Hinged Plate Conveyors
Hinged Belt Conveyors

"A Variety of Advanced Conveying Technologies"
We provide our customers with:
Hinged steel belt conveyors and hinged plate conveyors for handling stampings, pressed and forged parts, for removing chips during machining operations, for die-cast components (zinc and aluminum), for transporting rounds (coins and extruded parts), for pellets, screws, rivets, and other fasteners, as well as for scrap, waste, other mass parts, and for granular bulk material.

**Hinged Steel Belt Conveyors**
with pressed and cold formed hinged steel elements
(pitch: \(1/2", 3/4", 1 1/2", 2", 2 1/4", 4", 5", and 6", 12.7, 19.05, 38.1, 50.8, 63, 100, 125, and 152.4\ mm)

**Hinged Plate Conveyors**
with heavy-duty welded hinged elements.
(pitch: 2", 2 1/4", 4", 5", 6", and 8",
50.8, 63, 100, 125, 160, and 200 mm)

**Hinged Belt Conveyors**
They have pressed hinged elements made of highly resistant cold rolled steel, their surface is smooth, i.e. the crimped hinges and the apron plates have a flat top.
The hinged elements are non-divided elements on the total effective width (even for the largest widths, maximum 138" [3500 mm]). All belt types might be pimpled, if required, for preventing conveying materials to stick. The crimped hinges are made in a way that the smallest possible moving gaps are obtained (less than 0.01" [0.3 mm]). Therefore our hinged belts are particularly well suited for transporting thin sheet metal parts (e.g. dynamo sheet scrap).
For washing, degreasing, and quenching systems we even provide perforated hinged belts made of stainless steel.

The driving chains on the sides with hardened rollers make it even possible to have an inclined conveying line through different levels in the frame. Also moving side wings limit the conveying cross-section and flights allow steep conveying up to 85°. All driving and tension units hardly need any maintenance. Slip clutches or current measuring relays protect the power conduct of the gear motor.

**Our Special Development:**
Milled steel cover rails of the loading field encompass the lateral chains and side wings as a labyrinth and seal them against the frame. That way the material to be conveyed will be highly protected against jamming and locking between the rotating belt and the rigid frame construction (ideal conditions for stamping scrap and steel chips).

**Hinged Plate Conveyors**
(welded hinged elements)
Completely welded hinges are used for these conveyors that are extremely well suited for transporting heavy, red-hot material (forgings and castings). Furthermore they are used in shredder and waste disposal facilities for heavy loading and impact stress.
The hinged plates, 0.3" [8 mm] thick, are made of structural T-steel and have therefore a special reinforced transversal structure on the bottom side. They are welded with the gudgeons made of seamless drawn steel tube realizing a smooth surface (no possibility of "dirt clusters").
We have all components of our hinged belt conveyors and hinged plate conveyors in stock. Standard hinged cross sections and driving elements allow short delivery times, even for different conveying lines.

**Application:**
In view of dimensions, conveying line, and feeding as well as discharge, hinged belt or plate conveyors are based on the local conditions of our customers. The conditions on the site are decisive, and therefore each conveyor will be the optimal solution for our customer. We plan, design, manufacture and deliver our conveyors according to their operation conditions. This is our supplying standard. We don’t provide special design for additional charges, but we supply "made-to-measure" according to our customer’s demand, at normal prices.
For discharging machines above floor level we offer to our customers some types of conveyors in special line configurations with very short delivery times.

We developed our Light Duty Steep Conveyors (DB) for light mass parts, and our Heavy Duty Steep Conveyors (SB) for heavy mass parts (see our special brochure).

Our light duty hinged belt conveyors (world-wide known as DB-types) use hinged steel belts \( t = \frac{3}{4}" \) \([19.05 \text{ mm}]\), which are guided over wear-resisting plastic rails. They have outstanding features: they are noiseless, highly resistant to wear and maintenance-free.

Our heavy duty steep conveyors (SB) \( t = 1\frac{1}{8}" \), \( 2" \), \( 2\frac{1}{8}" \) \([38.1, 50.8, 63 \text{ mm}]\) pitch) are robust, of low construction and hermetically sealed. They may also be used for transporting the most pointed and most difficult materials and can be delivered with smallest infeed heights for limited space.

Effective widths

- **Light Duty Steep Conveyor (DB I)**
- **Light Duty Steep Conveyor (DB II)**
- **Light Duty Steep Conveyor (DB III)**
- **Light Duty Steep Conveyor (DB IV)**
- **Heavy Duty Steep Conveyor (SB N3)**
- **Heavy Duty Steep Conveyor (SB N4)**

Effective widths

- 4", 6", 8", 10", 12"
- 100, 150, 200, 250, 300 mm

- 150, 200, 250, 300, 350, 400, 500, 600, 800 mm
Specifications of our Hinged Belt Elements

The pressed hinged elements made of highly resistant cold rolled steel are always undivided over the total effective width (undivided hinge widths from 2" [50 mm] up to 138" [3500 mm] maximum), resulting in the elimination of lateral gaps, a high section modulus against deflection, simplified change of spare parts and in minimizing wear, noise and the drive power required. The crimped hinges are flat in the conveying surface so that deeper lying gores are avoided and therefore “dirt clusters” and jamming of chips, stamping scrap, die-cast fines, as well as other residues through the influence of oil and grease may be avoided. The hinged belt elements (plate elements) are available with a gap for moving of only 0.01" [0.3 mm].

Hinged belt pitches: \( t = \frac{3}{4}" [19.05 \text{ mm}] \), \( \frac{1}{2}" [12.7 \text{ mm}] \), \( \frac{3}{4}" [19.05 \text{ mm}] \), \( 1" [25.4 \text{ mm}] \), \( \frac{11}{2}" [38.1 \text{ mm}] \), \( 2" [50.8 \text{ mm}] \), \( 2\frac{1}{2}" [63 \text{ mm}] \), \( 5" [125 \text{ mm}] \), \( 6" [152.4 \text{ mm}] \)
Specification of Chains and Side Wings

Our hinged steel belts are driven and guided by hollow pin chains at their side wings. The whole hinged belt is rolling over hardened rollers in the chains. The cross pins of the belt are passing in the hollow pins of the chain. It is possible to change single cross pins and hinged elements without dismounting the chain. The link plates transmit the chain tension to the cross pins via the sockets respectively the hollow pins. A power transmission to the cross pins through pressure on the face of the chain link holes does not take place! (the most important feature!)

Scaled, smooth or crimped side wings increase the conveying cross section (effective heights: 0.6" [15 mm], 1.2" [30 mm], 1.6" [40 mm], 2" [50 mm], 2.4" [60 mm], 3.2" [80 mm], and 4" [100 mm]).

$\frac{3}{4}"$ [19.05 mm] pitch

$1\frac{1}{2}"$ [38.1 mm] pitch

2" [50.8 mm] pitch

2$\frac{1}{2}$" [63 mm] pitch

5" [125 mm] pitch

6" [152.4 mm] pitch
Hinged Belt Conveyors on the Job

Hinged belt conveyors are used all over in the metal-working industry, for pointed, cutting, hooked material to convey during influences of temperature, chemical aggressiveness, wetting by water, oil or coolant, as well as for high lumped loads and effects of impacts and scratches.

Our hinged belt conveyors are available in straight line or in any inclined line. The side guiding chains allow an undivided, continuous line through different levels, and ensure a safe hinged belt guidance, also for the transition curves when lines are inclined. Reduced frame heights are even possible for chip conveyors (low overall heights in the feeding area).
Vibratory grinding bowls with "Lastikus" steep feeder and a tumbling loader from Goessling

Tempering furnace with discharger (screw quenching)

Inclined Hinged Belts

- t = $\frac{3}{4}$" [19.05 mm] pitch
- t = 1 $\frac{1}{2}$" [38.1 mm] pitch
- t = 2" [50.8 mm] pitch
- t = 2 $\frac{1}{2}$" [63 mm] pitch
- t = 5" [125 mm] pitch
Welded hinged plate conveyors for heavy-duty loads and wearing effects, used in forging facilities as well

Hinged Belt Conveyors on the Job

40 Double submerge conveyor in an oil quenching bath (hardening shop)

41 Used in a water quenching bath (forging area)

42 Feeding of a hardening furnace

43 Used under an automatic Hatebur forging machine

44 Die-casting machine with steep conveyor

45 Used within aluminum die-casting

46 Under-floor discharging of stamping press

47 Stamping press with light duty steep conveyors for discharging

48 "Lastikus" steep conveyor

49 Hardening furnace feeder

50 Discharging trimming scrap
Our hinged belt conveyors come into operation in many different ways for discharging scrap. We provide modern large-sized collecting installations for discharging scrap under-floor, and we are specialists for automatic feeding of containers (large units), including systems for changing containers. We are worldwide suppliers!

51 Automatic feeding of a semi truck trailer (USA) (car body scrap) with two movable platforms for heavy-duty loads, platform height only 4" [100 mm] with 24 tons load

52 Scrap chute for lifting and swiveling

53 Railway wagon feeding with hopper belt (intermediate storage)

54 Alternate feeding of large containers

55 Discharging scrap to a large extent with a distribution system for 6-8 containers (car body scrap)

56 Discharging chips in a profiling unit

57 Double container feeding with swiveling hinged belt conveyor

58 Double container feeding with swiveling chute

59 Discharging stamping scrap

60 Feeding 6 large containers with stamping scrap

61 Transfer of large containers and scrap feeding
Hinged Belt Conveyors (stamped)
Examples of the variety we provide

Steep belt conveyor with twin shaft crusher for duroplastic chips
Hinged Plate Conveyors (welded)
Examples of the variety we provide

Sample to the drawing shown beside

In order to assist our customers during planning their project, we ask you to use the drawing shown beside and communicate the blank measures to us. Thanks a lot.
Two-Lane Hinged Belt Conveyors / Hinged Plate Conveyors

It is necessary to collect finished parts and scrap separately at heavy-duty machines (especially in the forging and screw manufacturing section, in stamping and transformation lines) and to discharge them rapidly. For doing this we provide two- (or multi-) lane conveyors with one or two side wings in the belt middle, the latter for allowing to connect feeding and discharging chutes with tiled, secure transitions (between the rotating side wings on the edges and in the middle and the sliding surface). The elimination of any kind of jamming, due to this new technology, pays off many times the additional expenses of this design. Less working trouble thanks to this innovating technology! Forget all jamming when discharging on chutes and use our conveyors!
Combined Conveyors (combi-conveyors)

If you need to discharge rapidly at the same time finished parts and very fine oily swarf fines, small stampings and steel chips in heavy-duty machines, we recommend to use our combi-conveyors, which have one hinged belt conveyor and one magnetic sliding conveyor in one unit. Both conveyors (in one unit) have the same height and the same shape. They are driven by the same gear motor. This is the way to discharge all problematic scrap, as very fine chips, hexagon bur parts, small sludge parts, stampings, etc. without any residue, and the surroundings of your machine remain clean. Rely on our definite discharging system, you too!

Belts with Large Pimples

We have developed hinged belts with large pimples for avoiding adhesion of light flat stampings under oil and coolant influence. They turned out to be very successful for the manufacturing of coins and blanks. The large pimples cover nearly the whole surface of the hinged belt and therefore interrupt very effectively the continuous films of coolant or cutting means with their negative effects. From now on we also provide inside pimpled side wings for diminishing even there the adhesive effects of emulsion and oil films.

"PS" Side Wings

For reducing the gaps to nearly zero at the rotating side wings we provide precision side wings (PS side wings) in a special tight version (see pictures shown beside). This allows reducing the remaining motion gaps to less than 0.004" (1/10 mm) down to zero. In connection with the milled side cover rails in the feeding section (or continuously until the discharging section) that have been developed and utilized by Goessling, these features allow a highly sealed conveying cross section. This design has been completely unknown in the conveying technology in the past. Goessling hinged belt conveyors have set milestones within belt sealing and working without jamming. It is much better to pay more for sealing and safety than to complain always on jamming. Business interruptions cost money!

We provide precise machined lateral block rails and our rotating "PS" side wings for all hinged belt conveyors (i.e. for all pitches).
Perforated Hinged Elements

We provide perforated hinged elements for improving the drainage of coolant and cutting oil or for quenching baths, washing and degreasing machines. The perforation size depends on the measures of the smallest part to be conveyed or according to the purpose of utilization.

Perforated hinged elements in stainless steel can be delivered for the belt pitches $t = \frac{1}{2}''$ [12.7 mm], $\frac{3}{4}''$ [19.05 mm], $1\frac{1}{2}''$ [38.1 mm], $2''$ [50.8 mm], $2\frac{1}{2}''$ [63 mm], $5''$ [125 mm].

We supply complete hinged belts in stainless steel (consisting of cross bars, side wings and chains) for the belt pitches $t = \frac{1}{2}''$ [12.7 mm], $\frac{3}{4}''$ [19.05 mm], $1\frac{1}{2}''$ [38.1 mm], $2''$ [50.8 mm], $2\frac{1}{2}''$ [63 mm], $5''$ [125 mm].

Cleaning Brushes

Even in providing all hinged belt elements in the pimpled version (small belt elements have pimples on the middle of the crimped hinge – see picture page 4) it may be necessary to brush the surface of the hinged belt continuously during the operation of the conveyor. We supply rotating brushes, i.e. driven, very effective round brushes placed behind the discharge head of the conveyor in the bottom cover. They are either driven by their own small chain via the main shaft of the conveyor or by a particular gear motor.

Their bristles are made of non-abrasive nylon 6.6, Perlon or spring steel (also spring hard stainless steel).

Submersible Conveyors

For using our conveyors directly in water, quenching or cleaning baths or in wetting, impregnating or heating baths we provide hinged belt conveyors even as complete submerged conveyors. In these cases the driving and tension stations are a connecting unit at the discharging head. The belt turns in the quenching bath thanks to an adapted plain bearing technology.

We dispose of a special know-how in this section. Ask for our special catalogue.
Hinged Plastic Belt Conveyors

For very sensitive or very light conveying material it seems useful to choose a conveying belt made of plastic. For keeping the technical conveying advantages of the hinged belt conveyor types, as described above, we supply hinged plastic belts of multiple pitches for the same conveying systems. These plastics are extremely resistant to cutting and do not cause any marks on highly sensitive steel parts. Our hinged plastic belts can also be equipped with rotating side wings, lateral chains and flights (cleats). For light unit loads we provide those conveyors in aluminum, made in a very low and cramped construction (light weight), e.g. for the plastic processing industry. Any Z-line form is possible.

Any plastic hinge may be provided with a perforated surface (open surfaces 5 to 50% with holes in form of slots, squares or rounds).

Available pitches of hinged belts:
- $t = \frac{3}{4}''$ [19.05 mm], 1" [25.4 mm], 1 1/2" [38.1 mm], -2" [50 mm], 2" [50.8 mm], 3" [76.2 mm]

Type of plastic:
- Polypropylene, polyethylene, polyacetal, polyamide (nylon)

Operable temperature range:
- -4 °F to 212 °F [-20 °C to 100 °C]
Flat Top Chain Conveyors

Flat top chains are used, if the hinged elements should be the highest point of the construction within the conveyor, if material shall be piled up on the hinged elements, if something shall be taken away, shoved away or discharged from the side of the belt surface, and if the hinged elements must run extremely fast for carrying or conveying material.

The hinged elements and the chain links are the same units. They are driven by direct gearing of special sprockets via the crimped hinges in the middle of the chain element. These flat top chains are available in annealed or stainless steel, and or in plastic (polyacetals). Due to special crimped hinges they can run even in curves, which is called curve-running flat top chains (see picture).

Compared to the hinged belts of the before mentioned units, the gap width of the flat top chains is larger. Therefore these chains are only used for conveying larger material (unit loads); in general bottles are transported on those flat top chains.

Flat top chains can be driven with high conveying speed (up to about 3.28 ft/s [1 m/s]).

Available effective widths:
- app. 3 1/4" [80 mm], 3 1/2" [90 mm], 4" [100 mm], 4 1/2" [115 mm], 6" [150 mm] or 7 1/2" [190 mm] per line.

For wider effective widths several flat top chains will be arranged parallel side-by-side. Piling tables have a special configuration of this structure; the single chains sometimes run with different speeds or even in counter-rotation, so that all-round rotating is possible (e.g. for piling purposes - storage).
Hopper Feeder

Lastikus

Our steep hopper feeders type Lastikus take on the steep feeding of bulk mass parts and discharge them in portions (metering) at a very steep conveying angle. The steep feeder and the hopper form a complete unit within these machines. The loaded mass parts to be conveyed are gently rolled over until they have found the best position in the drag flight of the steep belt feeder for being transported. Jamming in between the conveying mass parts and impact with the feeder will be avoided.

The special curved guiding of the hinged belt in the bottom of the hopper, developed by Goessling, guarantees a gentle, best possible steep feeding for a high quantity of mass parts (avoid circle chord to shorten). Lastikus-hopper feeders can be very well used together with sorter and metering devices for the automation of heavy-duty machines. We are specialized in these interlinking and automation installations.

Automatic Feeding of:
Automation machines
Assembling lines
Packaging lines
Processing centers
Cold forming machines
Special stamping presses
Slotting machines
Thread rollers
Welding machines
Cutting and bending machines
Testing machines
Inspection units
Heat-treat furnaces etc.

Specifications of our Lastikus Feeder

| Effective width | 8", 10", 12", 16", 20", 24" or 32" |
| Discharge heights: | from app. 43° to 197° (1100 to 5000 mm) |
| Inclination: | either 60°, 70° or 80° |
| Speed: | 61/2, 10, 12, 14, 20 ft/min (2, 3, 3.65, 4.25 or 6 m/min) or infinitively variable 3.3 - 20 or 4.25 - 26 ft/min (1 - 6 or 1.3 - 8 m/min) |
| Hopper volume: | 5.3 - 12.36 cft. (150 - 350 l) |
| Power supply: | 460 V or 575 V, 60 Hz, 3-ph. or 230 V / 400 V, 50 Hz, 3-ph. |

Lastikus Disentangler

To disentangle loaded spiked and interlocked mass parts we have developed a Lastikus specialty, the so-called Lastikus Disentangler (patented).

These disentanglers are able to unravel spiked mass parts (e.g. long bolts, screws, hooks, springs and certain stampings etc.) and to meter them in small quantities and continuously feed them to next machines. Any discharge height may be realized. For further information please refer to our special brochure.
**Hinged Steel Plate Conveyors**

Our hinged plate conveyors have completely welded hinged elements. Each element is made of a structural T-steel. The gudgeons made of seamless drawn steel tube are welded, realizing a smooth surface. The 0.3" [8 mm] thick hinged plates are able to withstand even the roughest working conditions. The hinged steel plates are driven and guided by hollow pin chains on the sides; it is the same as for the hinged steel belts. Rotating side wings increase the conveying cross section. The transfer of the chains in the frame takes place in general on rails of straight, wear resistant manganese steel, made especially for this purpose.

Available hinge pitches:
- \( t = 2" [50.8 \text{ mm}], 2\frac{1}{2}" [63 \text{ mm}], 4" [100 \text{ mm}], 5" [125 \text{ mm}], 6" [152.4 \text{ mm}], \text{ and } 6.3" [160 \text{ mm}] \)

**Hinged Plate Conveyors** are highly qualified for transporting and conveying heavy cast iron parts, hot forgings or shredder scrap with various dimensions. Installations of this kind are often used for discharging machines at automatic multistage headers, forging presses, in the whole section of quenching and annealing processes. Hopper hinged plate conveyors are used for storage of heavy bulk material needed e.g. for feeding induction furnaces.

Hinged steel plate conveyors constitute also the conveying elements in heat treatment installations, e.g. for the BY transformation (the controlled cooling from forging heat) as well as for the isothermal temperature controlling during the manufacturing process of finished forgings.

Furthermore hinged steel plate conveyors are utilized in vehicle shredders, and in big scrap disposals (bulk or pressed) in under-floor streets of the automotive industry. Then we have developed hinged plate conveyors, which are used for discharging and transporting red-hot mass parts automatically forged (gear and shaft slugs, steel nuts and other dynamically balanced forging slugs). We successfully increased the endurance of these conveyors, which are exposed to such extreme wear conditions (heat, water, iron scale), several times by developing new guiding elements made of highly wear-resistant materials as they are used under the extremely wearing conditions in the mining and non-metallic minerals industries. Ask for our special information.
Under-floor Scrap Handling with Goessling Hinged Belt Conveyors

Nowadays a smooth central under-floor scrap handling is an important precondition for an automatic stamping production. No stamping machine should have a downtime because the discharge of scrap does not work. We are one of the worldwide leading suppliers of hinged belt conveyors. With our efforts to reduce the gaps, as well as to eliminate jamming and ensure safe running procedures, we consider us being one of the most consistent manufacturers of high-tech scrap discharging equipment. For years we have been devoting ourselves to solving the problems with scrap jamming, and we have achieved convincing improvements within this field.

In this line of work we see ourselves as number 1 in the world.

Our efforts are characterized by flat crimped hinges with very tight moving gaps and a nearly complete sealing of the rotating side wings against the hinged elements on one side and also against the fixed frame. We have introduced the milled steel cover rails as sealing elements, and we are using a “screwed skeleton” construction to achieve an extremely tight tolerance, therefore giving no chance for small scrap to get jammed. With widths of hinged gaps of less than 0.001” [0.3 mm] the thinnest dynamo sheet parts, aluminum fines and films can be discharged safely. Our steel cover rails seal the rotating side wings and chains hermetically (kind of labyrinth).

Our under-floor scrap handling installations have removable casings on the sides, where the space between top- and bottom cover remain accessible. Maintenance and inspection are herewith facilitated.

Coolant and oil pans, where provided, are positioned under the frame at hand-width (everywhere accessible from the sides), and all intermediate flanges and support legs are made in such a manner that dropping oil will only come into the pan and not on the floor. The chain guides are constructed of manganese steel, so guide wear is almost eliminated.

Goessling conveyors incorporate many high quality features. Please contact us early, already when you are planning, so that you can consider the scrap disposal when fixing the foundation of the machinery. It is never too early to plan the ways of discharging scrap, but it might be too late.
### Our entire product range:

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Our hinged steel belts within our chip conveyors have proven to be a worldwide success, thanks to their smooth surface. They are used in modern tooling machines and CNC-centers, in processing centers and in central under-floor chip collecting channels.

We provide complete chip processing lines with chip crushers and centrifuges, and we specialize in feeding huge containers.

For more detailed information please contact us.

Detailed catalogues available.