GOVONI S.R.L. HANDLING Systems

YOUR EXPERTS
IN METAL CHIPS

GENIUS-SL

Chips treatment kit

A GENIUS SYSTEM

IDEAL TO RECOVER OIL FROM LONG, TANGLED AND BUSHY CHIPS ACCUMULATED INSIDE CARTS

TO BE STORED IN ONE OR MORE SILOS

EVEN WITH SOLID PIECES

TECHNICAL DESCRIPTION AND OPERATION

The chip skein discharged into the **vertical shredder** hopper is captured by the rotating arm and, thanks to the chamber's profile and sharp blades, it is compressed onto the grinding unit for a complete shredding. If a solid piece falls into the shredding chamber, the system reverses rotation until it stops and the **ejection door** opens.

After shredder discharge, a **vibroscreen** blocks the expelled pieces and deviates them into the appropriate box and lets the shredded chips fall into the **1st screw unit** with horizontal and vertical collectors**,** which lifts them to a proper height and discharge them into the continuous cycle **centrifuge**. Thanks to the differential between the force generated on chips and that exerted on oil, this latter is separated from chips by passing through a large perforated grid and then discharged, via a special tube, into the **collection tank**. The de-oiled chips are instead pushed by the rotary movement to rise up the drum until they pass its edges and then detach and bounce on the opposite anti-wear wall and then fall, through a special outlet, into the **2nd screw unit** with horizontal and vertical collectors. This then lifts and discharges chips into the top of the **silo** outside**.**

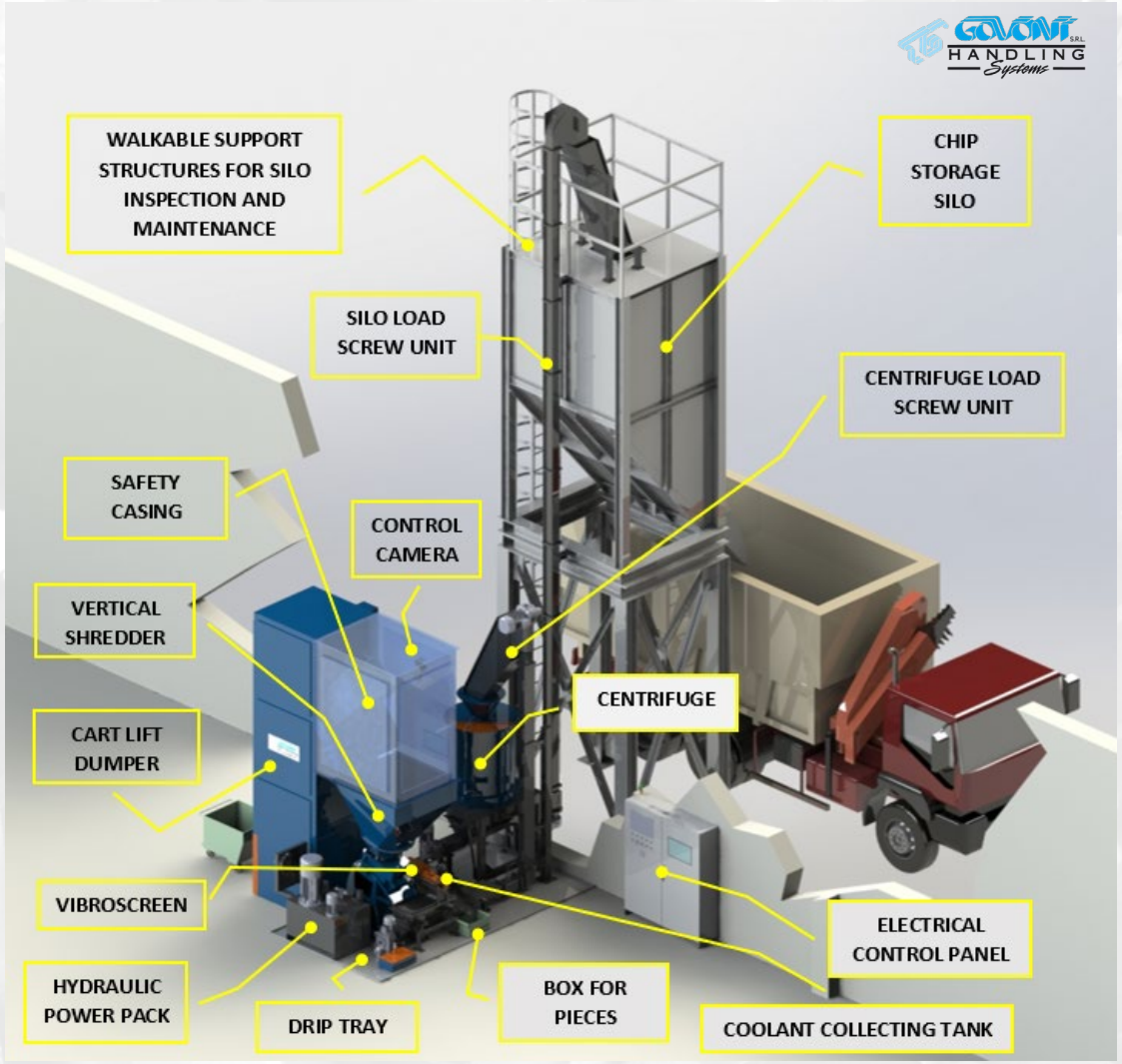
The silo is equipped with a **structure for inspection or maintenance** consisting of a vertical ladder with safety cage and a walkable platform with protective railing.

Most of the components are placed on a sheet metal **drip tray,** which prevents oil from spilling onto the floor, in compliance with environmental health and ecology criteria.

To avoid difficult and dangerous forklift maneuvers, it is also possible to equip the system with a **cart lift dumper and its safety casing** to unload carts automatically, so that the operator can be free immediately after starting the system.

If necessary, it is also possible to equip the kit with other **optionals** such as **skein pusher** to press and prevent the skein from floating getting a faster shredding too**, dredge** that scrapes sludge from the bottom of the tank to discharge it into an appropriate **box** and one of the various oil filtration systems such as **magnetic filter**, **gravity band filter** or one of the most advanced **superfiltration systems up to 3 µ.**

All models in this series are equipped with a **control mirror** above the hopper to monitor its filling level and grinding chamber from below. Alternatively, a **video camera** can be installed on the control panel, to monitor both on the same panel display and remotely.



The **electrical panel** consists of a painted steel case placed in a convenient position. On the front of the panel there is an operator interface panel with controls, operating signals, alarms and safety devices. The panel also includes a **digital diagnostic system** for detecting work cycles, oil flow using a flow meter, start-stop, alarm states, consumption and other useful system data that contribute to creating a multifunctional tool with network dialogue for data collection and storage, following the Transition Plan purposes. Another innovative aspect that is much appreciated by industry professionals is that after a certain number of hours of operation, **ordinary and extraordinary maintenance alerts** appear on the panel display to remind of the necessary interventions.

All the elements of the system can be easily inspected for checks and maintenance. Each component is equipped with suitable **accident prevention protections** compliant with current regulations, so that no moving or dangerous parts come into contact with the operator.

Upon request, it is also possible to activate **remote assistance** contracts which, in case of need or emergency, provide a telephone support service by our specialized personnel to the maintenance personnel to identify the problem and possibly intervene on the electrical panel remotely to restore the system's operation.

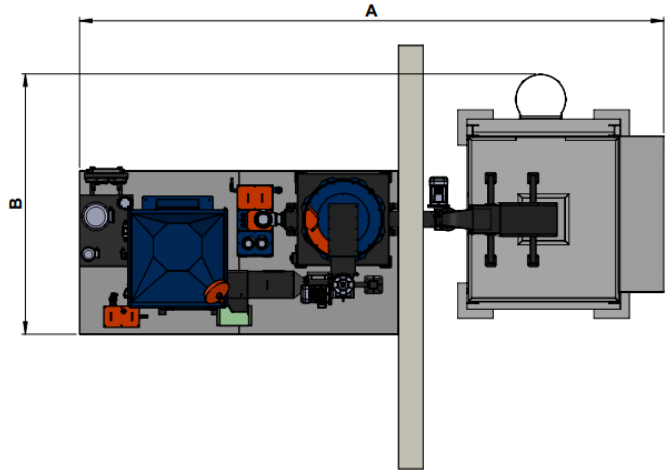
GENIUS-SL - BENEFITS

- SOLID, STURDY, DURABLE AND…. GENIUS
- COMFORTABLE AUTOMATIC FILLING SYSTEM AND STORAGE SILO (VERTICAL, BRIDGE OR HOPPER MODELS)
- WIDE RANGE OF MODELS WITH MAX CAPACITIES FROM 700 TO 2,500 DM^3/H
- SUITABLE FOR MEDIUM, LONG AND BUSHY CHIPS
- HIGH DRYING EFFICIENCY UP TO 99.8%
- ABLE TO SEPARATE DIFFERENT TYPES OF PIECES AUTOMATICALLY
- WITH LARGE HOPPER TO ACCUMULATE UP TO 1,500 LITERS OF CHIPS
- OIL COLLECTION TANK INCLUDED
- DRIP TRAY INCLUDED TO PREVENT OIL SPILLS
- 5.0 ELECTRICAL PANEL
- MAINTENANCE ALERTS ON DISPLAY
- CUTTING-EDGE DIGITAL DIAGNOSTICS
- TELESERVICE
- WIDE RANGE OF ACCESSORIES AVAILABLE

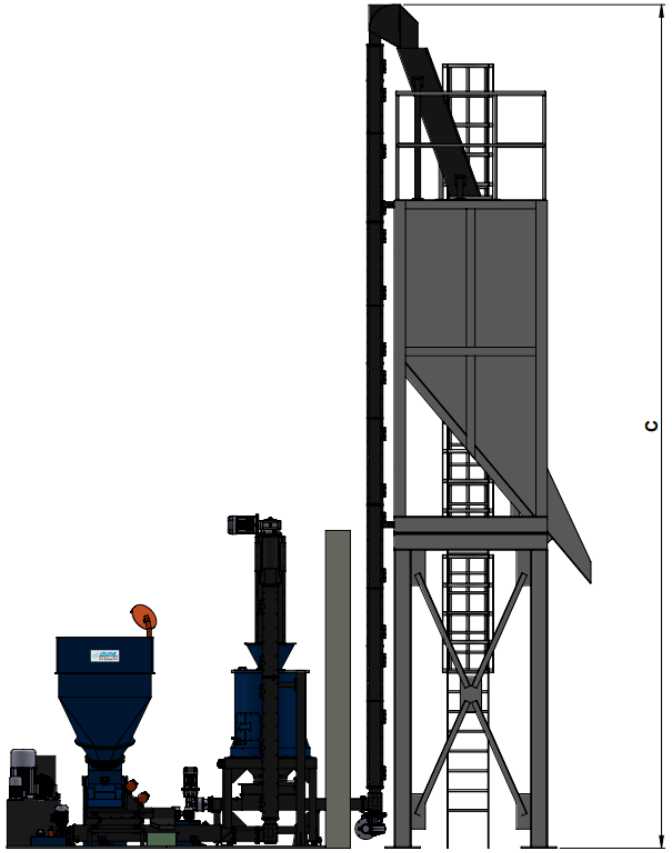
SERIES	MODELS				
GENIUS-SL	**GN-SL1**	**GN-SL2-E**	**GN-SL2-H**	**GN-SL3**	**GN-SL4**
MAX CAPACITY*	700 dm^3/h	1,100 dm^3/h	1,100 dm^3/h	1,500 dm^3/h	2,500 dm^3/h
LOADING HOPPER	√	√	√	√	√
HOPPER CAPACITY	500 litri	1,000 litri	1,000 litri	1,500 litri	1,500 litri
SHREDDER	TR-V7	TR-VH11	TR-VH18	TR-VH22	TR-VH30
AUTOMATIC PIECE EJECTOR (FOR SHR.)	√	√	√	√	√
BOX FOR PIECES	√	√	√	√	√
VIBROSCREEN	√	√	√	√	√
CENTRIFUGE LOAD SCREW UNIT	√	√	√	√	√
CENTRIFUGE	CF-CC4	CF-CC5	CF-CC5	CF-CC5	CF-CC6
TANK WITH WASHING PUMP + BOOSTER PUMP AND LEVELS	√	√	√	√	√
DRIP TRAY	√	√	√	√	√
SILO LOAD SCREW UNIT	√	√	√	√	√
SILO	√	√	√	√	√
STRUCTURE FOR SILO INSPECTION AND MAINTENANCE	√	√	√	√	√
CONTROL MIRROR	√	√	√	√	√
5.0 ELECTRICAL CONTROL PANEL AND WIRING	√	√	√	√	√
HYDRAULIC POWER PACK	-	-	√	√	√
SKEIN PUSHER	optional	optional	optional	optional	optional
CART LIFT DUMPER WITH SAFETY CASING	optional	optional	optional	optional	optional
AUTOMATIC 2nd CONTAINER FILLING SYSTEM	optional	optional	optional	optional	optional
TANK BOTTOM DREDGER WITH SLUDGE BOX	optional	optional	optional	optional	optional
MAGNETIC FILTER	optional	optional	optional	optional	optional
GRAVITY BAND FILTER	optional	optional	optional	optional	optional
SUPERFILTRATION UP TO 3 µ	optional	optional	optional	optional	optional
CONTROL VIDEO CAMERA	optional	optional	optional	optional	optional

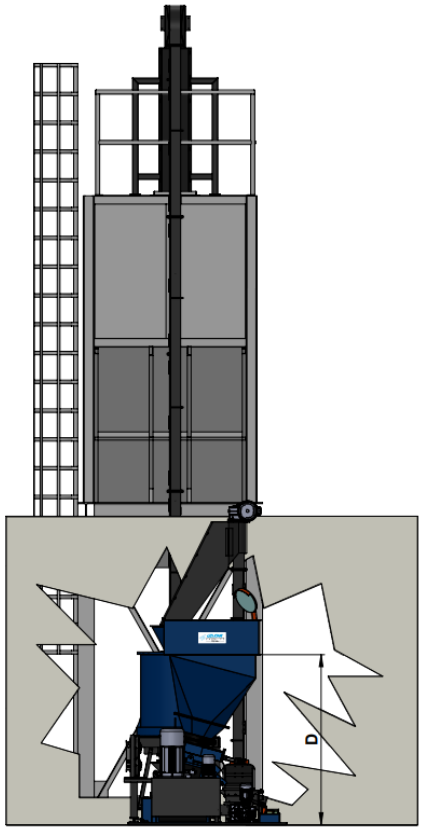
* Indicative data that may vary depending on chip shape, type of material and frequency of the pieces.
For capacity higher than those mentioned above, please send a specific request.

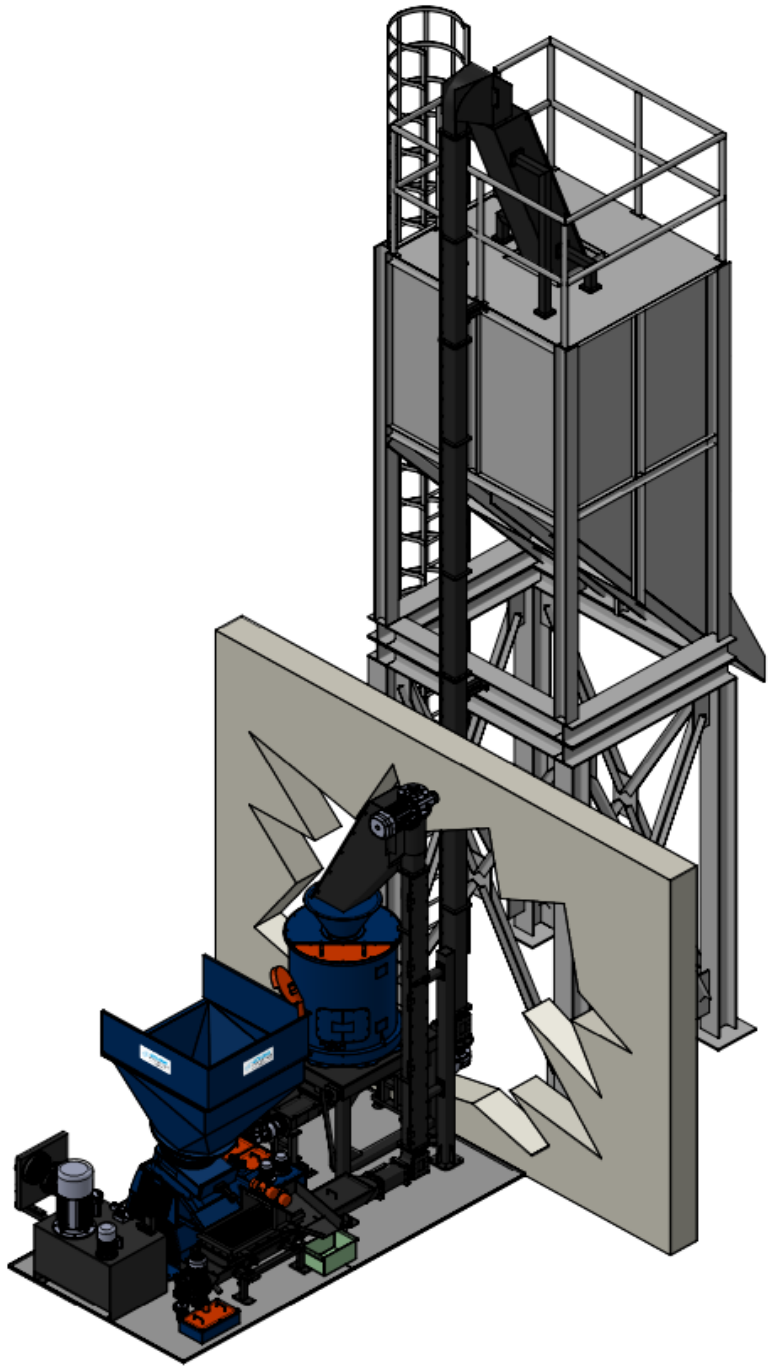
GENIUS-SL _ GN-SL2-E MODEL



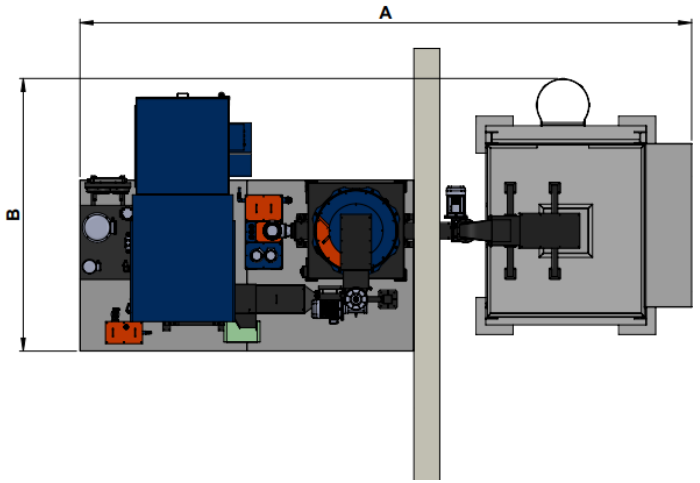
TECHNICAL DATA	GN-SL2-E
A (mm)	8,300
B (mm)	3,700
C (mm)	11,950
D (mm)	2,500
Total weight (kg)	16,000
Total power (kW)	35.0







GENIUS-SL _GN-SL2-E MODEL WITH LIFT DUMPER



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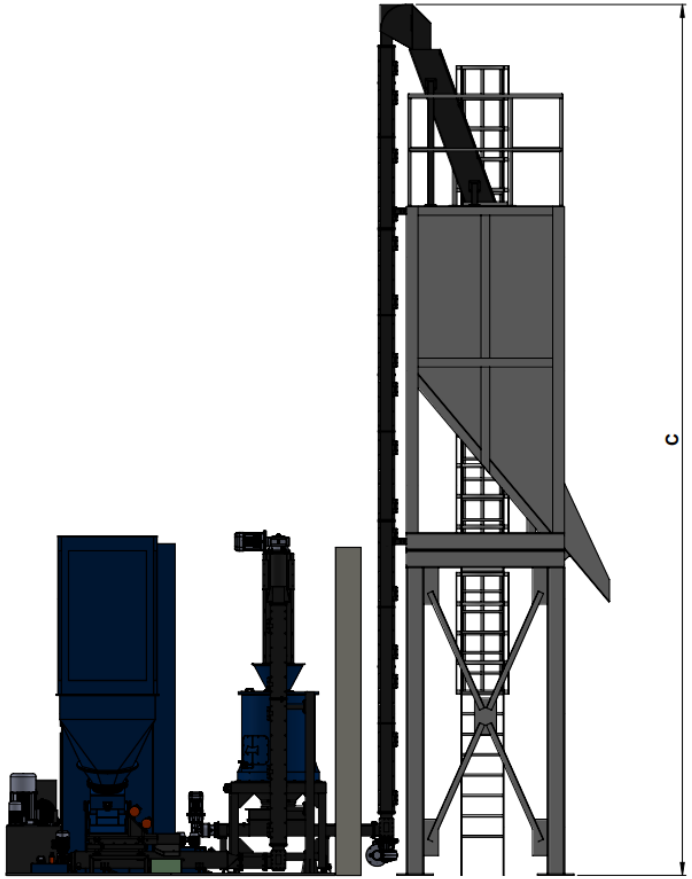

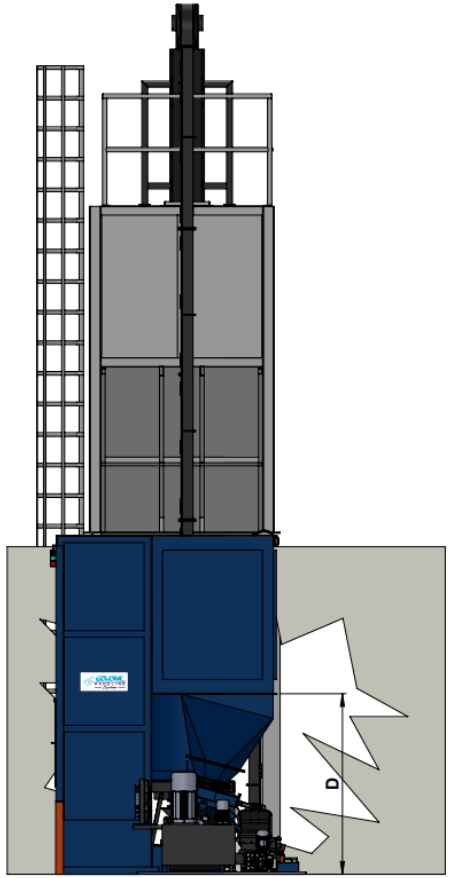

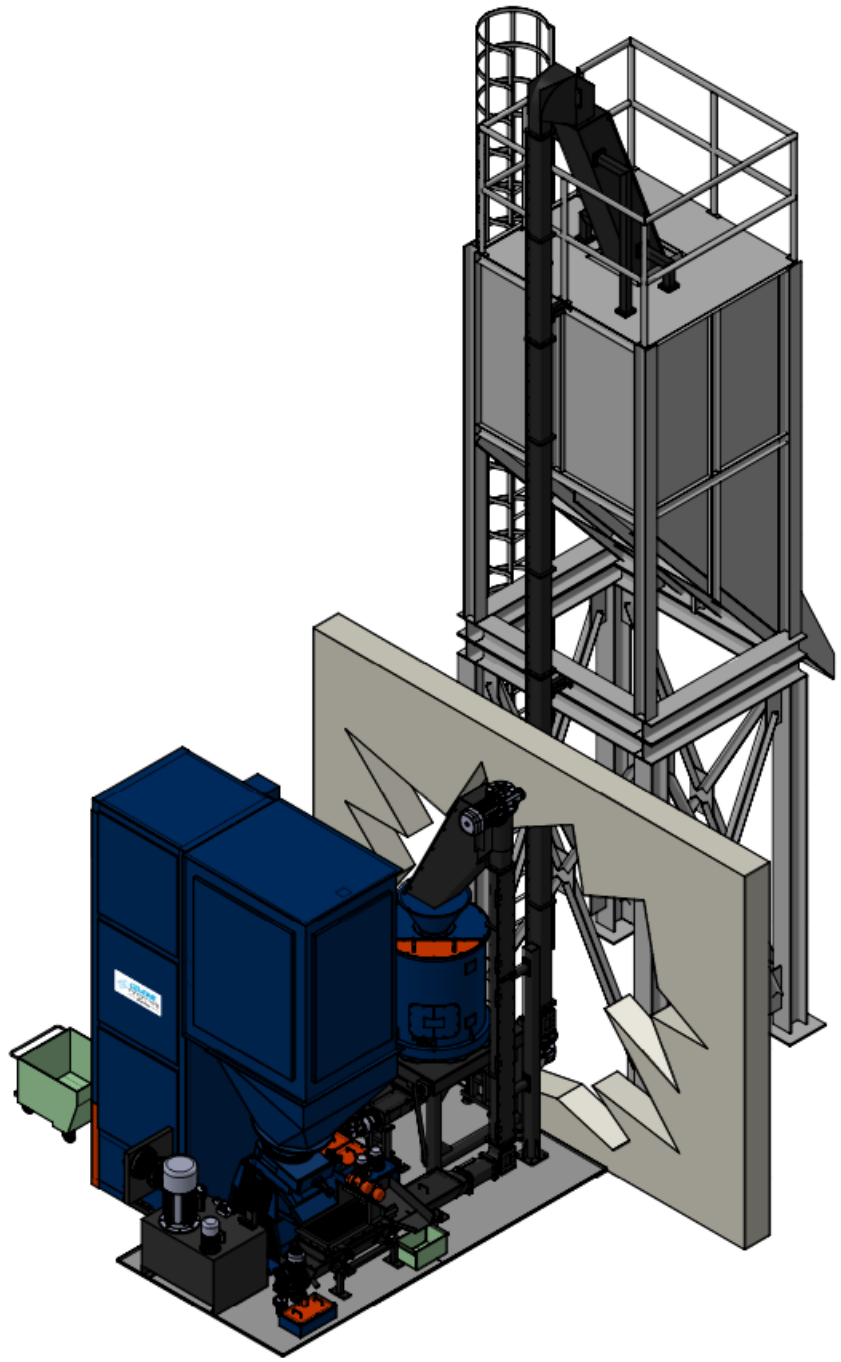

Products

- Centralized screw systems for metal chips transport
- Centralized pneumatic vacuum systems for metal chips transport
- Chips treatments and oil recovery kits
  - Cut&Dry
  - Kid
  - Zed
  - Slim
  - Slim-SR
  - Genius
  - Genius-SR
  - **Genius-SL**
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- Hinged belt conveyors
- Machine tools evacuators
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- Shredders
- Centrifuges
- Lift dumpers
- Chip storage silos

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YOUR EXPERT IN METAL CHIPS