GOVONI S.R.L. HANDLING Systems

YOUR EXPERTS
IN METAL CHIPS

HINGED BELT EVACUATORS

TO BRING METAL CHIPS OUT OF MACHINE TOOL

WITH PLATES JOINED TO EACH OTHER BY MEANS OF CONNECTING PINS INSIDE CURLS AND FIXED TO CHAIN FOR DRIVE

WITH A PERFECTLY INTEGRATED TANK TO COLLECT COOLANT

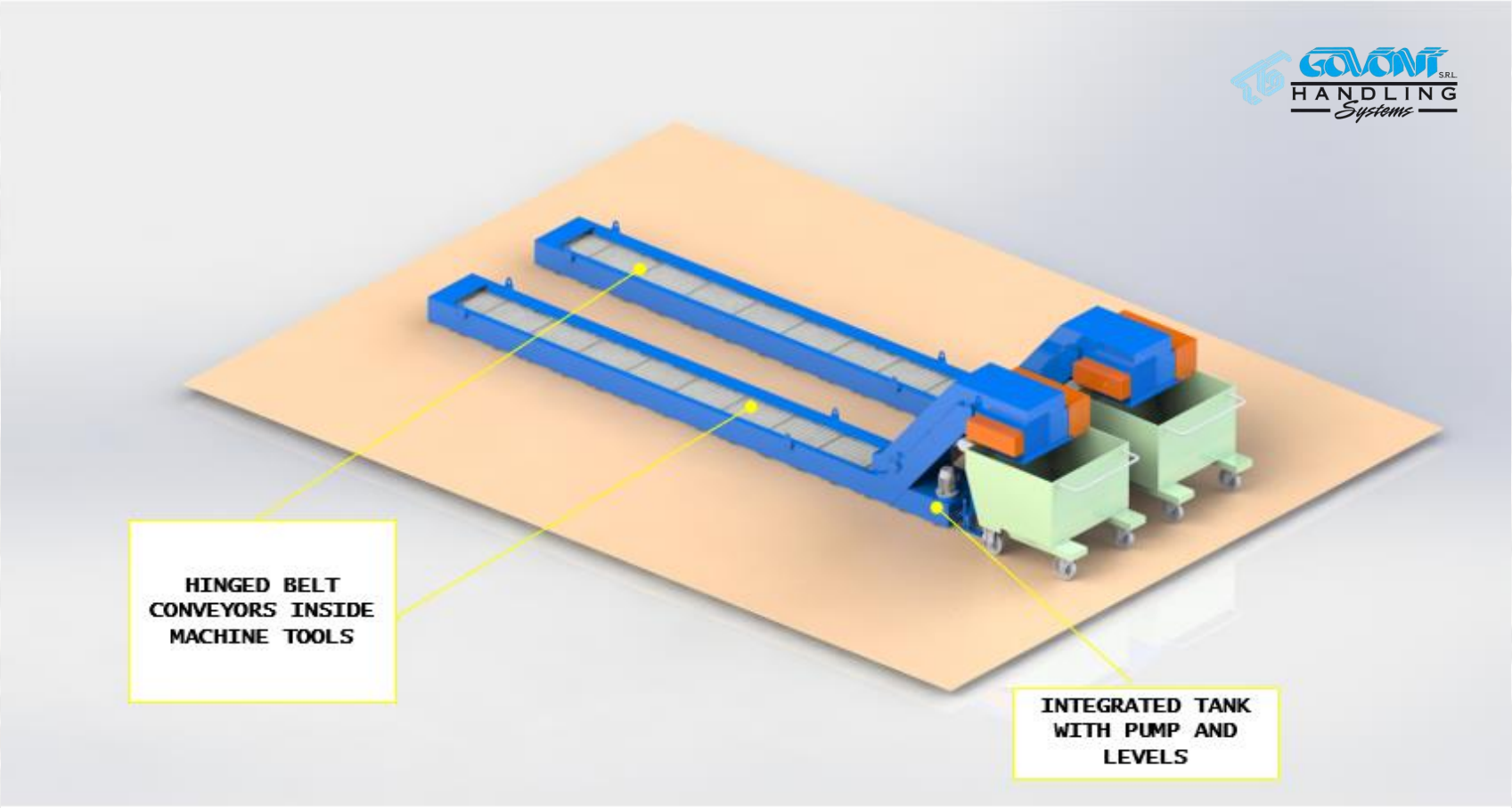
TECHNICAL DESCRIPTION AND OPERATION

Hinged belt evacuators consist of steel plates joined to each other by means of connecting pins inserted in aligned curls and fixed to chain for drive. So, material **can't either fall or get wedged** thanks to absence of space between plates, **ensuring strength and efficiency even under the most severe operating conditions** and **with high load capacities.**

This type of evacuator is characterized by a double curve which allows the chips to be lifted from a flat section to discharge into a bin using just **one motor.**

Inside frame, under conveyor inclined section, it is possible to install an **integrated tank with pump and levels** to recover coolant discharged from chip by gravity.

Hinged belt evacuators are composed of a frame, inside which there's a sliding belt with steel plates connected to a double chain with a **31-38-50-63-75-100-125-mm pitch**, depending on the capacity or the type of material to be transported.



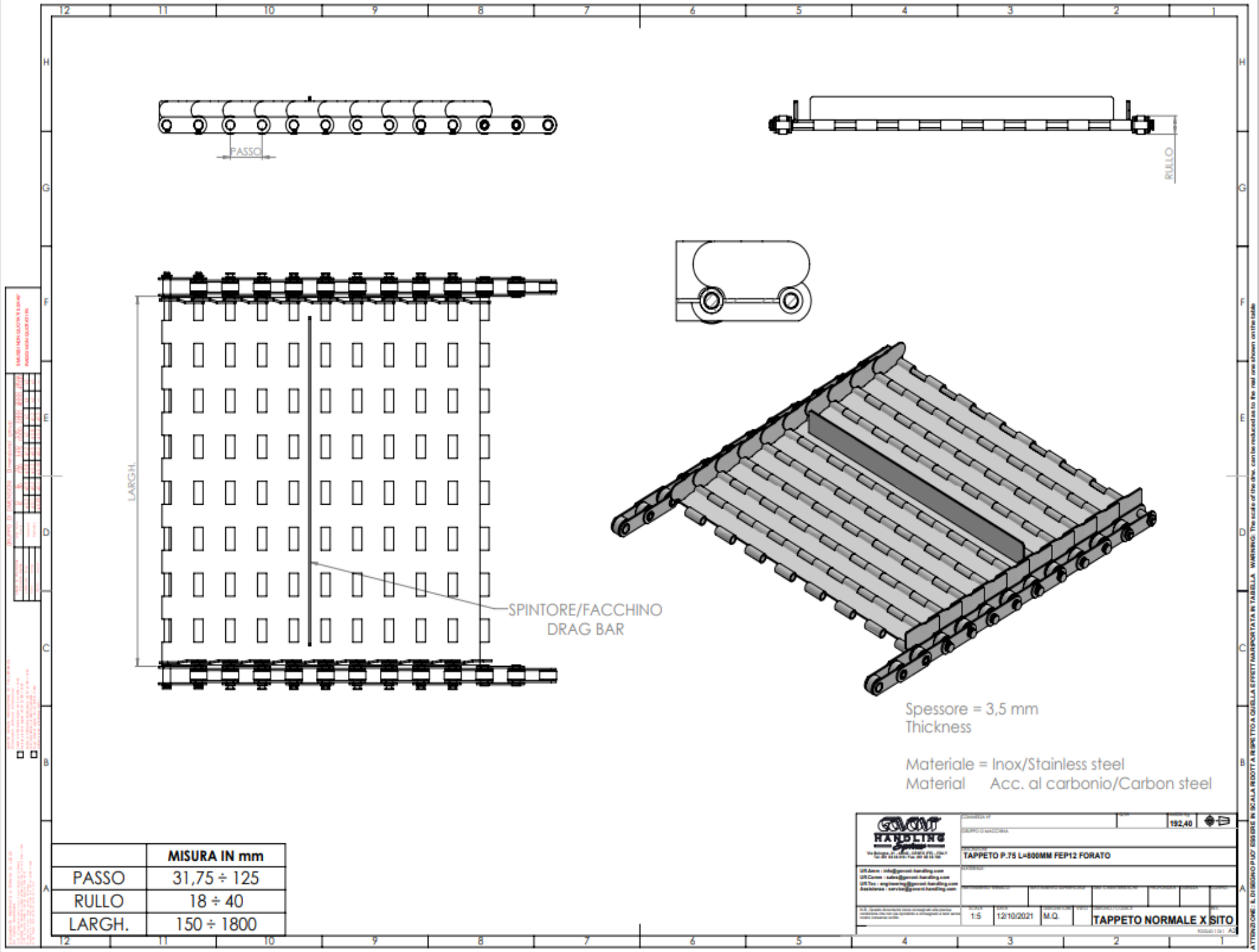
Frame is made of **electro-welded sheet metal** and it is also equipped with **eyebolts** screwed at appropriate distances to facilitate evacuator lifting and handling. **Connecting pins** are housed to allow free rotation of all plates on curved sections; **side tabs welded** onto the plates protect chain and sliding rollers from material leaks, that would accelerate their wear.

Each evacuation kit is designed to meet the needs of a machine tool and carefully analyze the base and space available for its evacuator. A number of **sliding wheels** are also supplied for an easy extraction of the evacuator.

All elements of the system can be easily inspected for checks and maintenance are equipped with **safety guards** in compliance with current legislation, so that no moving or dangerous parts of evacuator come into contact with operators. A **motor protection switch** is also included to protect the gearmotor from any overloads.

HINGED BELT EVACUATORS - BENEFITS

- SUITABLE FOR TRANSPORTING CHIPS, SWARF AND SOLID PIECES
- INEXPENSIVE AND TRADITIONAL TECHNOLOGY WELL-ESTABLISHED OVER THE YEARS
- MAXIMUM RELIABILITY EVEN IN CONTINUOUS AND UNATTENDED PROCESSES
- INCREASABLE CAPACITY
- NO MATERIAL LEAK BETWEEN PLATES
- FLEXIBLE IN WIDTH AND LENGTH
- STABLE EVEN ON LONG SECTIONS
- FEASIBLE IN LINE, WITH SINGLE AND DOUBLE CURVE
- WIDE VARIETY OF BELTS WITH DIFFERENT CHAIN PITCHES
- EASILY CONNECTABLE TO A CENTRALIZED SYSTEM
- PROTECTED, SAFE AND INSPECTABLE
- WITH PERFECTLY INTEGRATED COOLANT COLLECTION TANK
- WIDE RANGE OF ACCESSORIES AVAILABLE



	MISURA IN mm
PASSO	31,75 ÷ 125
RULLO	18 ÷ 40
LARGH.	150 ÷ 1800

TAPPETO P.75 L=800MM FEP12 FORATO

TAPPETO NORMALE X SITO

Hinged belt evacuators can have a **loading hopper** of various sizes for charging and storing material to be transported, moreover its frame can be equipped with a **top cover**. On evacuators with curves, a certain number of **flights** are usually welded at appropriate distances to let material to be lifted even on inclined sections, thus avoiding damaging backward falls. If chip volume is too high, a **shredder** can be installed above evacuator.

These systems can also be equipped with the following **optionals: base infill sides**, **side walls** bolted to the frame and properly shaped to prevent material from leaking out of conveyor, a **brush** for discharge to remove material residue from belt, **anti-sway side guides** to stabilize belt during its drive especially for long sections and one or more **liquid-tight joints** to divide system and easily disassemble it.

If coolant is present, perforated plates are supplied and inside frame under the inclined section, evacuator is equipped with an **integrated tank with pump and levels** to which apply one of the various filtration systems such as **magnetic filter**, **gravity band filter, self-cleaning drum filter** or one of the most advanced **superfiltration systems up to 3 µ**.

Another available optional accessory is **spray lubrication system** which reduces friction on drive chains safeguarding their life even without coolant.

Finally, upon request, it is possible to supply an interfaceable **junction box** or a **logo electrical panel** that can manage start-stop-reverse commands, motor protection switch and emergency button for power supply interruption.

SERIES	MODELS				
HINGED BELT EVACUATOR	**TI31***	**TI38***	**TI50**	**TI63**	**TI75**
CHAIN PITCH (mm)	31.75	38.10	50	63.50	75
ROLLER (mm)	18	22	31	40	40
MIN BELT CLEAR WIDTH (mm)	150	150	150	300	300
MAX BELT CLEAR WIDTH (mm)	400	400	700	1000	1200
ELECTRO-WELDED SHEET METAL FRAME	√	√	√	√	√
HINGED STEEL PLATES	√	√	√	√	√
LIFTING EYEBOLTS	√	√	√	√	√
WELDED SIDE TABS	√	√	√	√	-
BENT SIDE TABS	-	-	-	-	√
CENTERED CURLS	√	√	√	√	√
HIDDEN CURLS	-	-	√	√	√
SLIDING WHEELS	√	√	√	√	√
MOTOR PROTECTION SWITCH	√	√	√	√	√
SAFETY GUARDS	√	√	√	√	√
LOADING HOPPER	optional	optional	optional	optional	optional
UPPER COVER	optional	optional	optional	optional	optional
FLIGHTS	optional	optional	optional	optional	optional
SHREDDER	optional	optional	optional	optional	optional
BASE INFILL SIDES	optional	optional	optional	optional	optional
SIDE WALLS	optional	optional	optional	optional	optional
BRUSH	optional	optional	optional	optional	optional
ANTI-SWAY SIDE GUARDS	-	-	-	-	optional
LIQUID-TIGHT JOINT	optional	optional	optional	optional	optional
PERFORATED PLATES	optional	optional	optional	optional	optional
INTEGRATED TANK WITH PUMP AND LEVELS	optional	optional	optional	optional	optional
MAGNETIC FILTER	optional	optional	optional	optional	optional
GRAVITY BAND FILTER	optional	optional	optional	optional	optional
SELF-CLEANING DRUM FILTER	optional	optional	optional	optional	optional
SUPERFILTRATION SYSTEM UP TO 3 µ	optional	optional	optional	optional	optional
SPRAY LUBRICATION SYSTEM	-	-	-	-	optional
ELECTRICAL JUNCTION BOX AND WIRING	optional	optional	optional	optional	optional
LOGO ELECTRICAL PANEL AND WIRING	optional	optional	optional	optional	optional

* These models may be proposed as alternatives depending on the internal availability of components.

Products

- Centralized screw systems for metal chips transport
- Centralized pneumatic vacuum systems for metal chips transport
- Chips treatment and oil recovery kits
- Apron belt conveyors
- Hinged belt conveyors
- Machine tools evacuators
  - **Hinged belt evacuators**
  - Screw evacuators
  - DUO evacuators
- Coolant filtration
  - Magnetic filters
  - Gravity band filters
  - Self-cleaning drum filters
  - Centralized filtration systems
- Shredders
  - Single-shaft shredders
  - Double-shaft shredders
  - Vertical shredders
- Centrifuges
- Cart lift dumpers
- Chip storage silos

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