

Chipping Line MTG

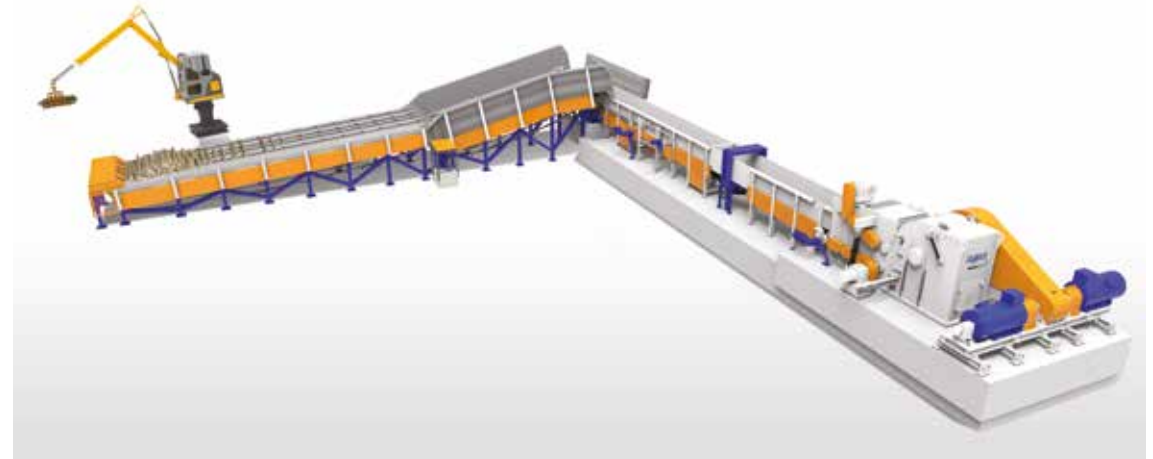
**MTG DRUM CHIPPER MODELS AND
LOG YARD MANAGEMENT**



Log yard management

Best solutions according to your needs, including:

- Chain conveyors for storage
- Roller system
- Conveyors for log dosing
- Feeding belt conveyors
- Vibrating tables and feeders
- Metal detectors



Customizable for any kind of wood, from 5t/h up to 165t/h b.d. capacity.

Suitable for:

- Particle board line
- MDF line
- Pellet
- Biomass
- OSB Macro Chips line
- Veneer waste, slabs, roots
- Recycling wood



Log yard management



Log Chain Conveyors



Vibrating feeders



Debarking solutions



- High-efficiency debarking, achieving up to 98% bark removal
- Boogie drive system with optimized gearing, reducing installed power by 50% for energy savings
- Continuous log feeding for seamless chipping line operation
- Hydraulically driven sliding gate, integrated with a dedicated hydraulic control system for smooth operation

Cleaning rollers and electro-magnetic plates

- Screening bed with steel star shafts, available with cam-shaped sections or interconnected disks, for efficient removal of bark and contaminants
- Maintenance-free bearings and a robust transmission system for longlasting performance
- Adjustable working speed to match the chipping process requirements
- Reversible flow direction for enhanced flexibility and adaptability



- Magnetic field made of magnetic ferrite C8
- Closing shell made of stainless steel AISI 304
- Cooling Fan
- Hydraulic system for plate opening



Belt conveyors



Belt conveyors for any need:

- NTL - LITE version
- NTM - MEDIUM version
- NTH - HIGH version

Any model equipped with:

- Polizene metal detector zone
- Central tensioning
- Pressure roller
- Impact zone
- Polizene floor for high speed
- Additional side wall





Calculation for chippers production

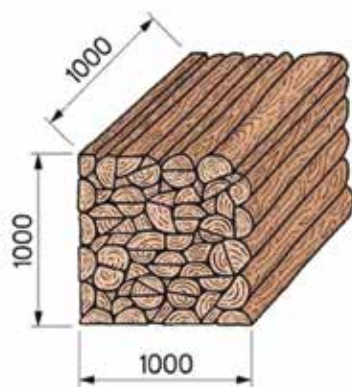
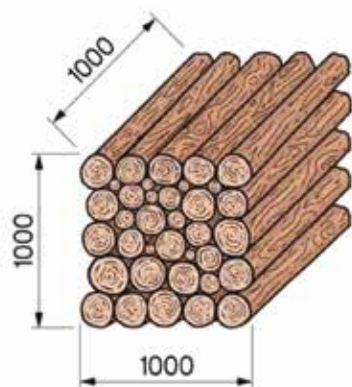
Everyone knows that wood is a precious raw material which is becoming an increasingly scarce resource. Recovering and recycling wood is not only economically profitable but it is also an extremely useful way of protecting the environment.

With our drum chippers it is possible to convert waste wood into good chips suitable for particleboard, MDF and paper mills.

Globus chippers are designed with a modular construction and are able to suit any specific requirement.



1 stere = 0.75 m³ solid = 2 steres chips
 1 m³ solid = 1.33 stere = 2.6 steres chips
 1 stere = 0.6 m³ solid = 1.4 steres chips
 1 m³ solid = 1.66 stere = 2.6 steres chips



Drum Chipper Model MTG

Over the years, Globus has developed a wide range of drum chippers, with capacities ranging from 5 t/h to 165 t/h BD.

The MTG series offers flexible machine configurations, allowing the production of standard MDF/PB chips, MICROCHIPS, or SUPERCHIPS for low-density PB and OSB strands.

Designed for continuous 24-hour operation (excluding knife replacement), our chippers ensure consistent, high-quality output tailored to customer specifications.

Additionally, the hardened toothed rollers provide a lifespan five times longer than standard market alternatives, reducing maintenance costs and downtime.





150t/h



5t/h



25t/h

Technical features

- Two knife clamping systems: mechanical bolt system or centrifugal wedged shaped system, adaptable to various applications
- Rotor diameters ranging from 600 to 2400 mm, with 3 to 6 knives, for different processing needs
- Interchangeable screens, with a two-part screen design for quick replacement on large machines
- Hardened steel feeding rollers with precision-cut edges for durability and efficiency
- Robust drive system with double pinion/key block system and ring feeder, ensuring powerful transmission and easy maintenance
- Automatic rotor positioning for safer and faster knife changes (available on large models)
- Hydraulic or soft-start acceleration unit for smooth operation
- Hydraulic counterknife ejection system for easy maintenance
- Side inspection door for quick and convenient screen checks

Benefits



- Efficient processing of various wood log sizes and materials
- Optimal log alignment for high-quality cutting with minimal oversize output
- Quick knife and counterknife replacement to reduce downtime
- Minimal maintenance requirements for increased uptime

Drum with centrifugal or clamping knife

The number of knives and a different drum design may be used to vary chip dimensions to meet specific requirements.

- Knife mechanical clamping rotor



- Centrifugal wedge knife clamping rotor



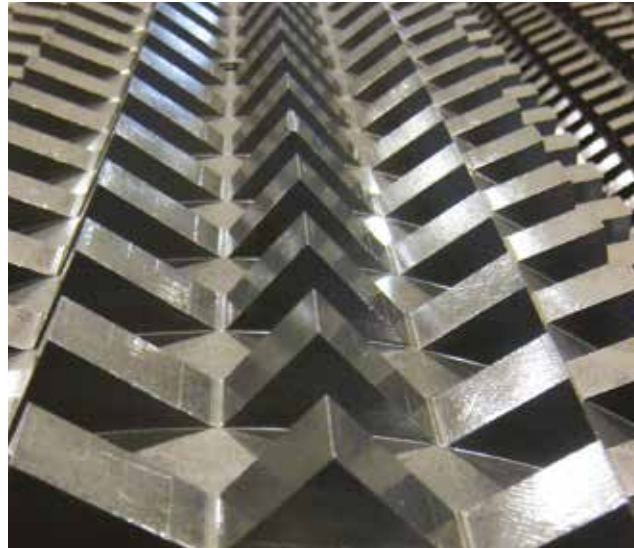
Robust frame for heavy duty work

All mechanical parts, including larger ones, are fully tooled before and after the welding process. This ensures the utmost precision and proper assembly of all moving parts. It is possible, in this way, to eliminate one of the most frequent causes of vibration.



Infeed rollers

Toothed rollers



Sector rollers in cast-iron



Taking care of every detail

- Driving group with twin or single motor up to 2000kW
- Possibility of complete disassembling of the rotor unit which, in addition to facilitating maintenance, saves on transport



- Protection for the operator's feet during knife change
- Back inspection door, in order to easily check the internal body machine, visual inspection of the screen

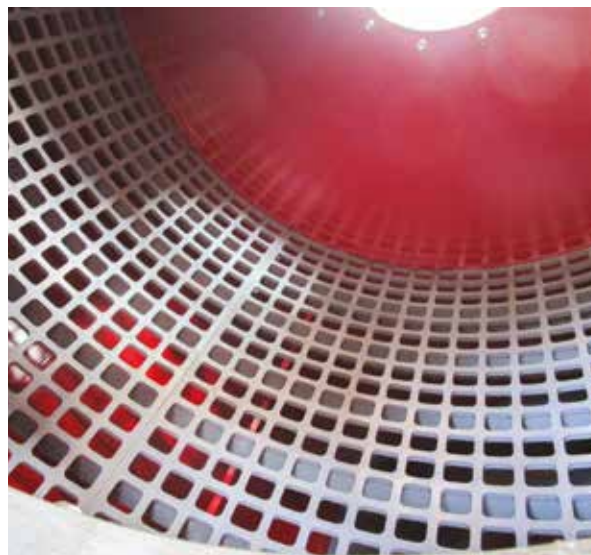


Technical details

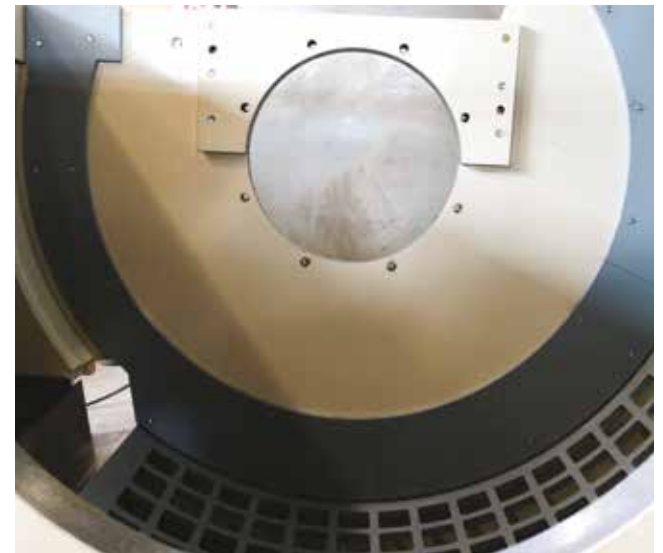
- Hydraulic acceleration group for reliable start of the main motor
- Taper lock pulleys and pinions are easily dismantled without the need for special equipment, even after many years of service



- Robust screens made from wear-resistant steel are divided into two halves on the larger-sized models. Easy assembly and reduced maintenance costs
- Hydraulic ejection of the counterknife. Counterknife protected by interchangeable wear plates



Special configuration for recycling



Option to reinforce the drum chipper structure by wear plates and special screen in hardox steel.

Technical data

MODEL	MATERIAL INFEED SECTION	DRUM DIAMETER	KNIVES	MAIN MOTOR POWER	WEIGHT WITHOUT MOTOR	CAPACITY		
serie h & l	mm h x w	mm	no.	kW	kg	t/h b.d.	m³/h solid	r.m. chips/h
MTG 20.050H-2R	200 x 500	600	2 / 3	45	2100	8	18	94
MTG 24.055H-4R	240 x 550	800	2 / 3	90	5100	10	22	57
MTG 35.065L-6R	350 x 650	800	2 / 3	160 / 200	8000	13	29	75
MTG 35.065H-6R	350 x 650	1000	2 / 3	160 / 200	9000	20	44	116
MTG 35.085L-6R	350 x 850	1000	2 / 3	200 / 150	10000	26	58	150
MTG 35.105H-6R	350 x 1050	1000	2 / 3	250 / 315	11000	31	69	179
MTG 40.085L-6R	400 x 850	1000	2 / 3	200 / 250	10000	26	58	150
MTG 40.085H-8R	400 x 850	1300	3 / 4	250 / 315	14000	30	67	173
MTG 40.105L-6R	400 x 1050	1000	2 / 3	250 / 315	11000	31	69	179
MTG 40.105H-8R	400 x 1050	1300	3 / 4	315 / 450	18000	37	82	214
MTG 50.105L-8R	500 x 1050	1300	3 / 4	315 / 450	18000	37	82	214
MTG 50.105H-10R	500 x 1050	1600	3 / 4 / 5	400 / 500	26000	50	111	289
MTG 50.125L-8R	500 x 1250	1300	3 / 4	400 / 500	21000	44	98	254
MTG 50.125H-10R	500 x 1250	1600	3 / 4 / 5	500 / 630	28000	60	133	347
MTG 50.145H-10R	500 x 1450	1600	3 / 4 / 5	500 / 750	34000	65	144	376
MTG 60.105L-10R	600 x 1050	1600	3 / 4 / 5	400 / 500	26000	50	111	289
MTG 60.125L-10R	600 x 1250	1600	3 / 4 / 5	500 / 750	32000	60	133	347
MTG 60.145L-10R	600 x 1450	1600	3 / 4 / 5	500 / 750	37000	65	144	376
MTG 85.105H-13R	850 x 1050	2000	4 / 5 / 6	750 / 1000	45000	80	178	462
MTG 85.125H-13R	850 x 1250	2000	4 / 5 / 6	1000 / 1200	50000	95	211	549
MTG 85.145H-13R	850 x 1450	2000	4 / 5 / 6	1000 / 1200	60000	110	244	636
MTG 105.145L-15R	1050 x 1450	2200	4 / 5 / 6	1000 / 1400	70000	130	289	751
MTG 105.145H-15R	1050 x 1450	2400	4 / 5 / 6	1200 / 1400	75000	140	311	809
MTG 105.165L-15R	1050 x 1650	2200	4 / 5 / 6	1200 / 1600	82000	150	333	867
MTG 105.165H-15R	1050 x 1650	2400	4 / 5 / 6	1200 / 1600	88000	160	356	924

Each model can be customized according to clients needs

Prodotto in Italia

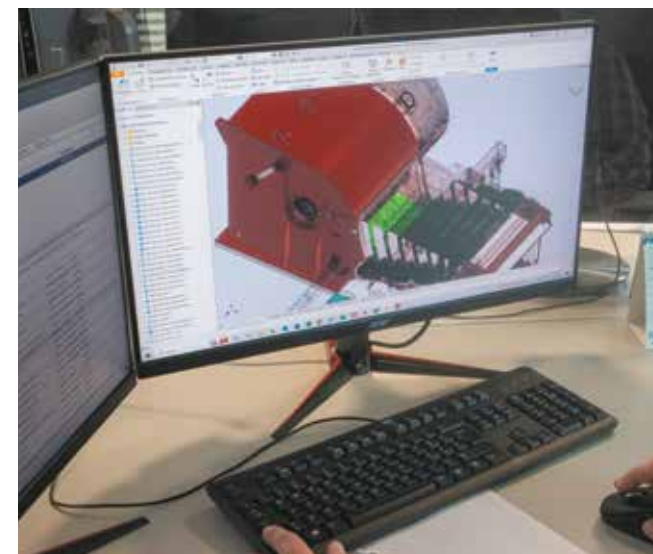


Our design and construction idea is based on the customer's needs and the material we need to grind.

Providing valid technological solutions is an integral part of our daily life.

Each component is designed and manufactured in Italy in our headquarters in Galliate, just 20 minutes from Milan.

Italy is a nation of great excellence in the field of technology and innovation. The spirit of research and the continuous pursuit for innovation are factors that have always characterized our growth and that have allowed us to become a reference in the world of woodworking machines.



IMALPAL Group



The IMALPAL Group is formed from the union of three major corporations, IMAL, PAL and GLOBUS, three well familiar names in engineering machinery and plants for the wood-based panel and recycling industries for over 50 years, and renowned worldwide for their long experience in the design and construction of complete plants and machinery to convert and transform raw wood-based materials and all kinds of waste in general into new ecological and eco-sustainable finished products. PSP and ITALSORT joined the group respectively in 2015 and 2020, completing the range of products.

Today the IMALPAL Group has further expanded its specialization and leadership into broader fields through new acquisitions and the continual research and development of new technologies, many of which have been patented.

The Group is able to offer tailor-made and turnkey solutions for the manufacture of machinery or complete plants for the production of PB\SPB, MDF\HDF, OSB\LSB\FOSB panels, insulation board, pellets, pressed pallets, pallet blocks, biomass energy plants, drying systems and power generation, as well as the treatment of industrial and municipal waste such as plastic, sludge and wood to maximize material recovery for the production of energy and minimize

the waste to landfill sites. The systems and equipment manufactured by the IMAL-PAL Group are renowned worldwide for their top-quality construction and design, advanced software and process control and continual innovations to improve product quality and cut production costs. Over the last ten years however, in their constant endeavour to evolve and progress, the Group has adapted and applied their long experience, know-how and innovative solutions to design and develop technical solutions that are the Best Available Technologies acknowledged on a worldwide scale.



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