower than safety limit. Equally, if minimum RPM regime is not reached, the system stops the oil flow to the head when the rotor is started.

An electronic safety does not allow the spin sense inversion if the rotor is not totally still. Special spiral distribution of blades reduces all vibrations and makes the power delivery smoother. For a cleaner job specially in road maintenance activities, the turbulence produced by the blades drives out chopped residues from the right side.



Tilting nitrogen dampener



A second nitrogen dampener is connected to the cylinder moving the pivot of first arm. This solution reduces the cutting head weight to soil, making its progression smoother and faster.

Optional on **KATIA** and **CAMILLA**



The particular spiral arrangement of blades always guarantees a use with reduced vibrations and a smoother distribution of power; the turbulence generated inside the head naturally brings out the residual cut, ensuring maximum cleanliness, especially in road maintenance work.

To avoid any damage coming from impact with obstacles (poles, trees, kerbstones...) the arm has a tilting double safety. For smaller impacts an hydro-pneumatic nitrogen accumulator works as a dampener and brings back automatically the head to working position.

In case of worse troubles, a max-load valve drops-off the oil from tilting cylinder and the arm can swing back to overcome the obstacle. The upper bonnet on machine body protects the most delicate components like oil distributors, electronics and all wiring.



Oil temperature and level indicator



Piston pump suction filter



Oil distributor output filter



Bonnet



Rotor spiral blade distribution



Safety guard with quick release

CAMILLA PRO

A MULTIPURPOSE MACHINE!



Cutting a river bank: the 600T and 650T telescopic section allows to keep the same arm position and head angle when working on river banks or road trenches.



Cutting grass on road sides: the tractor is very close to the edge.

Due to optional range, the machines can be adapted to different purposes. Available configurations include: direct oil drive, belt drive, piston pump powered circuit and pruning head.

Cutting head with indirect belt drive

DP125



Cutting head with direct oil drive

D125

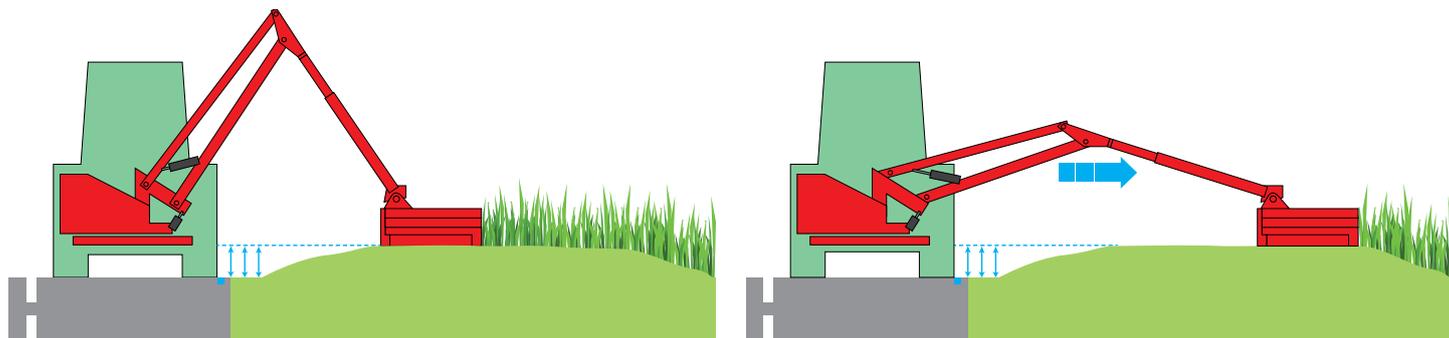


Camilla is extremely versatile. The special design with hydraulic adjustment of the first arm height **A** allows to easily perform a wide range of operations: from cutting the grass on a road edge, pruning a tree line to mulching a river bank.



Pruning a tree line: the head is at the top of its lifting range.

The parallelogram structure **B** on the first arm opens both sections with a single oil control, making everything easier! Moreover, this special design can keep the cutting head parallel and at constant height when the arm is opened. All the maneuvers to correct head positions will be reduced.



The first arm parallelogram design is a common feature on both **KATIA PRO** and **CAMILLA PRO** models.

KATIA PRO

ALWAYS A STEP AHEAD !



Cutting grass close to tractor wheel: the cutting head in advanced position can be very close to the tractor wheel. This makes the machine very compact at work, creating the less possible disturbance to road traffic.



Cutting a river side: keeping the cutting head parallel to the driving seat makes it easier to monitor the work and improves safety in all operations.



Heavy Duty: the machine works at best even in the most challenging conditions.

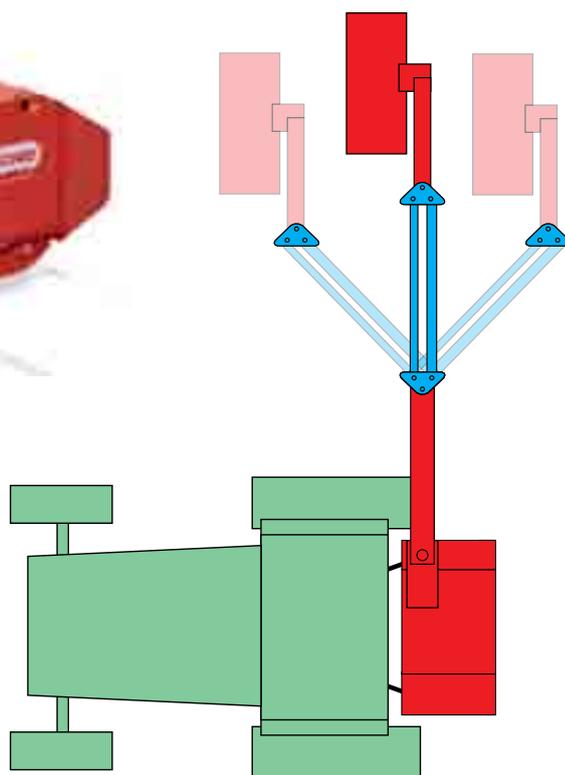
KATIA PRO has been designed to be intuitive and user friendly in all working conditions. The special hinging of the second arm allows to bring the cutting head forward in a very advanced position compared to the machine body. Possibility to have the cutting head parallel to the driving seat gives a full control on the work: no more need to turn continuously to monitor the head position and presence of obstacles. Working with **KATIA PRO** will be thus more comfortable and less stressing.



Cutting a tree line: even under these circumstances the advanced head helps the operator.

The first arm design **A** is exactly alike to **CAMILLA PRO**: the parallelogram structure allows the arm to open with a single movement and to shift laterally the head, keeping a uniform cutting height.

On the other hand, **KATIA PRO** distinctive trait is the linkage of the second arm **B** that allows the cutting head to shift frontwards or backwards. A pantograph system keeps the cutting head always perfectly aligned to the working direction.



HEDGE CUTTERS

USER-FRIENDLY TECHNOLOGY

The electronic components have been developed with an extreme care. A wide monitor allows to keep always under control all rotor functioning. Its interface is intuitive and easy to learn. The joystick which controls all the kinematics is available in 2 versions: proportional electro-hydraulic (JSPH) and proportional electric compensated versions (JSPE).



CAMILLA and **KATIA** are managed by a monitor that allows the operator to access all the machine functions and to monitor its correct operation. Control of electronic systems is fully operated in self-diagnostic mode: for any further problem it is possible to check all working parameters and make the troubleshooting process faster. To complete the range of most technological solutions, a "360° controller" is available on demand to make the hedge cutter control more intuitive and smooth.



Touchscreen monitor



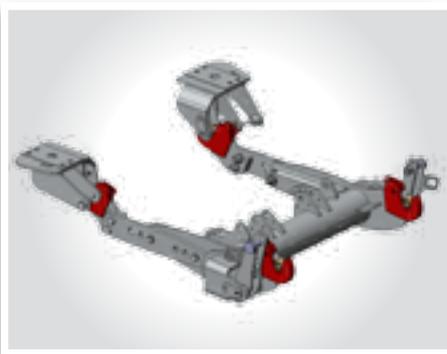
Self-diagnostic screen

LESS MAINTENANCE, MORE PRODUCTIVITY!

The oil tank is bolted to the frame so it is easier to repair or replace it if damaged, even if the protected position makes it very unlikely. A self-greasing system that drastically cuts all maintenance time and a super-silent motor that reduces noises during work are available on demand. To cut any kind of product, different types of blades can be installed on the rotor.



Centralized greasing system



Customizable quick-hitch



Super-silent motor



Bolted oil tank



Easy access heat exchanger in safe position



Blade 05



Hammer 20



Hammer 22



Blade 23



Blade 24



Blade 25

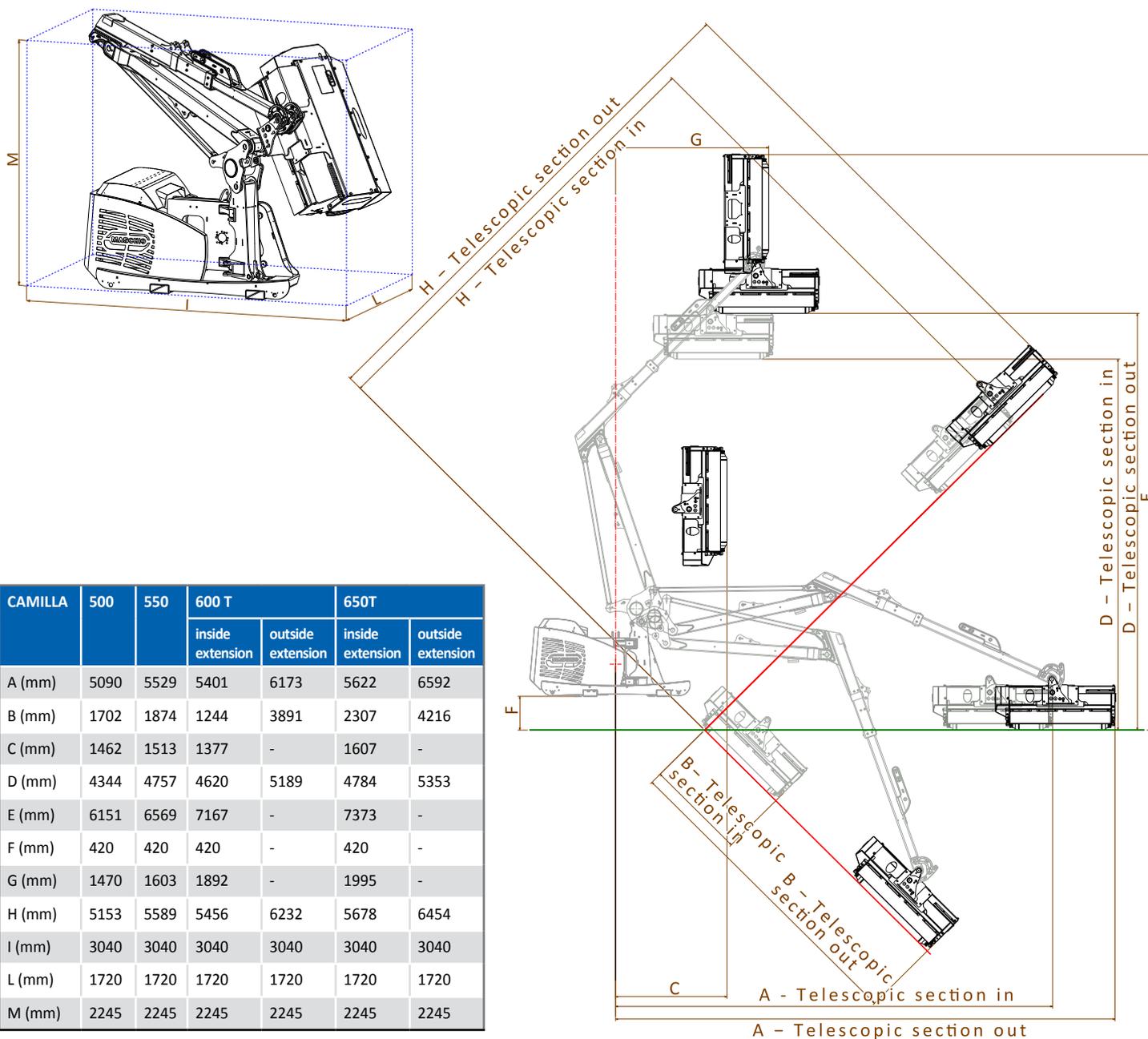
The blades for cutting heads are available in different types to match the requirement of different users.

- The articulated support makes **blade 05** the best choice for cutting grass on stony land.
- The **hammer 20** is a universal solution: suited for cutting grass, shrubs and wood.
- The **hammer 22** is more indicated for application on wood and small branches.
- The **blade 23** is specific to cut grass and shrubs.
- The **blade 24** is the best choice for cutting grass, ditch reed or shrubs: its use is not recommended on stony soils.
- The **blade 25** has been designed to cut shrubs and bushes on stony land.

TECHNICAL DATA

CAMILLA PRO

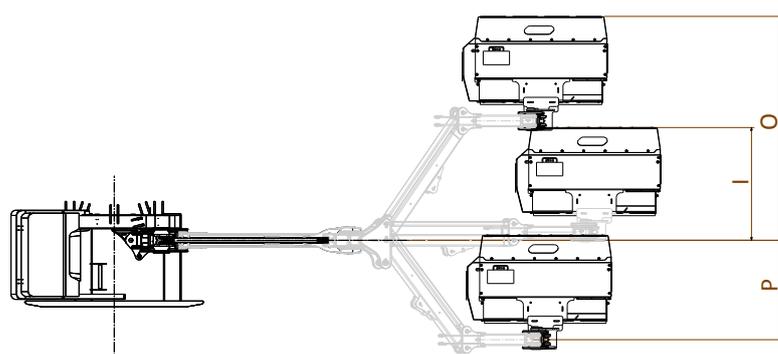
CAMILLA		500	550	600 T	650 T
Maximum side offset	(mm)	5050	5510	6130	6570
Head width	(mm)	1250	1250	1250	1250
Machine weight	(kg)	1550	1600	1680	1710
Minimum tractor weight	(kg)	3500	3500	3800	4000
Minimum tractor width	(mm)	2300	2300	2300	2300
Tractor power	(kW / HP)	80	80	80	80
Gear pump power	(kW / HP)	(33/45)	(33/45)	(33/45)	(33/45)
Piston pump power	(kW / HP)	(49.5/67.5)	(49.5/67.5)	(49.5/67.5)	(49.5/67.5)
Rotor	RPM	2700	2700	2700	2700
Oil (gear pump)	(liters)	170	170	170	170
Oil (piston pump)	(liters)	120	120	120	120



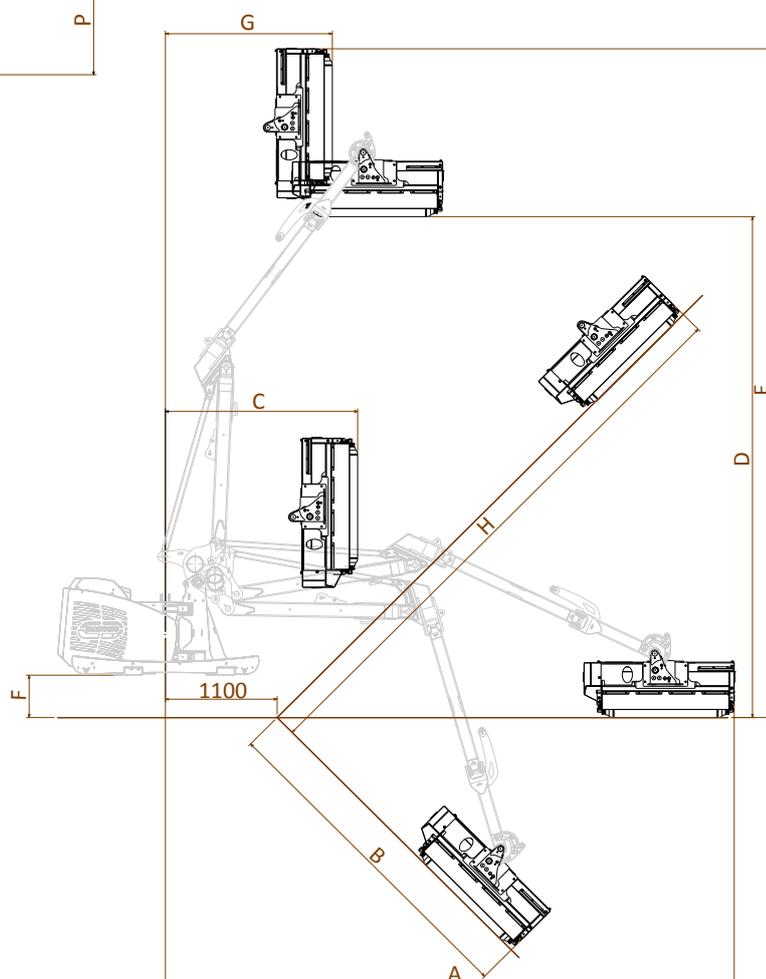
CAMILLA	500	550	600 T		650T	
			inside extension	outside extension	inside extension	outside extension
A (mm)	5090	5529	5401	6173	5622	6592
B (mm)	1702	1874	1244	3891	2307	4216
C (mm)	1462	1513	1377	-	1607	-
D (mm)	4344	4757	4620	5189	4784	5353
E (mm)	6151	6569	7167	-	7373	-
F (mm)	420	420	420	-	420	-
G (mm)	1470	1603	1892	-	1995	-
H (mm)	5153	5589	5456	6232	5678	6454
I (mm)	3040	3040	3040	3040	3040	3040
L (mm)	1720	1720	1720	1720	1720	1720
M (mm)	2245	2245	2245	2245	2245	2245

KATIA PRO

KATIA		550	600	650
Maximum side offset	(mm)	5510	6130	6570
Head width	(mm)	1250	1250	1250
Machine weight	(kg)	1600	1680	1710
Minimum tractor weight	(kg)	3500	3800	4000
Minimum tractor width	(mm)	2300	2300	2300
Tractor power	(kW / HP)	80	80	80
Gear pump power	(kW / HP)	(33/45)	(33/45)	(33/45)
Piston pump power	(kW / HP)	(49.5/67.5)	(49.5/67.5)	(49.5/67.5)
Rotor	RPM	2700	2700	2700
Oil (gear pump)	(liters)	170	170	170
Oil (piston pump)	(liters)	120	120	120



KATIA	550	600	650
A (mm)	5599	6034	6511
B (mm)	3259	3559	3986
C (mm)	1892	1923	2030
D (mm)	4968	5394	5990
E (mm)	6633	7045	7505
F (mm)	420	420	420
G (mm)	1643	1791	1906
H (mm)	5653	6092	6571
I (mm)	1165	1165	1165
L (mm)	3620	3620	3620
M (mm)	1820	1820	1820
N (mm)	2325	2325	2325
O (mm)	2313	2511	2749
P (mm)	1027	1218	1449



STANDARD FEATURES

- Independent hydraulic circuit
- Rotor gear pump in cast iron cat 3. Max 540 RPM
- High output silenced motor on cutting head
- Proportional electric compensated distributor (JSPE)
- Output filter for oil distributor
- Proportional distributor to reduce stresses on start and stop of rotor and extend lifespan of the circuit
- Double direction spinning rotor
- Spiral blades distribution on rotor
- Zinc-coated hinges made in heat treated steel
- Hardened bushings with anti-wear treatment
- Connection for fork lift for 125/C5 head with rear central hitch
- Floating head
- Rear roller diameter 152 mm
- Over-center safety valve on 1st and 2nd arm
- Tilting safety system with nitrogen dampener and max-load valve to prevent any damage from hitting obstacles.
- Anti-clogging safety with rotor RPM sensor
- Control box
- Head rotation 246°
- PTO shaft
- Road light
- Rotor arrest in 13"
- Heat exchanger

**OPTIONAL FEATURES**

- JSPH Joystick (with control box)
- Nitrogen accumulator on 1st arm
- Delta 3rd point connector with anchorage for stabilizer brackets
- Rigid connection for tractor axle
 - Closed circuit piston pump
 - Belt drive cutting head
- Centralized self-greasing system
 - Touch screen monitor

MASCHIO GASPARDO**the winning team**

**COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= ISO 9001:2008 =**

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