

catalogue machines



GANDINIMECCANICA
INTERNATIONAL CHIPPERS LINE

ON THE MARKET FOR OVER 50 YEARS, GANDINI MECCANICA HAS ESTABLISHED ITSELF IN THE WOOD CHIPPERS SECTOR THANKS TO THE RELIABILITY AND HIGH TECHNOLOGICAL CONTENT OF ITS PRODUCTS.

Gandini Meccanica has been active on the market for over fifty years. It was set up in March 1958 (back then as O.M.G.A. Officine Meccaniche Gandini) by its strong-willed proprietor, later supported by his 8 children who all joined the company. It quickly established its position in the market, offering a high quality standard and unprecedented technological content. A primary focus has always been devoted to after-sale service, very precise and reliable, especially appreciated by customers in the professional sector.

GANDINIMECCANICA
INTERNATIONAL CHIPPERS LINE



1970



**PIONEER OF THE "NOSTRESS" SYSTEM
APPLIED TO CHIPPERES AND LEADING
COMPANY IN THE SECTOR.**

It has always been at the forefront of experimentation and development of new technologies, it invented and was the first in the world in fitting chipping machines with the by now legendary "NOSTRESS" system. With over 7,000 produced chipperes, divided into 60 models, with power from 20 to 800 CV.

Among the most long-lived chipperes manufacturer worldwide and, without doubt, one of the market leaders.





New line of chippers for the production of high quality chips, suitable to handling large quantities of material

PAGE 08



Line of professional chippers equipped with special devices to optimise reliability and duration over time

PAGE 44



Innovative line of work centres for fire wood, featuring high productivity and the utmost safety

PAGE 62



Range of machinery designed for grinding plant waste.
Maximum work yield and minimum noise level

PAGE 72

NEW LINE OF CHIPPERS FOR THE PRODUCTION
OF HIGH QUALITY CHIPS, SUITABLE TO HANDLING
LARGE QUANTITIES OF MATERIAL

CHIPPERENERGY

The ENERGY range consists of a range of medium-large sized drum chippers developed for the production of high quality chips. These machines are suitable to handle large amounts of material of any size and type. Complete with electronic NOSTRESS system and gauging grid, they may be supplied with set-ups to address any need.



Thanks to very aggressive drive rollers, feeding is always perfect with any kind of material. The machine's conveyors in the lower part of the rollers assure recovery of any escaped chips.

The feeding chute may be fitted with steel chains (optional).

All Energy chipper models may be set up with wheels for towing, own engine or placed on self-propelled vehicles. The drum cutting system with multi-blades assures production of high quality chips (calibration grate). The ejection of the chips with a multiblade fan makes it possible to obtain dust-free chips and loading even a 40' container, with minimum power absorption. The 360° rotating discharge pipe is adjustable in height and hydraulically tilting.

CHIPPERENERGY
23 | 30 | 40 | 50 | 80

Range of professional medium-sized chippers with drum cutting system. Designed to obtain high-quality, consistent and well-calibrated chips, for use for energy purposes in boilers of any make and size, to produce pellets, or for industrial production of chipboard panels.



NEW LINE OF CHIPPERS FOR THE PRODUCTION OF HIGH QUALITY CHIPS, SUITABLE TO HANDLING LARGE QUANTITIES OF MATERIAL

The innovative technical solutions applied, allow the Energy range to be used in especially heavy-duty and continuous work that may range from forestry to chipping sawmill waste and maintenance of large parks. Any wood material may be ground, logs, branches, twigs, green prunings including resinous trees or palm residues, as well as particularly hard wood. Innovative system for extracting chips: the chips are instantly extracted by the chipping drum through a vacuum system that makes it possible to remove all intermediate parts such as worm screws etc. This results in a reduction of absorbed power, reduction in dust in the chips, longer service life of the blades, reduction in maintenance costs as well as elimination of all chipper clogging issues. Clogging is eliminated: green and moist material may be chipped with optimal results with no clogging issues.



Double drive roller and toothed chains



Chip calibration grid



CT 23/42 TPS



CT 23/42 MTS



CT 23/42 MTS



CT 30/60 TPS



CT 30/60 TPS



CT30/60 TPS with 540RPM PTO



Gear motors very powerful



Hydraulic system

The wide loading hopper, complete with large sized drive rollers driven by gear motors and steel drive chains (optional) assure perfectly feeding the chipper with any type of material. The hopper may be folded for transport.

Version TPS-TTS professional chipper, driven by the tractor's PTO at 1000/750 RPM. Carried on the three tractor points. With wheels and drawbar for towing (optional).

Version MTS-MTE forestry chipper, driven by independent engine with water cooled diesel engine option, or with electric motor. Motion transmission by V-belts. With road trailer approved for towing at 80 or 40 km/h (optional). Self-propelled crawler mounted outfitting (optional).

FEATURES

- Double hydraulic drive rollers with very powerful gear motors.
- Solenoid valve block.
- All electronic controls.
- Safety and control system with galvanised panic bar.
- Drum with adjustable exposure blades.
- High thickness steel chipping drum.

CHIPPERENERGY 23 | 30 | 40



Great throwing power



CT 30/60 perfect chipping on vine trimmings

- Quick blade attach-detach system.
- Gauging grid.
- Joystick to control input or ejection of the material.
- Chip ejection cap with adjustable tilt.
- Hydraulic pump mounted with flexible coupling system to increase service life.
- Hydraulic pump with cast iron flanges to increase service durability over time.
- Hydraulic system independent from the tractor.
- Pressurised oil tank to assure perfect cleanliness of the oil hydraulic system.
- Hydraulic oil filter on intake.
- Oversized, maintenance-free chipping disc supports.
- Bearing with double row of barrel rollers.
- Shaft fitting in hardened 38NCD4.
- Folding loading hopper to reduce overall dimensions during transport or storage.
- Easy access for maintenance.
- Lifting hook.
- Folding pipe with gas piston lowering system (optional).
- Roller revolutions adjustment valve (optional).
- The chipper may be fitted with hydraulic log loading crane (optional).
- Centralised greasing (optional).



Compacting roller and toothed chains



Chip calibration grid



CT 30/60 TT6



CT 30/60 TT6



CT 30/60 TT6



30/60 MTS



30/60 MTS



CHIPPERENERGY
23 | 30 | 40

CHIPPERENERGY 23



CHIPPERENERGY 23 30 40		23-42 TPS	23-42MTS	30-60 TPS	30-60 MTS	40-60 TPS	40-60 MTS
TRACTOR POWER	cv	40-80	/	70-120	/	90-160	/
ENGINE POWER	cv (kW)	/	60 (44)	/	126 (93)	/	175 (128)
NUMBER OF CYLINDERS	n°	/	4	/	4	/	6
MAX WOOD DIAMETER	mm	230	230	300	300	300-400	300-400
NUMBER OF ROLLERS	n°	2	2	3	3	3	3
MAXIMUM PASS	mm	230x420	230x420	300x600	300x600	400x600	400x600
NUMBER OF BLADES	n°	2-2	2-4	3-6	3-6	3-6	3-6
DRUM DIAMETER	mm	360	360	450	450	620	620
DRUM WIDTH	mm	420	420	600	600	600	600
CHIP LENGTH	mm	6-20	6-20	6-30	6-30	6-30	6-30
CHANGEABLE GRID		standard	standard	standard	standard	standard	standard
SOUNDPR. ENGINE		/	optional	/	optional	/	optional
SELF-CLEANING FAN		/	/	/	optional	/	optional
BELT TRANSMISSION		/	standard	/	standard	/	standard
360° CHIPS PIPE		standard	standard	standard	standard	standard	standard
FOLDING PIPE		standard	standard	optional	optional	optional	optional
NOSTRESS DEVICE		standard	standard	standard	standard	standard	standard
NOBLOCK		standard	standard	standard	standard	standard	standard
HOUR COUNTER		standard	standard	standard	standard	standard	standard
RADIOCONTROL		/	/	optional	optional	optional	optional
LIGHTS SYSTEM		optional	optional	optional	optional	optional	optional
CARDAN JOINT SHAFT		standard	/	standard	/	standard	/
PTO SHAFT		optional	/	optional	/	standard	/
HOURLY PRODUCTION		8-12 cu.m/hr	9-14 cu.m/hr	18-25 cu.m/hr	25-30 cu.m/hr	30-50 cu.m/hr	40-60 cu.m/hr
SHIPPING DIMENSIONS	mm	2200x1800x2300	3400x2000x2500	2600x2000x2600	4600x2200x2800	3200x2100x2600	5200x2300x2900
MACHINE WEIGHT	kg	1400	2350	1600	3250	1900	3550



CT 50/100 TTG

CHIPPERENERGY 40 | 50 | 80

NEW LINE OF CHIPPERS FOR THE PRODUCTION OF HIGH QUALITY CHIPS, SUITABLE TO HANDLING LARGE QUANTITIES OF MATERIAL

Intended for use in medium to large sized forest sites, this chipper ensures high productivity. Designed to be used in forestry, the **ENERGY 40-50-60** range has been developed to produce high quality chips to be used in the energy sector.

ENERGY drum chippers have been designed around a drum blade cutting system, while all operations carried out by the machine to produce chips may be automatically controlled with an electronic system.

The machines are fitted with the most innovative NOSTRESS and NOBLOCK systems and, thanks to their technical structure, they may be driven by tractor or independent engine.



CT 40/75TTS

To increase chip production and fully exploit the power output, these chippers are equipped with a series of high grip toothed rollers, which may be added by an industrial chain conveyor for conveying into the chipper even significant amounts of medium-large sized twigs. Furthermore, all models are fitted with an output calibration grid to produce various chip sizes. The main intended use for this range of chippers is the medium-large sized forestry site, although they may also be applied in agriculture.

The chipping block is made with very thick steel plates that assure long durability even under heavy duty and continuous operating conditions.

The steel plates subject to greater wear, such as the fan case panel, the drum case panel, the chip ejection pipe outer sheet metal are in wear-proof HARDOX600 steel. The ejection fan consists of interchangeable screwed terminals.



Control and instrumentation panel on the machine



CT 40/75 TTG

CHIPPER ENERGY 40 | 50 | 80



CT 40/75 TTS

The **large-sized chipping** drum processes to perfection even large-sized logs. It consists of two rows of five blades, easily replaceable for sharpening operations. The blade is fastened to the drum with steel screws. The screws are screwed into interchangeable threaded and cemented bushes placed on the support plate of the blades.

The **blades** and the counterblade are both adjustable and allow chip size to be changed with utter precision.

The calibration grid is interchangeable, disassembly is easy and quick.

Chip size adjustment is carried out by changing the exposure of the blades and replacing the calibration grid. By adjusting the distance between blade and counterblade, chips of the desired size may be obtained even before the chips come into contact with the grid. This markedly reduces dust and the "regurgitation" effect (chips that go back into the chute), thus assuring lower power absorption, lower blade wear, higher productivity and very high quality chips.

The **bearings of the chipping drum** are of the type with double row of barrel rollers and oversized, contained in steel supports CNC machined from billet with large support flange to ensure strong stability.



CT 40/75 TTS



CT 40/75 TTS



Four toothed rollers and powerful and indestructible supply chain



CT 50/75 TTS

The **chip ejection fan**, with suction effect, is in direct contact with the chipping drum. This makes it possible for the chips to be immediately extracted after chipping, leading to a marked decrease in power consumption and dust. In fact the absence of middle components, such as worm screws, assures the chips maintain their speed. This makes it possible for the fan to turn at a lower speed, thus also reducing the wear of the sliding plates. The simplicity of the ejection system completely eliminates any clogging problem even when grinding green twigs or material with leaves.

The **chip ejection pipe** revolves at 360°, it is fitted in the end part with a baffle to convey the chips with precision into containers of any height. Foldable into the shape limits for road transport.

The **feeding hopper** is constructed with steel plate, reinforced on the perimeter and on the sides. It consists of a large sized tank with containing sides and toothed feeding rollers. The end part of the hopper folds hydraulically to reduce overall dimensions during transport.



CT 50/100 TTG



CT 50/100 TTG

The **horizontal toothed drive rollers** (three plus four additional ones as optional) are driven by oversized oil bath planetary gear motors. This assures great drive strength, that makes it possible to handle large amounts of material, large-diameter logs or with bifurcations, twigs and branches etc.

The **supplementary drive rollers** (four as optional), located in the feeding hopper, have the purpose of aiding in the introduction of especially bulky material. Furthermore, they help eliminating any foreign matter in the twigs and logs to be ground (e.g. soil, stones etc.).

Greasing of all points is centralised to reduce maintenance and make operations easier.

The **hydraulic system** actuates all the chipper's operations. The circuit consists of FOUR hydraulic cast iron pumps and FIVE blocks of solenoid valves that individually supply the three toothed traction rollers and other services such as pipe rotation for chips output, mobile roller motion etc.



CT 50/100 TTG



hydraulic system



Chip calibration grid



Remote control for MTS version

CHIPPERENERGY 40 | 50 | 80



Powerful planetary gear motors in oil bath assure rotation of the toothed rollers. The circuits are at low pressure and filtered to assure proper operation with no circuit overheating. This leads to long durability of the system and consistent operation over time. All operating pressures are easily controlled on the control monitor on the machine.

The electric system integrated with the machine's computer controls the whole machine in every work stage. Thanks to a touch-screen monitor the operator interface is simple and user-friendly, making it possible to perform any operation and monitoring status of the work stages. Any required maintenance or fault is also signalled.

The NOSTRESS device, which controls the grinding stage, interrupts feeding the material when the engine's speed is excessively low and resumes automatically as soon as the engine's power picks up again.

CT 80/130 MTS

The **NOBLOCK** device assures the material is fed smoothly by triggering in the event of accidental block of the feeding components (chain and roller).

The **engine and transmission** (MTS version) consist of a diesel engine with water cooling and oversized radiator. Thanks to pneumatic fan inversion the radiator may always be kept clean, thus increasing performance. The power transmission of the engine is by means of belts with hydraulic engage.

The user controls the engine with a digital panel. Data transmission uses the Can-BUS system

Remote control (wireless in radio frequency, optional): it controls all the machine's operations. Tested against impact and suitable for humid environments. Active and passive safety category 4 (UNI EN 954-1)

Hydraulic loading crane (optional): the chipper may be fitted with hydraulic log loading crane, set up as desired by the customer.

The ENERGY range may also be configured for applications on crawler or wheeled self-propelled vehicles, on demountable vehicles, towed and approved for road use, with chipper head placed on a rotating platform, complete with hydraulic log splitter to reduce the size of the outsize logs.



CT 80/130 MTS



CT 80/130 MTS



CT 80/130 MTS



CHIPPERENERGY 40-50-80		40-75 TTS	40-75 MTS	40-100 TTS	40-100 MTS
TRACTOR POWER	cv	120-200		150-200	/
ENGINE POWER	cv (kW)	/	/	/	175 (128) - 220 (161) - 315 (231)
NUMBER OF CYLINDERS	nº	/	175 (128) - 220 (161) - 315 (231)	/	6
MAX WOOD DIAMETER	mm	400	6	400	400
NUMBER OF ROLLERS	nº	4	400	4	4
MAXIMUM PASS	mm	400x750	4	400x1000	400x1000
NUMBER OF BLADES	nº	3-6	400x750	4-8	4-8
DRUM DIAMETER	mm	620	3-6	620	620
DRUM WIDTH	mm	750	620	1000	1000
CHIP LENGTH	mm	6-30	750	6-30	6-30
CHANGEABLE GRID		standard	6-30	standard	serie
SOUNDPR. ENGINE		/	standard	/	optional
SELF-CLEANING FAN		/	optional	/	optional
BELT TRANSMISSION		/	optional	/	standard
360° CHIPS PIPE		standard	standard	standard	standard
FOLDING PIPE		standard	standard	standard	standard
NOSTRESS DEVICE		standard	standard	standard s	standard
NOBLOCK		standard	standard	tandard	serie
HOUR COUNTER		standard	standard	standard	standardv
RADIOCONTROL		optional	standard	optional	optional
LIGHTS SYSTEM		standard	optional	standard	standard
CARDAN JOINT SHAFT		standard	standard/	standard	/
PTO SHAFT		standard	/	standard	/
HOURLY PRODUCTION		40-70 cu.m/hr	60-120 cu.m/hr	50-70 cu.m/hr	70-130 cu.m/hr
SHIPPING DIMENSIONS	mm	4200x2400x3000	5500x2400x3000	4500x2400x3000	6200x2400x3000
MACHINE WEIGHT	kg	5500	8000	6800	9000

CHIPPERENERGY 40 50 80		50-75 TTS	50-75 MTS	50-100 TTS	50-100 MTS	80-130 TTS	80-130 MTS
TRACTOR POWER	cv	150-300	/	200-320	/	250-450	/
ENGINE POWER	cv (kW)	/	315 (231) - 487 (358)	/	487 (358) - 530 (389)	/	530 (390) - 730 (536)
NUMBER OF CYLINDERS	nº	/	5	/	8	/	8
MAX WOOD DIAMETER	mm	500	500	500	500	700-800	700-800
NUMBER OF ROLLERS	nº	4	4	4	4	4	5
MAXIMUM PASS	mm	500x750	500x750	500x1000	500x1000	800x1300	800x1300
NUMBER OF BLADES	nº	3-6	3-6	4-8	4-8	5-10	5-10
DRUM DIAMETER	mm	750	750	750	750	1100	1100
DRUM WIDTH	mm	750	750	1000	1000	1300	1300
CHIP LENGTH	mm	6-40	6-40	6-40	6-40	6-40	6-40
CHANGEABLE GRID		standard	standard	standard	standard	standard	standard
SOUNDPR. ENGINE		/	optional	/	optional	/	optional
SELF-CLEANING FAN		/	standard	/	standard	/	standard
BELT TRANSMISSION		/	standard	/	standard	/	standard
360° CHIPS PIPE		standard	standard	standard	standard	standard	standard
FOLDING PIPE		standard	standard	standard	standard	standard	standard
NOSTRESS DEVICE		standard	standard	standard	standard	standard	standard
NOBLOCK		standard	standard	standard	standard	standard	standard
HOURLY PRODUCTION		60-120 cu.m/hr	80-120 cu.m/hr	70-130 cu.m/hr	100-150 cu.m/hr	150-250 cu.m/hr	200-300 cu.m/hr
SHIPPING DIMENSIONS	mm	4500x2400x3500	6200x2450X3400	4600x2400x3500	6500x2450x3400	5600x2500x3500	6500x2450x3400
MACHINE WEIGHT	kg	6500	12000	8000	14000	12000	21000

Gandini Meccanica offers a variety of chipper models driven by tractor or with independent engine, designed with technologically advanced criteria, produced with stringent construction techniques and individually tested. The main component of chippers is the chipping disc which, after machining, is dynamically balanced.

LINE OF PROFESSIONAL CHIPPERS EQUIPPED WITH SPECIAL DEVICES TO OPTIMISE RELIABILITY AND DURATION OVER TIME.

CHIPPERLINE

CHIPPERLINE
150 | 170 | 200 | 09 | 13



The electronic "NOSTRESS" device fitted on the various chipper versions of the Chipper range, is fully programmable, and according to the chipping disc rotation speed it automatically regulates wood feeding (with solenoid valve). It is paired with an hour-counter to clock the machine's operating time.

All chipping machines are fitted with the rapid blade fitting and removal system, which reduces to the minimum maintenance time and any assembly errors. The hydraulic system has been designed to the smallest detail and made with superior quality components, oversized piping and special solenoid valve block, everything to ensure maximum reliability and durability of the chipper over time.



CHIPPERLINE 150 | 170

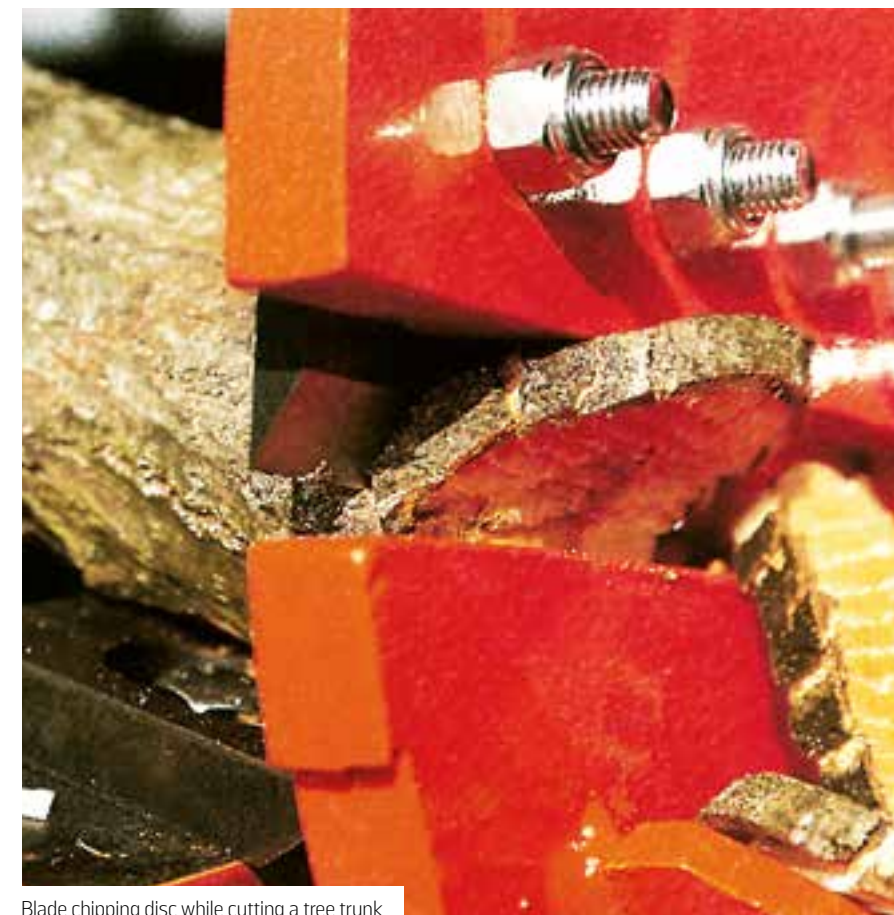
CH 150 TPS

THE IDEAL CHIPPER TO SOLVE GRINDING PROBLEMS IN MEDIUM-SIZED SITES

Professional compact grinder, designed for use in chipping of prunings in parks and gardens, condo areas, boulevards, traffic islands, etc., for shredding all the plant material resulting from pruning of trees, hedges, evergreens. Suitable to grinding dry and green material, logs and brushwood. Its compact size makes it a very versatile chipper, not too bulky, suited to operating in narrow sites where space is reduced to the minimum, it may be fitted with wheels and drawbar for agricultural towing (optional).

CH 150/170 TPS compact chipper, driven by the tractor's PTO at 540RPM, with double parallel coupling, complete with independent hydraulic system, independent from the tractor, it may be fitted with wheels and drawbar for agricultural towing (optional).

CH 150/170 MTS compact chipper, driven by independent engine, with motion transmission by means of V belts. With road trailer approved for towing at 80km/h (optional). The chip ejection pipe, adjustable at 360°, allows the ground material to be directly loaded onto the vehicle towing it. Nimble and compact it moves easily even in the narrowest passages. Self-propelled crawler mounted outfitting (optional).



Blade chipping disc while cutting a tree trunk

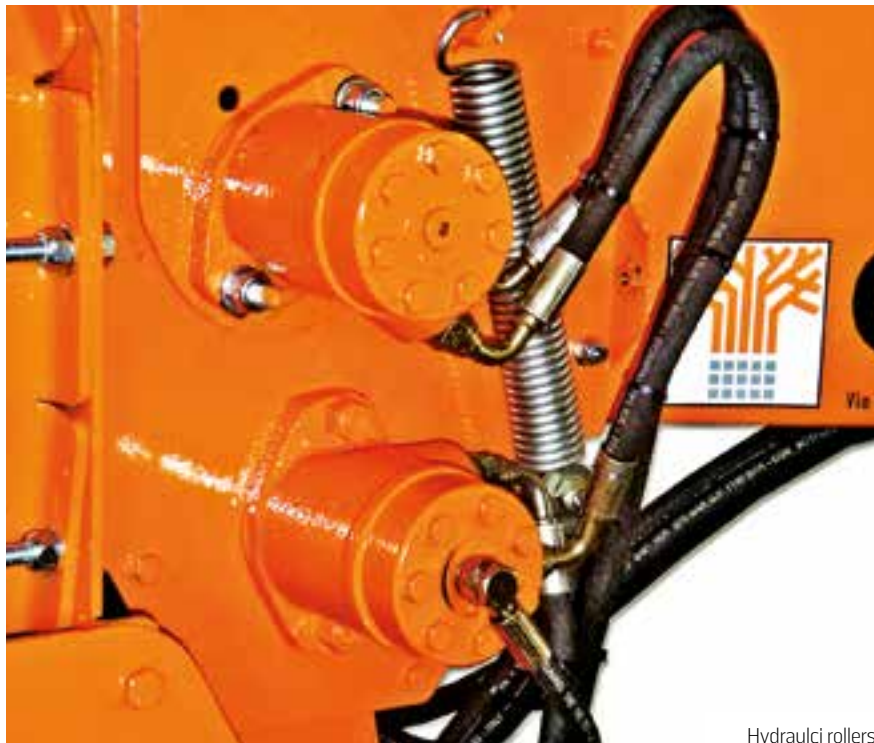


Axle and drawbar

CHIPPERLINE 47



Self propelled crawler



Hydraulic rollers

FEATURES

- Very powerful hydraulic traction rollers.(CH 110 single roller)
- Toothed roller with exclusive blade and tooth system to increase the drive power.
- Hydraulic pump mounted with flexible coupling system to increase durability over time.
- Pressurised oil tank to assure perfect cleanliness of the oil hydraulic system.
- Rapid blade attaching-detaching system, with no need for adjustments
- Double-edged counter blade.
- Roller positioning and control system with shockproof bearings.
- Height-adjustable chip ejection cap.
- Safety and control system with galvanised panic bar.
- Feeding roller speed adjustment valve (optional).
- Folding loading hopper to reduce overall dimensions during transport or storage.
- Easy maintenance access (blade change and greasing)
- Centralised greasing (optional)

CHIPPERLINE 150 | 170



CH 150 MTS

CHIPPERLINE 200

GREATLY RELIABLE CHIPPER WITH RAPID BLADE DETACH SYSTEM TO ASSIST IN MAINTENANCE



CH 200 TPS

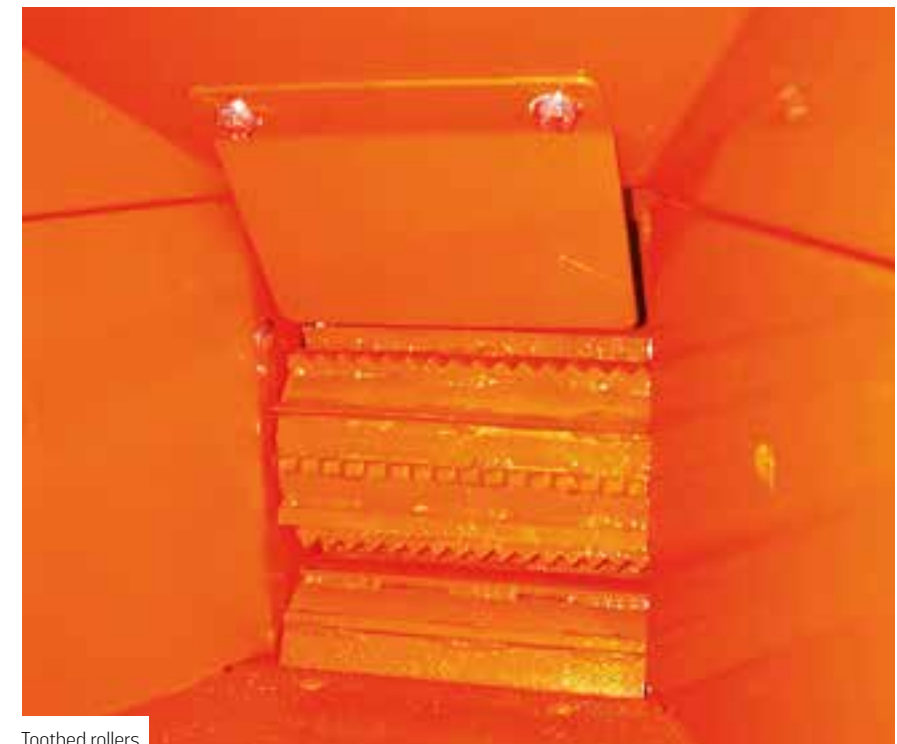
Professional medium-sized grinder, designed for use in chipping of prunings in parks and gardens, condo areas, boulevards, traffic islands, cleaning forestry work etc., for shredding all the plant material resulting from pruning of trees, hedges, evergreens. Suitable to grinding dry and green material, logs and brushwood.

The sturdy structure assures continuous use even for especially demanding work.

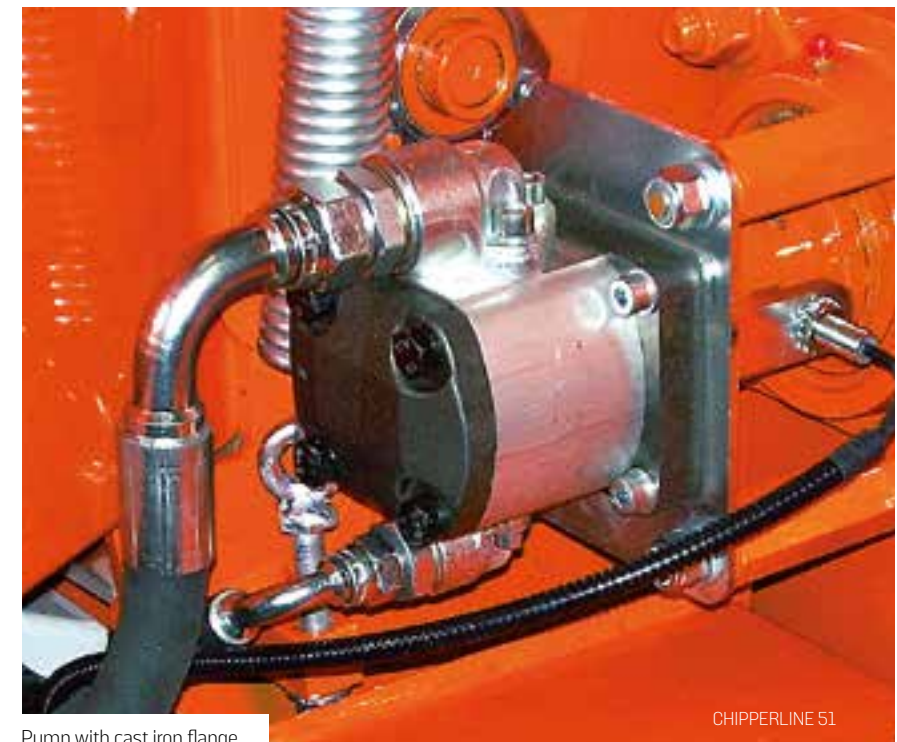
CH 200 TPS professional chipper, driven by the tractor's PTO at 540RPM, with double parallel coupling, complete with hydraulic system independent from the tractor. It may be fitted with wheels and drawbar for agricultural towing (optional).

CH 200 MTS professional chipper driven by independent diesel engine, liquid cooled with anti-clogging filtered radiator. Sturdy, powerful motion transmission with increased section belts. The chip ejection pipe, adjustable at 360°, allows the ground material to be directly loaded onto the vehicle towing it.

Side hatch door which may opened for easy and convenient maintenance and inspection of the engine/transmission compartment. With road trailer approved for towing at 80km/h (optional). Height-adjustable drawbar to adapt to any vehicle. Self-propelled crawler mounted outfitting (optional).



Toothed rollers



Pump with cast iron flange



CH 170/200 MTS



Radiator with anti-clogging pre-filter

FEATURES

- Very powerful double hydraulic drive roller.
- Toothed rollers with exclusive blade and tooth system to increase the drive power.
- Hydraulic pump mounted with flexible coupling system to increase durability over time.
- Pressurised oil tank to assure perfect cleanliness of the oil hydraulic system.
- Rapid blade attaching-detaching system, with no need for adjustments.
- Double-edged counter blade.
- Roller positioning and control system with shockproof bearings.
- Height-adjustable chip ejection cap.
- Safety and control system with galvanised panic bar.
- Folding loading hopper to reduce overall dimensions during transport or storage.
- Easy maintenance access (blade change).
- Feeding roller speed adjustment valve (optional).
- Centralised greasing (optional).
- Lifting hook.
- Radiator with anti-clogging cleaning pre-filter.
- Hydraulic pump with cast iron flanges to increase service durability over time.



CH 170/200 MTS

CHIPPERLINE 150 170 200		150 TPS	150 MTS	170 TPS	170 MTS	200 TPS	200 MTS
TRACTOR POWER	cv	25-50	/	35-60	/	40-70	/
ENGINE POWER	cv (kW)	/	25	/	40	/	40
NUMBER OF CYLINDERS	nº	/	2	/	3	/	3
MAX WOOD DIAMETER	mm	100-130	100-130	130-150	130-150	160-180	160-180
NUMBER OF ROLLERS	nº	2	2	2	2	2	2
MAXIMUM PASS	mm	150x150	150x150	170x170	170x170	240x200	240x200
NUMBER OF BLADES	nº	3	3	3	3	3	3
FLYWHEEL DIAMETER	mm	600	600	680	680	700	700
SOUNDPROOFED BONNETS		/	optional	/	optional	/	standard
CHIP LENGTH	mm	10-13	10-13	10-13	10-13	10-13	10-13
360° SWIVELLING CHIPS PIPE		standard	standard	standard	standard	standard	standard
NOSTRESS DEVICE		standard	standard	standard	standard	standard	standard
HOURLY PRODUCTION	ton	3	3	4	4	5	5
360° REVOLVING FEEDING CHUTE		/	/	/	/	/	optional
HYDRAULIC CONTROLS		/	/	/	/	/	/
SHIPPING DIMENSIONS	mm	1850x1150x1300	2150x1250x1350	1850x1250x1500	2700x1200x1500	2100x1400x1750	3000x1800x1700
MACHINE WEIGHT	kg	360	650	550	750	730	1000



CHIPPERLINE 09 | 13

CH 9-13 TPS

CHIPPER WITH TILTED CUTTER THAT REDUCES ABSORBED POWER. IDEAL FOR LARGE PRUNING SITES

Professional medium-sized chipper, designed for use in chipping of prunings in parks and gardens, condo areas, boulevards, traffic islands, cleaning forestry work etc., for shredding all the plant material resulting from pruning of trees, hedges, evergreens. Suitable to grinding dry and green material, logs and brushwood.

The sturdy structure assures continuous use even for especially demanding work.

CH 09/13 TPS forestry chipper, driven by the tractor's PTO at 540RPM. Double box PTO transmission, with no belt to be adjusted, and maximum transmitted power. Complete with hydraulic system, independent from the tractor. It may be fitted with wheels and drawbar for agricultural towing (optional).

CH 09/13 MTS forestry chipper, driven by independent engine. Motion transmission by V-belts. The chip ejection pipe, adjustable at 360°, allows the ground material to be directly loaded onto the vehicle towing it. With road trailer approved for towing at 80km/h (optional). Self-propelled crawler mounted outfitting (optional).



Vertical toothed rollers



CH 13 roller gear motor



Set of solenoid valves



Set of blades

FEATURES

- Hydraulic gear motors for starting the rollers.
- Roller closing/opening with hydraulic cylinder.
- Very powerful double hydraulic drive roller.
- Toothed rollers with exclusive blade and tooth system to increase the drive power.
- Solenoid valve block.
- All electronic controls.
- Safety and control system with galvanised panic bar.
- Disc with tilted blade housing with CNC machining (CH 13)
- Double-edged blades (CH 13).
- High thickness steel chipping disc.
- Rapid blade attaching-detaching system, with no need for adjustments.
- Roller positioning and control system with shockproof bearings.
- Height-adjustable chip ejection cap.
- Counter blade with four edges.
- Counter blade inside the chute, with total log support.
- Folding pipe with gas piston lowering system.
- Pumps with cast iron flange.
- Pressurised oil tank to assure perfect cleanliness of the oil hydraulic system.
- Filter on intake.
- Oversized, maintenance-free chipping disc supports.

- Bearing with double row of barrel rollers.
- Hydraulic pump mounted with flexible coupling system to increase service life.
- Shaft fitting in hardened 38NCD4.
- Folding loading hopper to reduce overall dimensions during transport or storage.
- Easy maintenance access (blade change).

- Lifting hook.
- Roller revolutions adjustment valve (optional CH 09).
- Grid (optional CH 13).
- Second counter blade (optional).
- The chipper may be fitted with hydraulic log loading crane (optional).



CH 9-13 MTS

CHIPPERLINE 09 | 13



CHIPPERLINE 09 13		09 TPS	09 MTS	13 TPS	13 MTS
TRACTOR POWER	cv	50-100	/	60-120	/
ENGINE POWER	cv (kW)	/	50-(60)	/	80
NUMBER OF CYLINDERS	nº	/	4	/	4T
MAX WOOD DIAMETER	mm	220-250	220-250	260-280	260-280
NUMBER OF ROLLERS	nº	2	2	2	2
MAXIMUM PASS	mm	300x270	300x270	300x270	300x270
NUMBER OF BLADES	nº	3	3	3	3
FLYWHEEL DIAMETER	mm	845	845	845	845
SOUNDPROOFED BONNETS		/	standard	/	standard
CHIP LENGTH	mm	10-13	10-13	7-10-13	7-10-13
360° SWIVELLING CHIPS PIPE		standard	standard	standard	standard
NOSTRESS DEVICE		standard	standard	standard	standard
HOURLY COUNTER		optional	optional	optional	optional
LIGHTS SYSTEM		optional	standard	optional	standard
CARDAN JOINT SHAFT		standard	/	standard	/
FLYWHEEL THICKNESS	mm	30	30	35	35
HOURLY PRODUCTION	ton	5-7	5-7	8-10	8-10
360° REVOLVING FEEDING CHUTE		/	standard	/	standard
HYDRAULIC CONTROLS		standard	standard	standard	standard
SHIPPING DIMENSIONS	mm	2300x1650x2300	2700x1800x2300	2300x1650x2300	3000x1800x2300
MACHINE WEIGHT	kg	1000	1500	1200	2000



Forest Cut Line is the range of combined saw/split machines for firewood designed and constructed by Gandini Meccanica. Safe, powerful, highly productive, Forest Cut is a work centre for firewood that, thanks to the innovative solutions applied, assures high productivity.



All operations made on the work centres of the Forest Cut Line are hydraulic, electronically controlled both in the functional and safety stage. The powerful log splitter with variable speed automatically changes speed according to the splitting effort. The power absorption of the work centres is really minimal thanks to the chain cutting system. The saw chain lubrication is fully automatic.

Very safe thanks to protection of all moving parts, all guards are electronically controlled. The Forest Cut line consists of two models that differ in cutting performance and productivity.

INNOVATIVE LINE OF WORK CENTRES FOR FIRE WOOD,
FEATURING HIGH PRODUCTIVITY AND THE UTMOST SAFETY.

FORESTCUTLINE



FC 48

FOREST CUT 48 IS A POWERFUL WOOD WORK CENTRE THAT CHANGES SPEED ACCORDING TO THE SPLITTING EFFORT

Forest Cut 48 is a combined saw/split machine for firewood that assures high productivity. All work operations are electric-hydraulic, easily carried out from the control panel.

The chain cutting system reduces power absorption to the minimum. The winch assures easy opening, closing and adjustment of the belt unloading the logs, which may be closed so the machine falls within the permissible shape limitations for road travel. Cutting saw maintenance is easier, and the log length measurement system has also been optimised, being fully adjustable and automatically moving while the saw operates in order not to cause impediments to dropping the cut log.

The splitting thrust is very powerful. The splitting blades are hydraulically adjustable in height based on log diameter, and may be easily replaced. The hydraulic log feeding system (optional), assures work continuity and high productivity.



6-Parts split-blade (optional)



Optional



Return to 2 speed – quick return

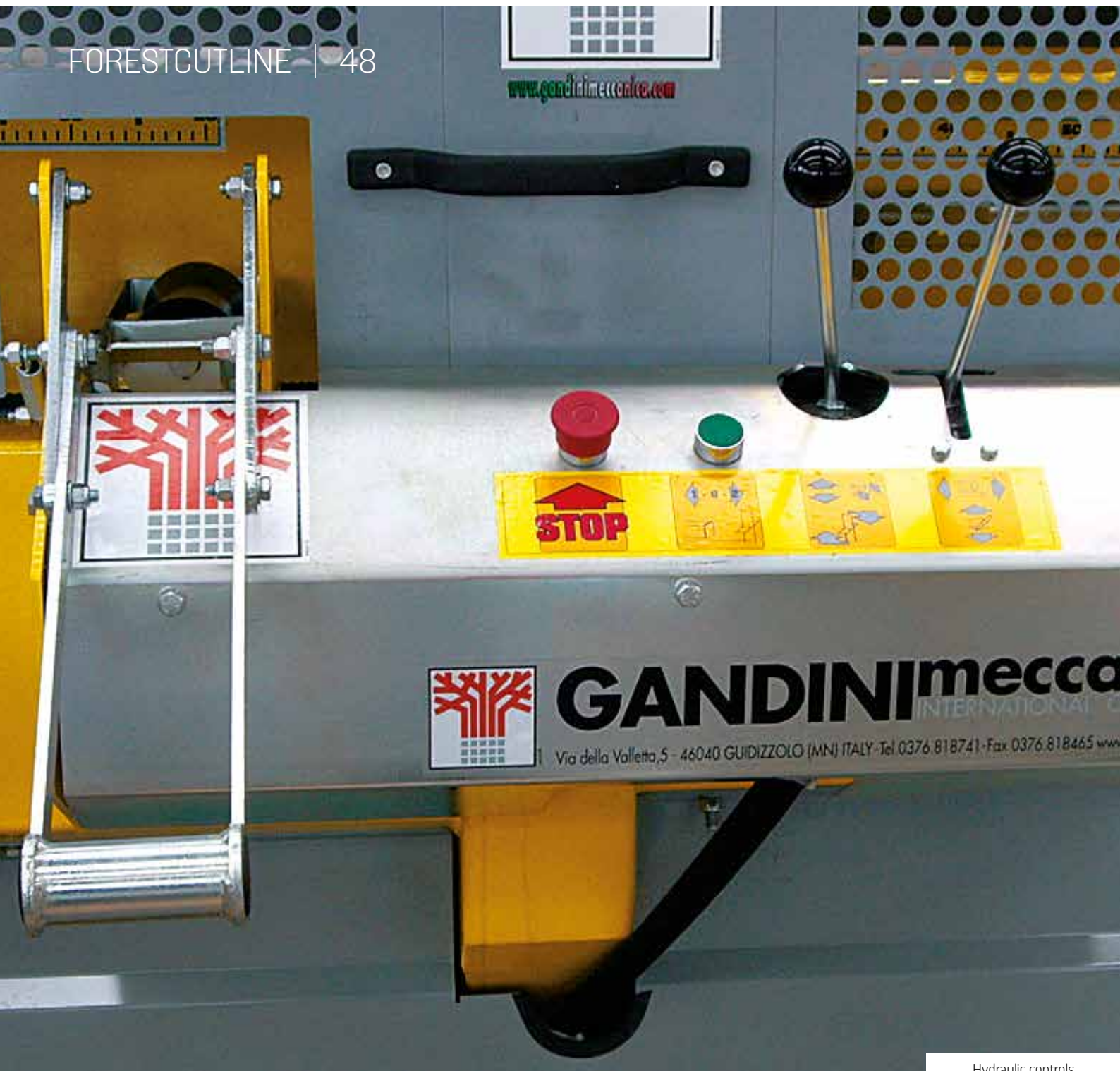


Chain maintenance

Also available in the AUTO version with the electrical controls kit (as optional). It consists of an automatic wood tipping surface to prevent the log from crossing over to the splitting tank, an electronically controlled hydraulic presser, a 7-function electronic manipulator from which all machine functions may be controlled and a laser cutting length adjustment system.



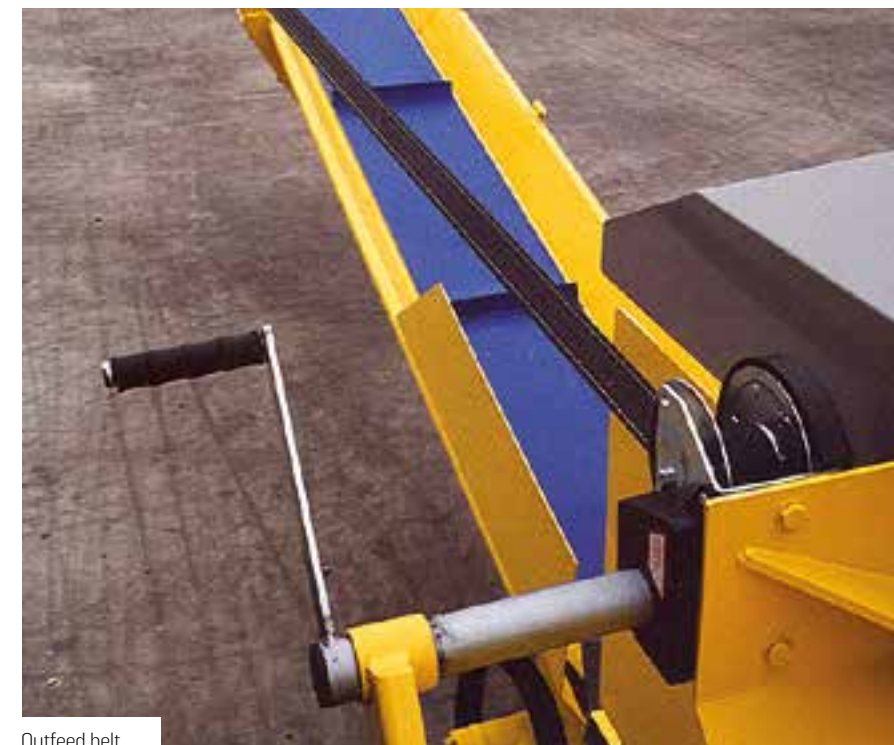
Hydraulic log magazine plane



Hydraulic controls

FEATURES

- The log enters the hydraulic conveyor belt; the operation is controlled by the operator both on infeed and in reverse.
- The overall dimensions of the machine fall within the shape permitted by law for road use.
- The log feeding system (optional) assures work continuity and high productivity.
- The wood splitting blades may be replaced and hydraulically adjustable based on log diameter.
- All work operations are electrical-hydraulic and easily carried out from the control panel.



Outfeed belt



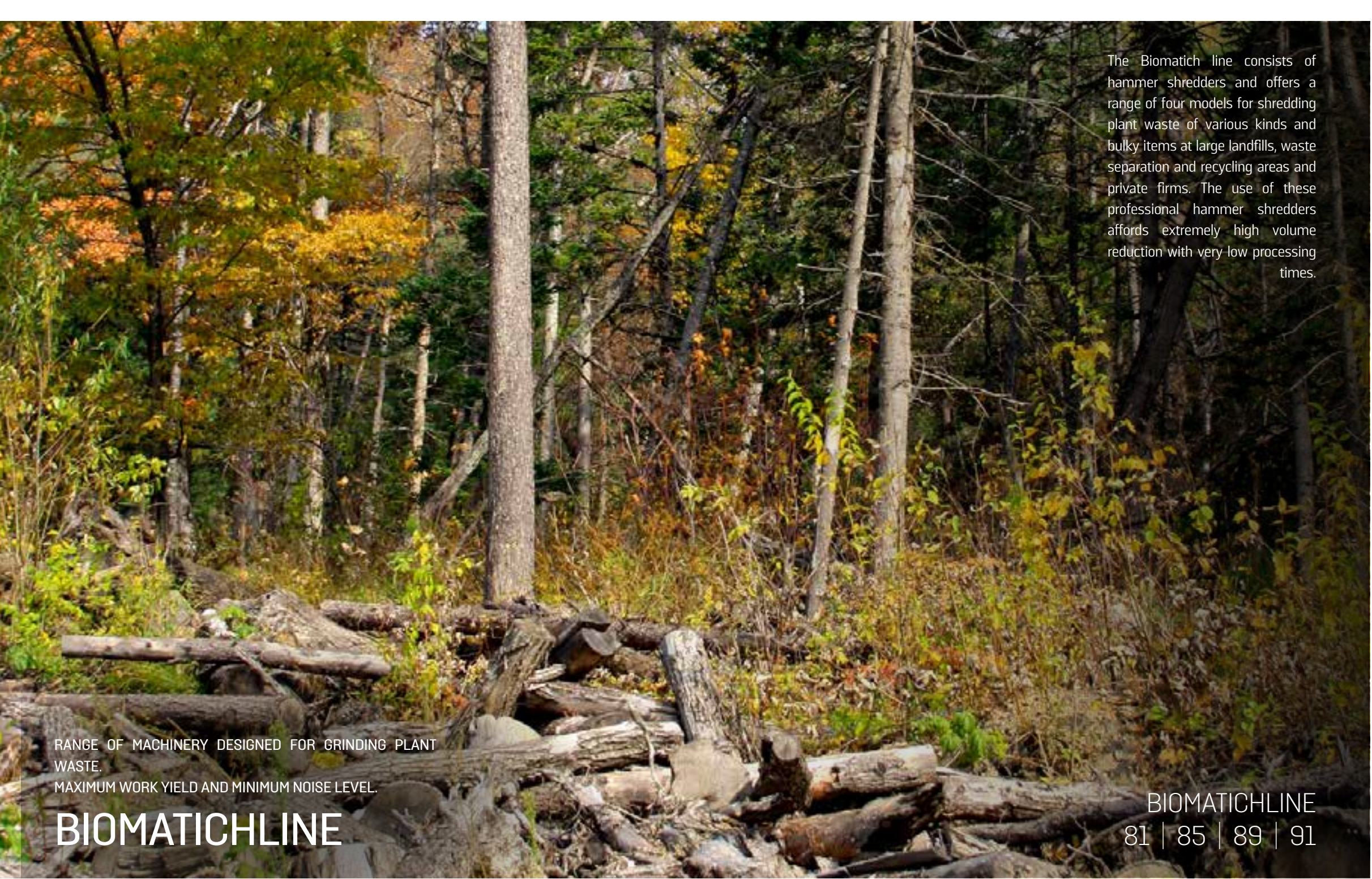
Transport overall dimensions



FORESTCUTLINE 48

FC 48

HOURLY PRODUCTION	n°	2000+3000
MAX WOOD LENGTH	mm	4500
CUTTING WITH CHAIN SAW TYPE		0,325"/72 18"
SPLITTING	t	13
SPLITTING WEDGE		2-4 (6)
MAX WOOD DIAMETER	mm	380-400
ADJUSTABLE PIECE LENGTH	mm	150-650
MIN. POWER OF THE TRACTOR	cv	35
ELECTRICAL MOTOR POWER	kw	11
CONVEYOR LENGTH	mm	4200
MACHINE WEIGHT	kg	930
SHIPPING DIMENSIONS	mm	2500x1200x2500
LOG MAGAZINE PLANE		Oprional
HYDRAULIC CONTROLS		Standard
ELECTRICAL MOTOR		Oprional



RANGE OF MACHINERY DESIGNED FOR GRINDING PLANT
WASTE.
MAXIMUM WORK YIELD AND MINIMUM NOISE LEVEL.

BIOMATCHLINE

BIOMATCHLINE
81 | 85 | 89 | 91

The Biomatch line consists of hammer shredders and offers a range of four models for shredding plant waste of various kinds and bulky items at large landfills, waste separation and recycling areas and private firms. The use of these professional hammer shredders affords extremely high volume reduction with very low processing times.



The main distinctive feature of **the Biomatch range of hammer shredders** produced by Gandini Meccanica is the heavy hammer shredding system, fitted with self-sharpening profile, which assure 800 hours of perfect shredding with no intervention (only for series 81 and 85). The **CTP** electronic device fitted (as an optional on the 81 and 85 series) on the versions of this range of bio-shredders is fully programmable and, according to the rotation speed of the rotor, it automatically adjust wood feeding by solenoid valve. Placed in a vibration-protected box, it is paired with an hour counter for clocking operation time of the shredding machine (as optional on series 81 and 85).

On all machines of the Biomatch range the controls of hydraulic operations are fully electronic to assure better precision and greater general safety.



Feeding chute



Hydraulic system

BIOMATICHLINE 81 | 85

HIGH PRODUCTIVITY HAMMER SHREDDER RANGE, IT MAKES IT POSSIBLE TO SHRED VERY BULKY AND UNEVEN MATERIAL, ASSURES UP TO 800 HOURS SHREDDING WITH NO SERVICING.

The special rotor design of this range of hammer shredders, assures optimal throw with wet material (leaves, grass etc.).

The special self-sharpening profile and casting with 12 components assure 800 hours of perfect shredding with no maintenance operation.

The conveyor chain and feeder roller assure high machine productivity and safe feeding of any type of material, including very irregular in shape and bulky.

The innovative gauging system which entails no grids on outfeed, but variable counter hammers, fitted on all models, assures perfect shredding of the loaded material, and eliminates all clogging issues arising from shredding wet or resinous material.

The BIOMATICH range is fitted with heavy hammers, which not only makes it unique in its category, but also assures perfect shredding of branches and twigs as well as medium-sized logs.

All controls and operations are carried out with solenoid valves and assisted by CTP (NOSTRESS).



BT81TPS

BIOMATICHLINE 75



Crawler version



BT 85 toothed chains

The TPS version of this range of hammer shredders is ready to be applied to the hydraulic lifter of any type of tractor, driven through the PTO shaft supplied. (optional drawbar and towing wheels). Compact in size, the tractor models may even be used in sites where passages are narrow.

The MTS version of this range of hammer shredders is equipped with its own engine, rigid axle and wheels, and is ready to be towed by any type of truck, on which the shredded material may be conveyed directly. The MTS versions may be equipped with height-adjustable drawbar and axle suspension for towing at 80km/h (optional), with head on turntable to position the feeding hopper in the most convenient position, turning 360°.

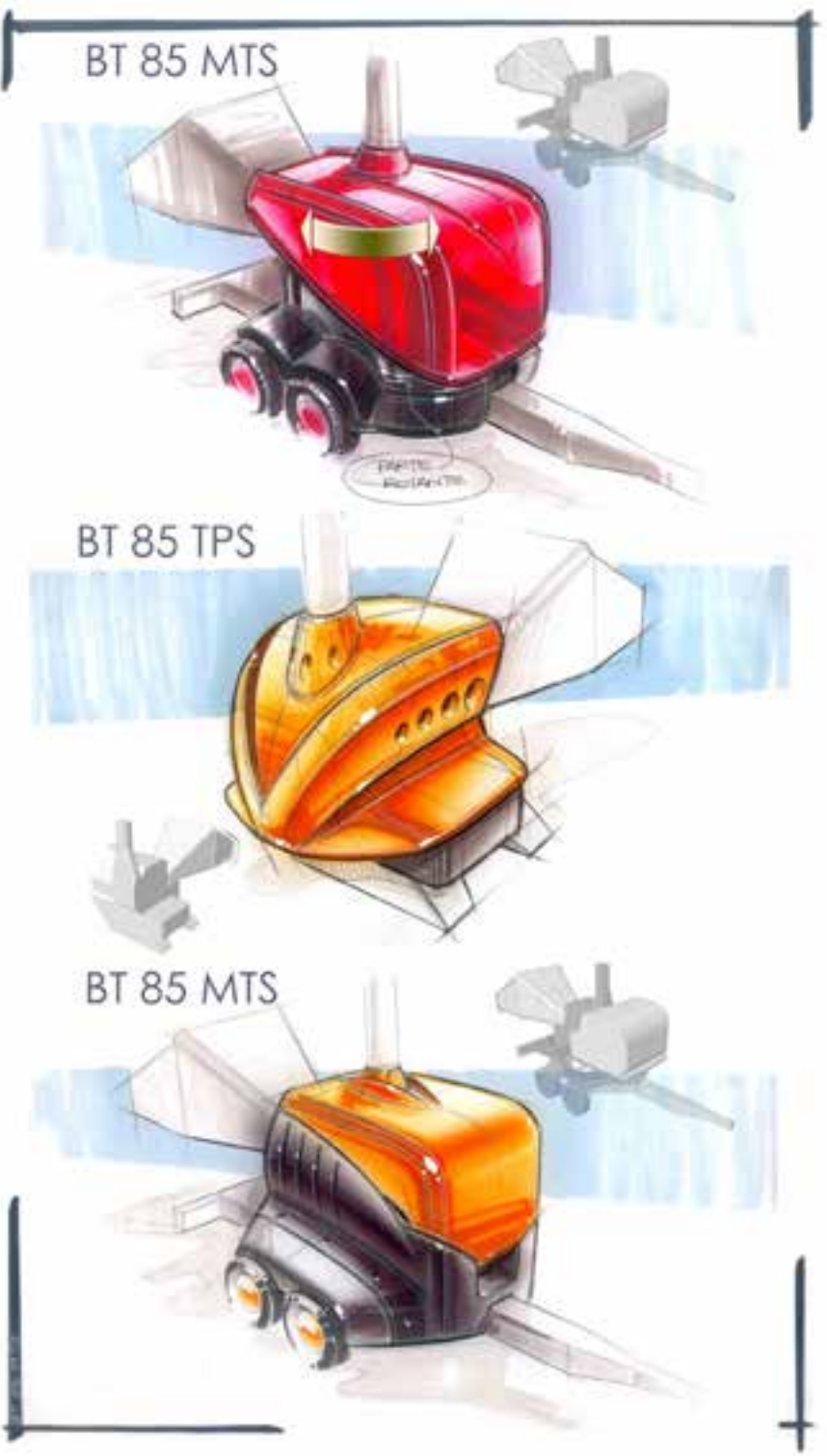
FEATURES

- Heavy hammers
- Shredding even medium sized logs
- Set of variable counter hammers
- Hammer pins in 38ncd4 steel with service life over 3000 hours
- Hydraulic system independent from the tractor
 - Double drive roller
 - Oversized rotor bearings
- All controls are electrical-hydraulic

- Dynamically balanced shredding rotor
- Extra thick steel structure
- Galvanised safety and control bar
- Flexible outfitting, on crawler, roll-off, wheelbarrow or with axle and drawbar.



BT85TPS



BIOMATICHLINE 81 85		81 TTS	81 MTS	85 TTS	85 MTS
TRACTOR POWER	cv	35-70 cv	/	50-100	/
ENGINE POWER	cv(kW)	/	28(20)	/	50(36)
NUMBER OF CYLINDERS	n°	/	3	/	4
ROTOR WIDTH	mm	250 mm	250 mm	400 mm	400 mm
NUMBER OF HAMMERS	n°	10	10	15	15
HAMMER WEIGHT	kg	2 kg	2 kg	2 kg	2 kg
HOURLY PRODUCTION	n°	15 MTC	15 MTC	25 MTC	25 MTC
MAX WOOD DIAMETER	mm	100-120 mm	100-120 mm	120-140 mm	120-140 mm
SHIPPING MEASUREMENTS	mm	1800x1200x1550 mm	2800x1550x1750 mm	1800x1300x1550 mm	2800x1850x1750 mm
MACHINE WEIGHT	kg	650 kg	950 kg	1200 kg	1450 kg
360° CHIP EJECTION		standard	standard	standard	standard
REVOLVING CHUTE		/	standard	/	standard
C.T.P. DEVICE		optional	optional	optional	optional
HOOR COUNTER		optional	optional	optional	optional
ANTINOISED ENGINE		/	standard	/	standard
LIGHTS SYSTEM		optional	optional	optional	optional
STEEL INFEEED BELT		/	/	standard	standard

LINE OF LARGE-SIZED, HIGH PRODUCTIVITY HAMMER SHREDDERS,
ITS HIGH POWER ADDRESSES THE MOST DEMANDING PRODUCTION
NEEDS.

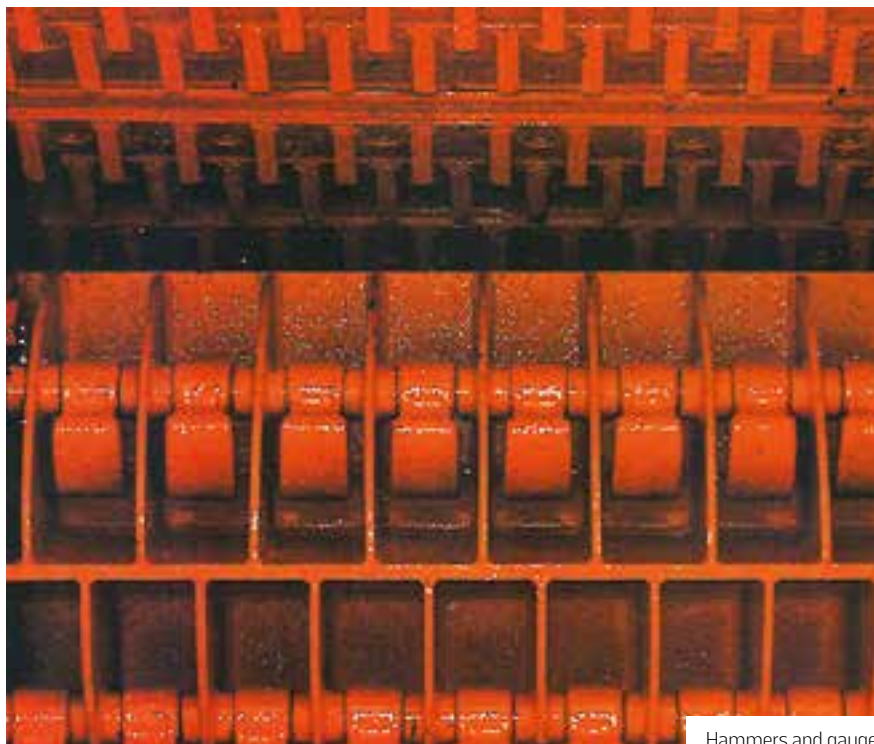
BIOMATICHLINE 89 | 91

The **BIOMATICH 89** and **91** range of highly professional, large sized hammer shredders are suitable for shredding in landfills, composting centres, waste separation and recycling centres, large nurseries and park maintenance firms, at companies for volume reduction of packaging or other bulky wood items.





BT 89 MTS



Hammers and gauge

Thanks to its very sturdy structure the **BIOMATICH** range is especially suited for heavy-duty and continuous work. Available in various outfits, driven by the tractor's PTO, with independent engine, placed on self-propelled crawler, on roll-off truck, for stationary work station with electrical motor

The shredding rotor is constructed in very thick wear-proof steel plates, the special honeycomb structure makes it sturdy and long-lasting, with high resistance to impact. Consisting of high alloy steel hammers, hot forged to have maximum sturdiness, mounted on a steel pin which permits rotation, so as to be able to retract in case of strong shocks, thereby avoiding damage. The combination of special steel results in never needing to grease the hammers since no friction or overheating is produced during operation. The shredding rotor spins on two special bearings with double row of barrel rollers and cnc machined steel support, particularly oversized, to assure long life even under particularly heavy-duty work conditions.

The hydraulic system, consisting of solenoid valves and pair of pumps with high performance cast iron flange, drives all the machine's functions, some of which are directly and automatically controlled by the electronic controls on the machine.



BT 89 TTS with Crane



BT 91 MTS

The **NOSTRESS** device, which controls the grinding stage, interrupts feeding the material when the engine's speed is excessively low and resumes automatically as soon as the engine's power picks up again.

The **NOBLOCK** device assures the material is fed smoothly by triggering in the event of accidental block of the feeding components (chain and roller)

The conveyor chain and feeder roller are driven by super-powerful hydraulic gear motors, which assure high machine productivity and safe feeding of any type of material, including very irregular in shape and bulky.

This machine may be fitted as optional with remote control to control all the machine's operations, such as actuating the chain conveyor the feeding roller and the rear baffle orientation.

This device considerably increases productivity as one operator only standing on the loading bucket is able to independently control all operations.

Bt 89-91 tts: the tts version of this range of hammer shredders, with rigid axle and wheels, is ready to be driven and towed by any type of tractor with power at least 80 hp.



BT 91 MTS



BT 91 MTS



BT 91 MTS

The large loading hopper makes it easy to feed the material to be shredded with any equipment, with wheel loader, log clamp, grapple, telescopic loader etc.

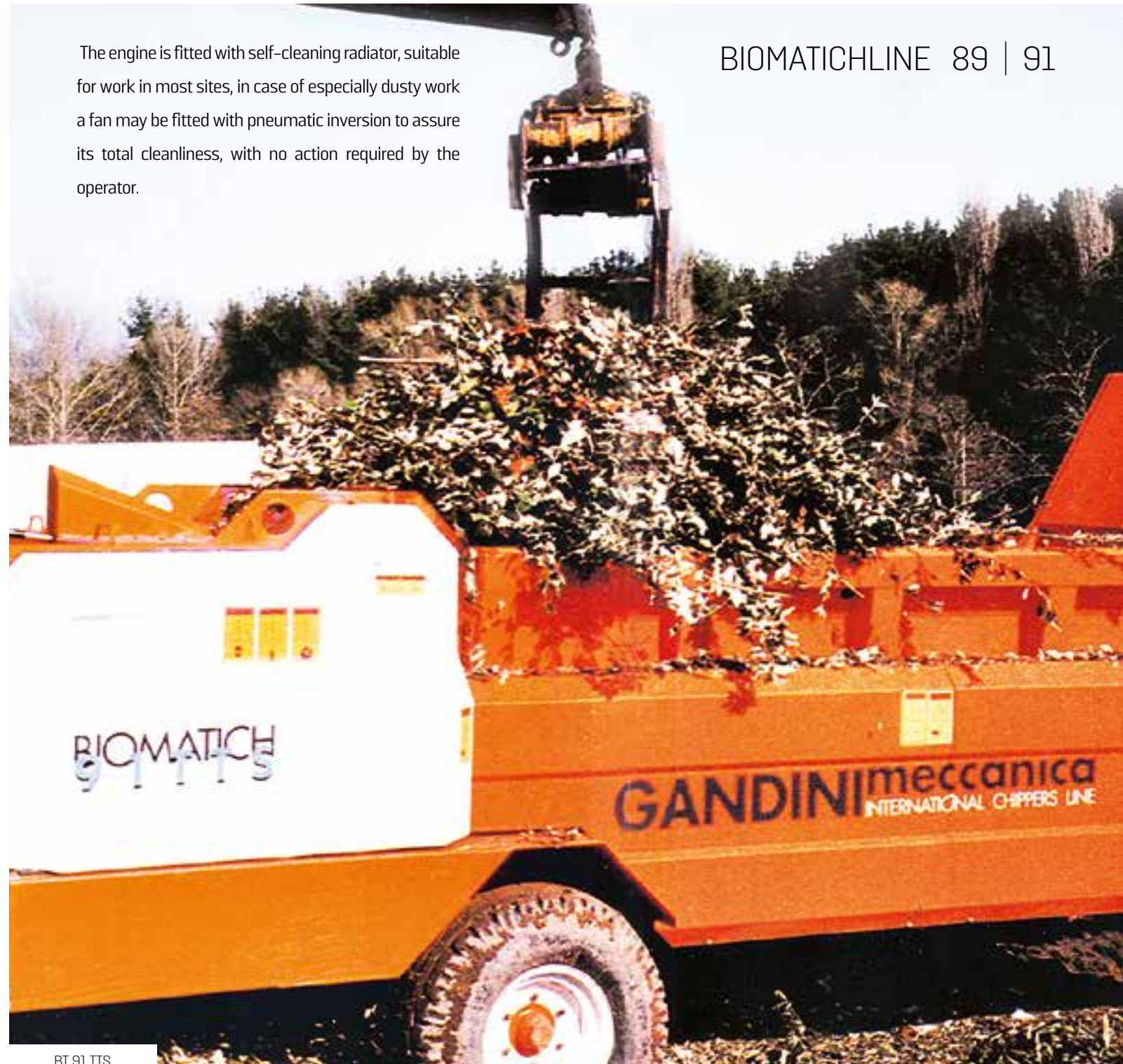
The **BIOMATCH 89** and **91** range produces shredded material arranging it in piles of adjustable height according to the specific further processing needs. It is able to shred any type of plant residue, using the rear baffle that acts as gauge with hydraulic adjustment and produces finely shredded material of adjustable size, suitable for any kind of composting or energy use.

BT 89-91 MTS: every MTS version of this series of hammer shredders, is driven by an independent diesel engine and may be towed by tractor or truck. The machine's geometry entails the engine being fitted at the front, so it is not directly in contact with dust or other residues that might affect operation, also making it more easily accessible for periodic maintenance. Motion transmission to the shredding rotor is assured by a hydraulic coupling with automatic engage and a set of V-belts with oversized section with automatic tensioning.



Hammers and gauge

The engine is fitted with self-cleaning radiator, suitable for work in most sites, in case of especially dusty work a fan may be fitted with pneumatic inversion to assure its total cleanliness, with no action required by the operator.



BT 91 TTS



Belt with steel cross beams



Toothed roller and chain

The large loading hopper makes it easy to feed the material to be shredded with any equipment, with wheel loader, log clamp, grapple, telescopic loader etc.

The BIOMATCH 89 and 91 range produces shredded material arranging it in piles of adjustable height according to the specific further processing needs. It is able to shred any type of plant residue, using the rear baffle that acts as gauge with hydraulic adjustment and produces finely shredded material of adjustable size, suitable for any kind of composting or energy use.

The machine may be fitted with rear ejection belt placed in the shredded material unloading area. This conveyor, consisting of a fully encased steel chain conveyor, makes it possible to produce higher and more adjustable heaps of material. It also makes it possible to load the shredded material directly into containers or on trucks, and to limit the production of dust in the event of dry material.

The machine may be fitted with a self-propelling device for convenient independent motion with no need for a towing vehicle.

FEATURES

- High ability to shred even very bulky and uneven material.
- The shredded material may be arranged in heaps of adjustable height.
- It shreds any type of plant residue and produces finely shredded material of adjustable size.
- The bio-shredder may be supplied with self-propulsion.
- Remote control option (optional).
- Maximum productivity thanks to the super-powerful hydraulic gear motors.
- As many as 40 shredding mallets to ensure maximum power.
- The shredded plant material may be placed in heaps of adjustable height.
- Higher and more adjustable heaps thanks to the rear outfeed belt that makes it possible to load the shredded plant material directly in a container.
- Steel shredded material outfeed belt.
- Standard Nostress device.
- Standard Noblock device.
- Outfitting with material loading crane.
- Outfitting on roll-off vehicle.
- Oversized rotor bearings.



BT 91 MTS

BIOMATCHLINE 89

- Steel rotor supports CNC machined from billet.
- Hydraulically adjustable shredded material gauge.

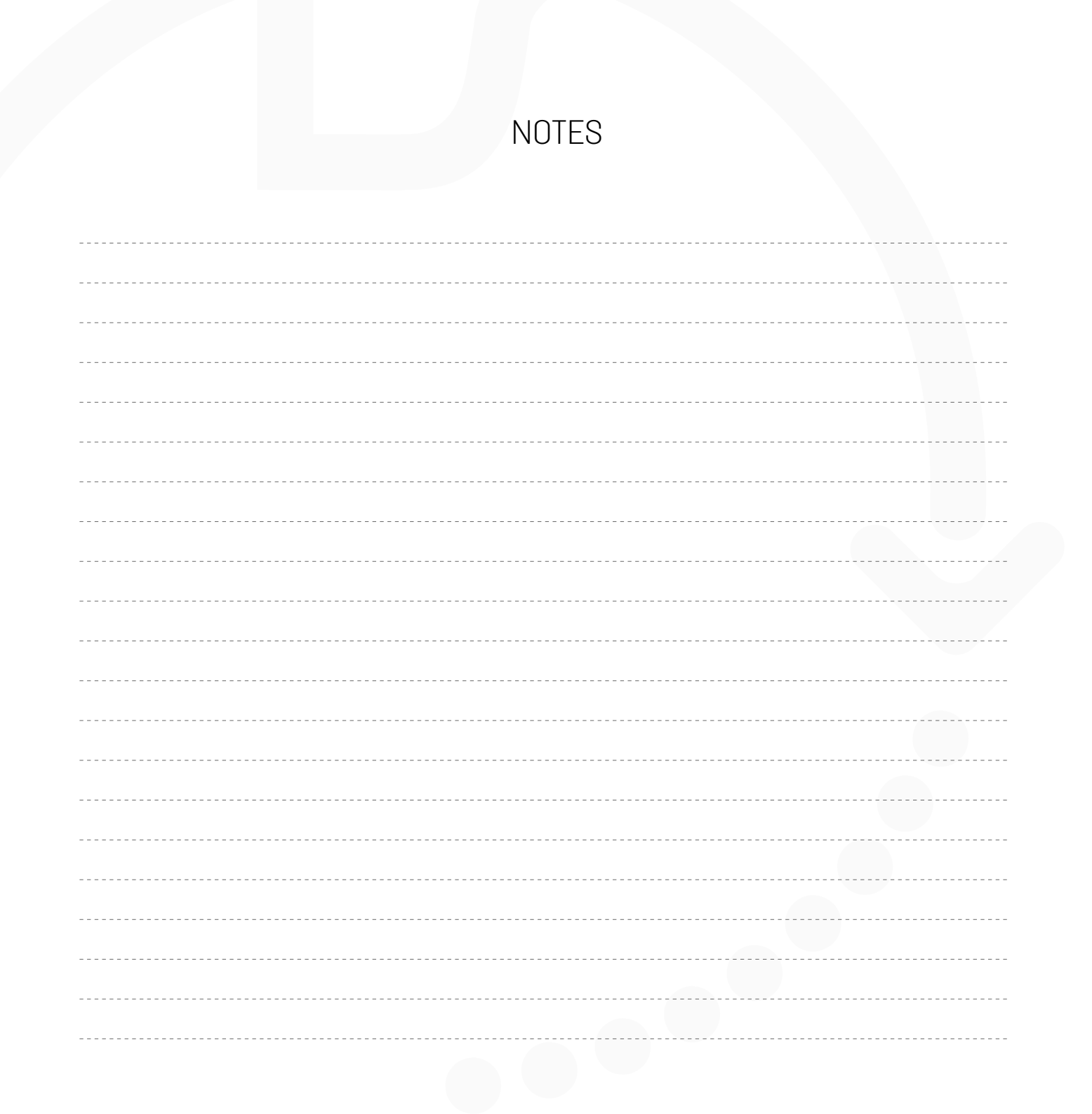


Chains of power without mainenance

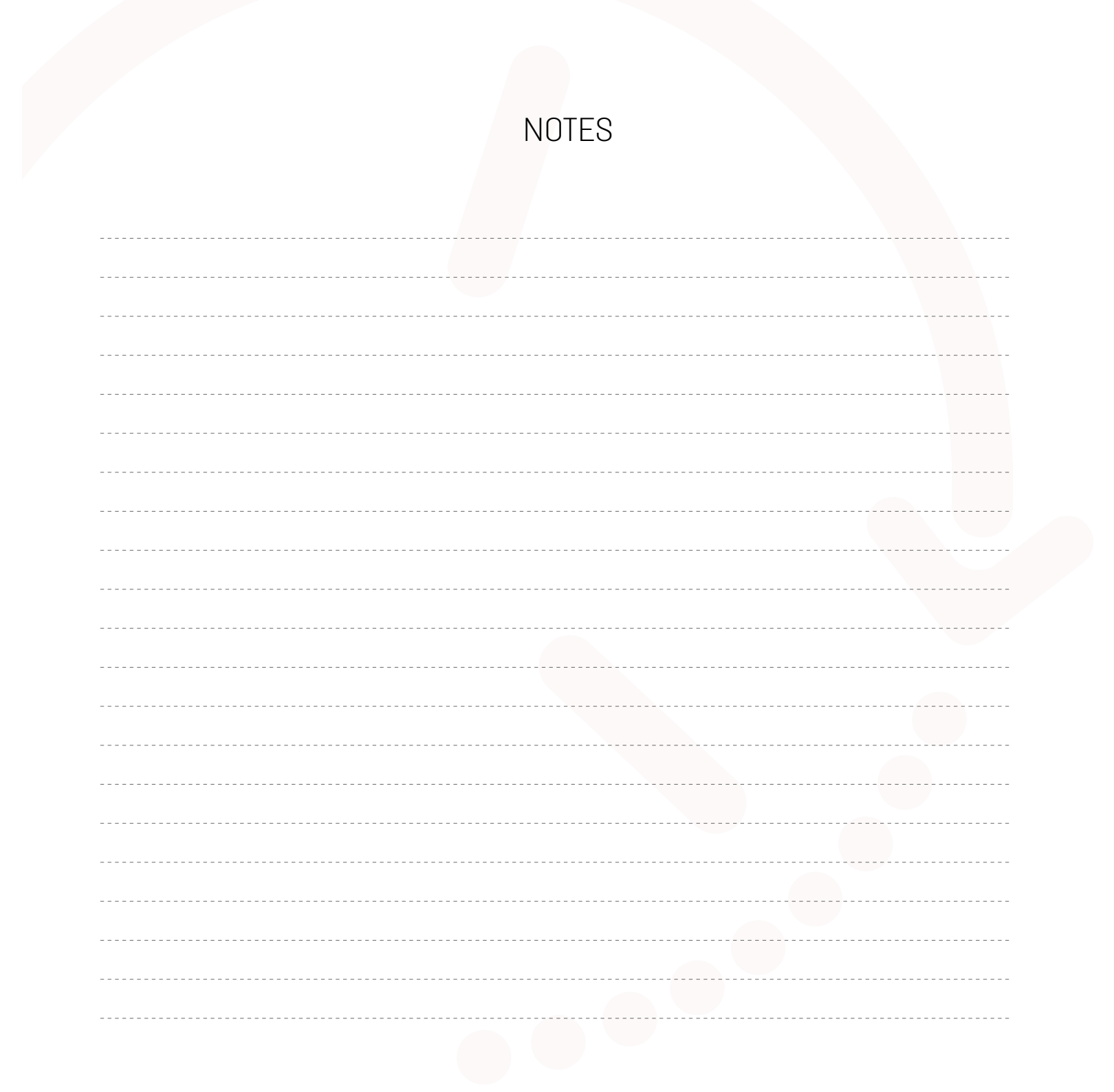


Remote control for MTS version

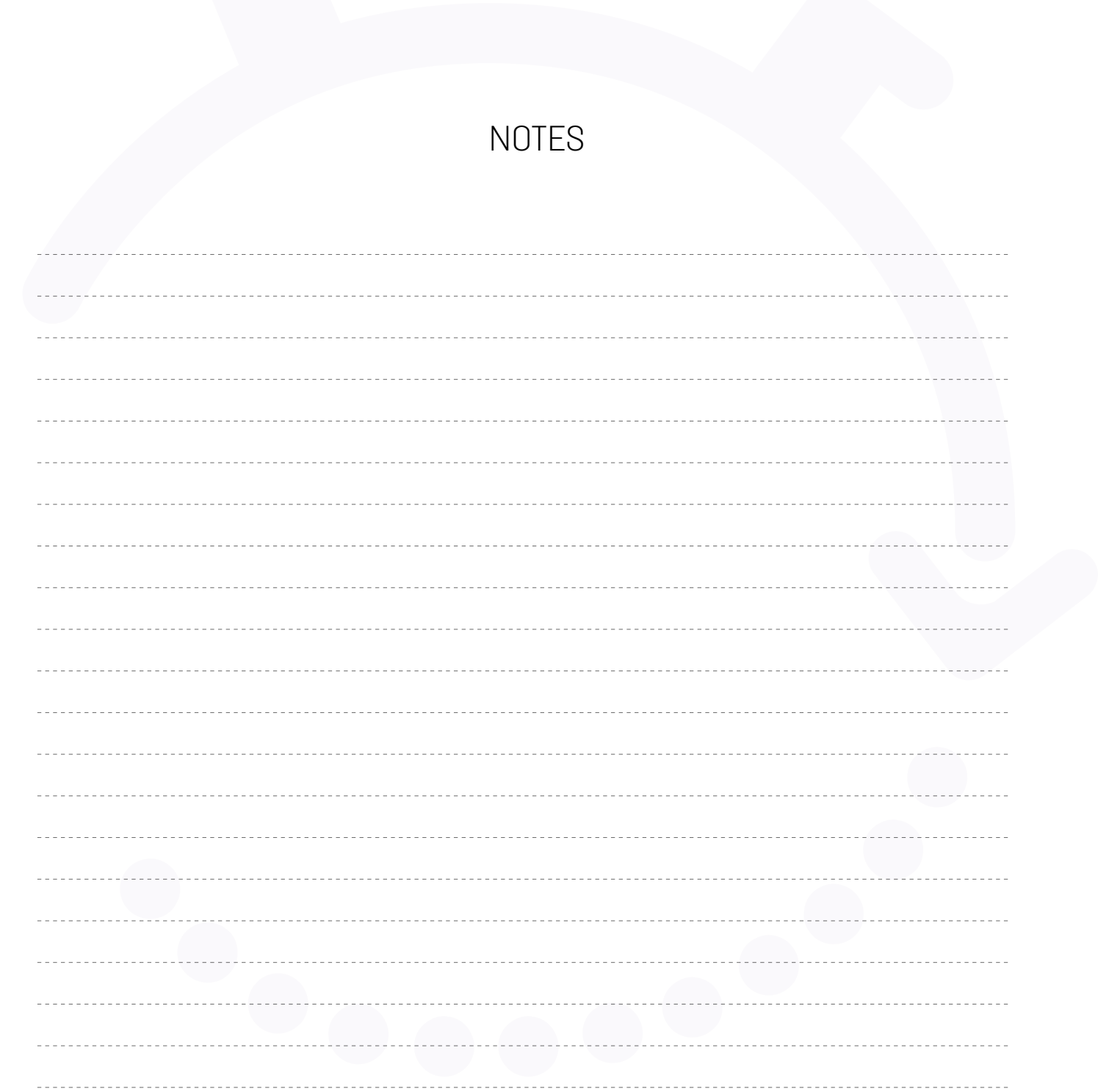
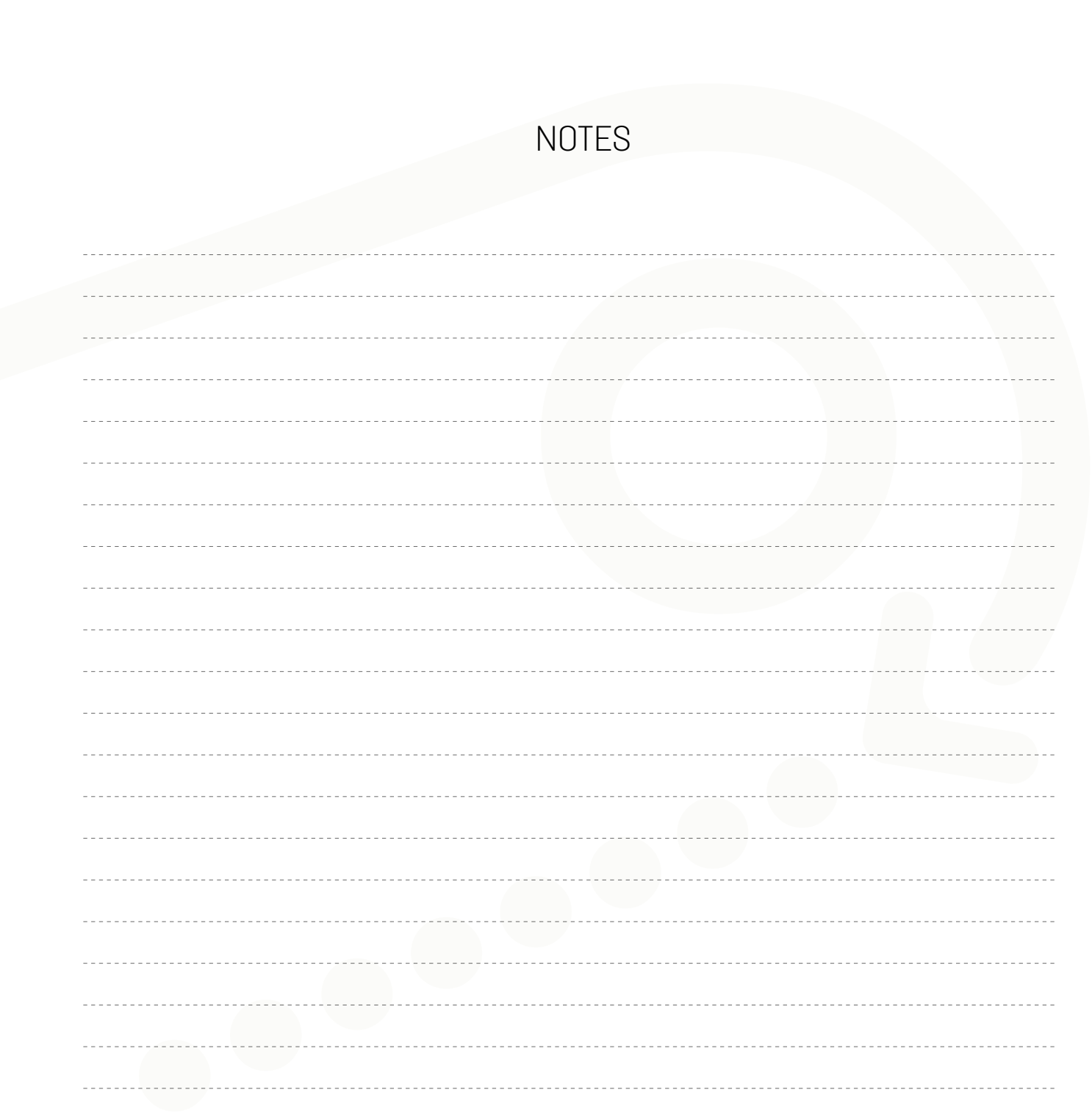
BIOMATCHLINE 89 91		89 MTS	89 MTS	91 MTS	91 MTS
TRACTOR POWER	cv	70-140	/	90-180	/
ENGINE POWER	cv(kW)	/	128(94)	/	172(126)
NUMBER OF CYLINDERS	n°	/	4T	/	6T
ROTOR WIDTH	mm	1000 mm	1000 mm	1200 mm	1200 mm
NUMBER OF HAMMERS	n°	32	32	40	40
HAMMER WEIGHT	kg	3 kg	3 kg	3 kg	3 kg
HOURLY PRODUCTION	n°	20-50 MTC	20-50 MTC	40-60 MTC	40-60 MTC
MAX WOOD DIAMETER	mm	150-250 mm	150-250 mm	160-300 mm	160-300 mm
SHIPPING MEASUREMENTS	mm	5500x2000x1900 mm	6000x2000x1900 mm	6000x2200x2000 mm	6500x2200x1500 mm
MACHINE WEIGHT	kg	4200 kg	7000 kg	5000 kg	8000 kg
C.T.P. DEVICE		standard	standard	standard	standard
HOURLY COUNTER		standard	standard	standard	standard
ANTINOISED ENGINE		/	standard	/	standard
LIGHTS SYSTEM		optional	optional	optional	optional



NOTES



NOTES





GANDINIMECCANICA
INTERNATIONAL CHIPPERS LINE

GANDINI MECCANICA S.N.C.

Via della Valletta, 5 46040 - Guidizzolo (MN) Italy

Tel.: +39 0376 818741 - Fax: +39 0376 818465

www.gandinimeccanica.com

info@gandinimeccanica.com

CAT. 3