Dr.-Ing. Gössling GmbH
PROCESS ENGINEERING AND CONVEYOR SYSTEMS

One supplier for all your needs
Our product range

1. We supply conveying and interlinking equipment for piece goods and bulk material, both light and heavyweight. Standardised and custom-made units are available to our clients.

2. We have specialised in producing conveyors for applications such as handling, steep incline conveying, and allocation of small mass parts (e.g. screws, bolts, circular blanks, nails and punchings).

3. We discharge chips of all kinds (oily, wet or powder-dry) in modern cutting machines and machining centres.

4. We supply solutions for position-oriented feeding and charging of all types of processing and assembling machines; we also supply circulating conveyors for workpiece carriers, automatically feed vibratory bowl feeders and link up production lines, we buffer, store, sort, and allot batch as well as mass production parts.

5. We convey parts through quenching and hardening baths, as well as through immersion, emulsion and conservation baths; we also charge heating installations, allot mass parts to continuous annealing furnaces in layers of specified thickness, and handle red-hot forging parts before and after they are worked by forging presses and hammers.

6. We transport sand-cast and chill-cast parts, discharge die-casting machines (zinc, aluminium). We also deal with the transport of foundry sand, the dosing of additives, the discharge of blasting plants (e.g. in steel deburring etc.), and the interlinking of workplaces for cleaning and finishing castings.
7. We feed and discharge machines for vibratory finishing and dry tumbling; for these applications we also supply magnetic discharge conveyors with demagnetising coils, as well as drying and preservation units.

8. We transport red-hot steel parts as well as abrasive bulk material. We convey heavy parts, billets, and bulk units (up to 10 m length and 1000 kg weight).

9. We transport small parts, parcels, boxes and all other types of packages – all of this is achieved silently and smoothly with our range of outstanding lightweight conveyors (flat belt conveyors and roller conveyors).

10. We accept and pass on pallets and similar large-sized parts (plates, parts of furniture) at cross-transfer stations.

11. We lift, turn, rotate and tilt conveyed goods, even under difficult circumstances.

12. We employ magnetic powers in our range of magnetic slide conveyors and elevators, in the area of transporting chips and sheet metal parts, as well as in stacking and destacking units.

13. We lift, tilt and discharge bins and containers with a filling weight of up to 3 tons – without any limitation as to the discharge height.

14. We centrifuge, de-oil, wash and clean mass parts of all kinds.
For the machining process, we supply:
chip conveyors of all varieties, ready for installation,
with coolant recirculation pumps and fluid level monitoring;
suitable for CNC centres and lathes, as well as milling,
deep drilling, grinding, gear-cutting and automatic bar
machines and others.

Our product range includes:

Hinged belt chip conveyors
Scraper-type chip conveyors
(Multi-spindle automatics)
Compact conveyors
(Automatic bar machines)
Screw-type chip conveyors
Magnetic sliding type chip conveyors
(Grinding and gear-cutting machines)
Drag conveyors for chips

Magnetic slide conveyors for chips
We supply equipment:
for discharging chips from automatic bar machines:
Compact conveyors
Hinged belt- or drag-type, also suitable for installation in cramped spaces.

for crushing chips: ruggedly designed
Chip crushers

and for coolant recycling: highly effective
Chip de-oiling centrifuges

We are well-known for our range of
Under-floor chip collecting conveyors
and equipment for fully automatic feeding of large containers with de-oiled and batched chips.

Sifter screens
for extracting mass parts or chips, respectively, complete our product range for the machining industry.
We supply:

**Wire mesh belt conveyors**

We supply a wide, application-oriented range of wire mesh belt conveyors for transporting red-hot and/or heated goods in the forging and heat-treatment industries. Our wire mesh belt conveyors (available with 10 different classes of wire mesh) are also used in a variety of other facilities dealing with applications such as cooling, wetting, soaking, immersing, quenching and drying.

We supply complete terminals for continuous wire mesh belt furnaces as well as complete immersion installations suitable for mass parts weighing between 20 g and 120 kg a piece (i.e. ranging from small parts for sewing-machines to front axles for trucks).

Chain-guided wire mesh belt conveyors

Non-guided wire mesh belt conveyors
We supply:

**Hinged steel belt conveyors**

for transporting stampings and punchings, stamping waste and scrap, as well as die-cast parts (zinc and aluminium); for conveying circular blanks, screws, rivets, nuts and other cold-formed parts, and for domestic and industrial waste disposal and other applications.

Our **hinged belt conveyors** are equipped with cold-stamped, hinged segments made of cold-rolled high-strength sheet steel. They have a level surface, i.e. the hinges are flush with the carrying surface of the hinged segments forming a flat surface. The hinged segments are undivided over the total effective conveying width. At request, all hinged belt types are available with a pimpled surface; many types are also available with a perforated surface (round, square or slotted perforation). We also supply hinged belts in stainless steel qualities for washing, de-oiling and quenching installations.

Lateral guiding chains with hardened rollers allow angled conveyor configurations (L- or Z-shaped); these may also be used across multiple levels with the belt running on the chain rollers over the guide system inside the conveyor frame.

Side wings limit the conveying cross-section and flights allow incline conveying at angles of up to approx. 85°.
Special features:

Machined side rails on either side in the feeding section enclose and thus protect the lateral driving/guiding chains as well as the side wings. This effectively prevents any conveyed material from getting stuck and blocking the conveyor. All driving elements of the hinged belt conveyor are thus completely protected.

The use of PS side wings reduces motion gaps to tenths of a millimetre. This is another effective way of preventing material from getting stuck and jamming the drive mechanism.
We supply:
**Twin-lane hinged belt conveyors**
A twin-laned design of the hinged conveying belt makes it possible to convey different materials on the same belt conveyor. The side wings along the centre of the conveyor prevent unintended mixing of materials and guarantee a flawless separation of the discharge stream.

**Roller sorters**
- for position-oriented feeding of head bolts and blanks
- for sorting small mass parts
- for extracting rejects and faulty parts
- for checking the dimensions of small pressed parts
- for lining up and separating head bolt-type mass parts
We supply:

**Magnetic conveyors**

Magnetic slide conveyors
for transporting stamping waste, stamping scrap, steel chips, etc.

Ferromagnetic parts are moved forward across an anti-magnetic sliding surface as if by an invisible hand. A revolving system of permanent magnets concealed on the inside of the conveyor seizes the steel parts with its powerful magnetic fields and transports them to the discharge end of the conveyor. All moving parts are located on the inside of the machine body and are thus fully enclosed and protected from the material conveyed.

Magnetic belt conveyors
for finished sheet steel parts, cans, tins and crown caps, as well as for small mass parts such as pins, nails, and large-surface sheet metal parts; our magnetic belt conveyors can also be used for feeding sheet steel blanks and in combination with stackers, de-stackers and other applications.

Magnetic belt separators
for vibratory finishing applications; including demagnetising coils etc.

Magnetic separator screws
for extracting superfine ferritic particles.

Magnetic elevators
for batch metering as required in automatic feeding systems or when filling up the reservoirs of vibratory bowl feeders.
We supply:

**Flat belt conveyors**

with textile, rubber, plastic or toothed belts, useable as components of modern feeding systems or as interlinking elements.

Useable with assembly lines, inspection lines with metal detector coils, Magnatest® testing lines, or as (steep) incline conveyors, twin-lane conveyors, compact conveyors for areas such as tool installation or feeding / discharging of any kind.

Available options:

High-tensile textile fabric belts - anti-static, oil-resistant, swell-resistant and food-safe; belt surface smooth or structured, PVC- or PU-based; fray-proof polyester fabric belts also available; operating temperature range for flat belts is -10°C to +100°C.

### Assembly line

<table>
<thead>
<tr>
<th>Type</th>
<th>Load capacity</th>
<th>Effective widths</th>
<th>Conveying distances (AA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB</td>
<td>up to 40 kg/m; up to 50 kg/m for piece goods</td>
<td>200 250 300 350 400 450 500 600 700 (800) mm</td>
<td>2-12 m</td>
</tr>
<tr>
<td>SB</td>
<td>up to 60 kg/m; up to 100 kg/m for piece goods</td>
<td>300 400 500 600 800 1000 1200 mm</td>
<td>2-25 m</td>
</tr>
</tbody>
</table>

**Stainless steel conveyors**
We supply:

**Compact conveyors**

useable as components of modern conveying systems, suitable for discharging applications as well as for interlinking high-performance machines.

Equipped with synthetic fabric or fine wire mesh belts, they discharge finished goods from the inside of machines and tools. The low installation height of the receiving end means our line of compact conveyors can be installed very close to the manufacturing tools or the respective discharge edge.

Available options:

**Effective widths:** 40 80 120 150 250 300 400 mm

**Lengths:** 600 800 1000 1250 1500 1750 2000 2250 2500 3000 mm
We supply: **Compact conveyors** with hinged steel belts featuring an extremely flat design. The fine hinged steel belts of these conveyors are resistant to pointed and sharp goods. With an installation height of only 50 mm, these conveyors can be installed very close to the manufacturing tools and are thus able to serve even the narrowest discharge channels.

**Effective widths (NB):**
- 50
- 100
- 150
- 200
- 250
- 300 mm

**Installation height:**
- only 50 mm

**Plunge-in length (ET):**
- 400 to 2000 mm

**Speeds:**
- 6
- 9
- 12
- 16 or 24 m/min

**Power supply:**
- 230/400 V, 50 Hz

**Compact conveyors**, magnetic sliding type with an installation height of only 35 or 50 mm, respectively, these conveyors can also be installed very close to the manufacturing tools and are thus able to discharge punching waste and small finished goods (ferromagnetic).

**Effective widths (NB):**
- 50
- 75
- 100
- 125
- 150
- 175
- 200
- 300 mm

**Installation height:**
- only 35 or 50 mm

**Plunge-in length (ET):**
- 400 or 1200 mm

**Speeds:**
- 6
- 9
- 12
- 16 m/min

**Power supply:**
- 230/400 V, 50 Hz
We supply:
**Hopper loaders**

These straight incline conveyors are equipped with **cleated textile belts** and have a funnel-type hopper at their feeding end. This hopper serves as a reservoir for the mass parts to be conveyed. The cleats are made of PVC material and are firmly fused to the textile fabric belt. Our low-noise hopper loaders have been designed for elevating light bulk goods.

<table>
<thead>
<tr>
<th>Effective widths (NB):</th>
<th>100 150 200 300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centre distance:</td>
<td>1250 - 3000 mm</td>
</tr>
<tr>
<td>Discharge heights:</td>
<td>1000 1250 1500 1800</td>
</tr>
<tr>
<td></td>
<td>2000 mm and similar</td>
</tr>
<tr>
<td>Conveying speeds:</td>
<td>3, 5 or 8 m/min</td>
</tr>
<tr>
<td></td>
<td>(adjustable variants available)</td>
</tr>
<tr>
<td>Feeding hopper capacities:</td>
<td>10 20 30 50 80 120 l</td>
</tr>
<tr>
<td>Power supply:</td>
<td>230/400 V, 50 Hz</td>
</tr>
</tbody>
</table>

**Incline conveyors, with corrugated sidewall belts**

Corrugated sidewalls fused to the conveyor belt significantly increase the delivery volume and consequently the conveying performance. These conveyors use textile fabric belts with a PVC, a PU, or a rubber coating, fitted with corrugated sidewalls from the same or similar material. Transverse cleats allow incline conveying at angles of up to 60°. The installation of guiding rollers in the inflected part of the unit allows an angled conveyor design at both the feeding and the discharging end (angled conveyors, L- or Z-shaped).

| Effective widths (NB): | 200 - 1000 mm |
| Height of corrugated sidewall: | 40 - 120 mm |
| Cleat height: | 35 - 110 mm |
| Conveying distance: | up to approx. 20000 mm |
| Conveying speeds: | 6 9 12 or 16 m/min |
| Power supply: | 230/400 V, 50 Hz |
We supply:

**Storage hopper conveyors**
with textile fabric belts; useable as storage hoppers for the precisely metered feeding of bulk goods.

**Flat belt conveyors** with metal detector coils
e.g. for use in plastic waste recycling or food handling.

**Multi-lane toothed belt conveyors**
for conveying pallets and workpieces; also available with adjustable centre pitch.

**Accumulating conveyors (staggered arrangement)**
(Textile fabric belts) – useable as accelerating or sorting conveyors.

**Belt conveyors** with integral drum motor
for conveying finished parts; rugged frame support made of aluminium profiles.

**Wide belt conveyors**
for large-surface piece goods; perfectly straight belt conveyance, no allowance for lateral belt movement.

Available options (wide belt conveyors):

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt widths:</td>
<td>1000 - 2500 mm</td>
</tr>
<tr>
<td>Belt lengths:</td>
<td>1000-12000 mm</td>
</tr>
<tr>
<td>Speeds:</td>
<td>6, 12 or 16 m/min</td>
</tr>
<tr>
<td>Power supply:</td>
<td>230/400 V, 50 Hz</td>
</tr>
</tbody>
</table>
We supply:

**Roller conveyors, roller tracks**

- Light duty roller conveyors
- Gravity roller conveyors
- Powered roller conveyors
- Accumulating roller conveyors
- Curved roller conveyors
- Compact roller conveyors
- Roller tracks
- Heavy-duty roller conveyor systems
- Switch elements for roller conveyors
- Roller track ejectors
- Cross transfer systems for roller conveyors
- Scrapers and pushers for roller conveyors
- Omniwheel roller conveyors and Roller ball tables
We supply:

Curved flat belt conveyors
with guided high-tensile textile fabric belts, endless.

Curved wire mesh belt conveyors
(flat wire or round wire) with or without straight supply and discharge sections, usual curvature is 90°, also available in stainless steel.

Spiral belt conveyors
(spiral-shaped track) with plastic or wire mesh belts for storage- or process-related applications.

Flat top chain conveyors
for storage, accumulation, and transverse shifting of lightweight piece goods such as packaging goods, bottles, workpieces, etc. Also available as accumulating tables (for bottles), curved interlinking conveyors, conveying tracks for workpiece carriers and pallets, etc.
We supply:

**Hinged plastic belt conveyors**
equipped with hinged plastic belts that are widely used in the plastic-processing industry, e.g., for discharging plastic die-cast parts. They are very much suited for angled conveyor systems (L- or Z-shaped) and may also be placed into water baths. All hinged plastic segments are made from polypropylene, polyethylene, polyacetal or polyamide. Side wings limit the width of conveyance, while cleats guarantee faultless incline conveying.

**Bucket lifts**
These are used for vertical conveyance of small bulk parts. They only require a very small amount of floor space for installation; the material is conveyed upwards by plastic buckets which tilt upside down for discharging (as in any bucket conveyor).

**Compact bucket lifts**
If machines or systems require fully automatic feeding of mass parts at fixed intervals, our vertical lift loader fits the bill perfectly. This elevator automatically receives its batch from an upstream feeding hopper and then lifts and transfers it to the machine to be fed.

**Vibratory bowl feeders and centrifugal feeders**
for position-oriented lining up and feeding of small mass parts.
Rotationally symmetric parts, or parts of undefined, anisotropic, or undefined axial shape, can be metered, sorted and discharged in a position-oriented manner. Vibratory bowl feeders use a vibrating bowl (actuated electromagnetically) which has helical track elements for conveying and sorting the material; in contrast to this, centrifugal feeders meter and sort parts by means of quickly spinning rotary discs, taking advantage of small differences in the rotational speed of the feeder’s rotary elements.
We supply: 
**Hopper loaders**

with **hinged steel belts**. Integrated design with feeding hopper and elevator combined into a single unit. We have developed specially designed belt sides that guarantee all mass parts are conveyed without any material getting stuck or blocking the machine. This ensures a careful handling of all conveyed materials; the material is continuously discharged (metered) in small batches. This is a well-proven method particularly for charging vibratory bowl feeders. Filling level meters allow an automated feeding process.

Available types:

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>D-type hopper loader</strong></td>
<td>for lightweight and plastic parts</td>
</tr>
<tr>
<td><strong>DB V-type conveyor</strong></td>
<td>for small and lightweight parts; low feeding hopper height (only 550 mm)</td>
</tr>
<tr>
<td><strong>VHL vertical loader</strong></td>
<td>for small and heavyweight mass parts; large hopper capacity</td>
</tr>
<tr>
<td><strong>Lastikus</strong></td>
<td>for crude, heavyweight mass parts; higher feeding hopper load</td>
</tr>
<tr>
<td><strong>Lastikus disentangler</strong> (DB-Pat.)</td>
<td>for oblong parts which tend to hook together or get entangled</td>
</tr>
</tbody>
</table>

**Dimensions:**

<table>
<thead>
<tr>
<th>Effective widths:</th>
<th>200, 300, 400, 500, 600 or 800 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge heights:</td>
<td>between approx. 1100 and 3500 mm</td>
</tr>
<tr>
<td>Incline angles:</td>
<td>choice of 60°, 70°, 80° or 90°</td>
</tr>
<tr>
<td>Conveying speeds:</td>
<td>2, 3, 4 or 6 m/min alternative options: 1 - 6 or 1.3 - 8 m/min, continuously adjustable</td>
</tr>
<tr>
<td>Feeding hopper capacity:</td>
<td>150 to 350 litres</td>
</tr>
</tbody>
</table>
We supply:

**Rod feeders.**

`Diabolo`-type roller conveyors

with rod end connection feature, feedback channel, temporary buffer and storage for feeding induction heaters.

**Trunk manipulators** with downstream

Cooling belt conveyors (wire mesh-type)

for handling red-hot drop-forged parts of slim, oblong shape.

**Heavy-duty slat conveyors**

These conveyors are ideally suited for transporting heavy weight goods, such as red-hot forged parts, heavy castings, etc. They are used in all areas of the forging and coating industries; furthermore, our heavy-duty slat conveyors are used as components of the preparation and storage process in metal forming, machining and heat-treatment applications.

In the guiding areas of the machine, we use highly wear-resistant parts made of manganese steel, which significantly increases durability. This type of conveyor is also used in waste treatment and scrap recycling applications, as well as during the BY-transformation process (controlled cooling down; part of the hot forming process).

Our company specialises in solutions for transporting red-hot forged mass parts discharged from Hateful forging presses.

**Available options:**

<table>
<thead>
<tr>
<th><strong>Conveyor belt pitches:</strong></th>
<th>63 100 125 160 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shapes:</strong></td>
<td>straight, L- or Z-shaped</td>
</tr>
<tr>
<td><strong>Conveying distances:</strong></td>
<td>2 - 20000 mm</td>
</tr>
<tr>
<td><strong>Conveying speeds:</strong></td>
<td>2 3 4 or 6 m/min</td>
</tr>
</tbody>
</table>
We supply:
**Submerged conveyors**

for incline conveying of piece or mass goods that are submitted to hardening baths (oil, saline or water baths), cleaning baths, degreasing baths, soaking baths, wetting baths, or impregnation baths.

Different conveyor types - such as wire mesh, hinged belt, special synthetic fabric belt conveyors or magnetic slide conveyors - may be used, depending on the type of good that is to be treated. We use hinged steel belt or steel slat conveyors for extremely heavyweight parts.

We supply both single unit discharge conveyors and fully integrated immersion bath systems; the latter include the immersion tank, recirculation and cooling systems, pumps, heating registers, filters, and the required connecting slides or transfer systems to, respectively from, up- or downstream applications.

We specialise in products designed for industrial furnaces, coating processes, metal degreasing, vibratory finishing, preservation, surface finishing, soaking processes and the electrics and electronics business; we are furthermore experienced in cooling applications in the plastic and metal die-cast business. Our submerged conveyors transport a significant portion of all coin blanks through the required heat-treatment facilities.

Conveyed goods may range in size from smallest spring leafs up to excavator teeth or drop-forged truck parts – our conveying equipment is fit to handle all of these goods and more.
We supply:

**Machine feeders**
for feeding processing machines, assembly stations and fabrication centres.

Our feeders sort (i.e. separate), orient and quickly feed unsorted mass parts, workpieces and components.

Part separation is achieved either by the elevator belt or by designated vibratory, electromagnetic or pneumatic classifiers.

Parts are oriented either through gravity-based processes or by sensor-controlled actuators; the parts' shape may be checked at the same time or previous to this step.

Position- or orientation-based sorting is largely independent of the parts' shape, i.e. parts of almost any conceivable shape can be sorted and oriented.

We also supply **step loaders** with downstream sorting, orienting and transferring equipment, suitable for position-oriented feeding of oblong or cylindrical mass parts.

We supply:

**Single- and Multi-lane chain conveyors**
of different widths and chain pitches with any required track profile, length and overall height.
We supply:
Special equipment and interlinking installations
for automation applications; we also develop and manufacture custom-built conveyors for special applications.

For feeding automatic sawing machines and downstream equipment for automatic deburring, we supply elevator feeders, roller feeders as well as other customised solutions.

For flat membranes, plates, sheet metals, sheet steel blanks and flat semi-finished products, we supply palletisers for stacking and de-stacking applications.

For use in connection with hot-dip galvanisation of mass parts, we supply batching, centrifuging and quenching units.

For automatic assembly installations, we supply machines with circulating workpiece carriers, including infeed and outfeed stations, as well as tables with circulating workpieces and other circulating/rotary installations.

For dust- or pellet-covered flat mass parts, we also supply brushing and extraction units (clutch plate production etc.).
Sample analyser with vibratory feeder and round screen

Vibratory feeders

We supply:

- All types of vibratory feeders
- Vibratory feeders for dosing and metering applications
- Vibratory hopper feeders
- Vibratory hopper feeders/orienters
- Heavy-duty vibratory hopper feeders
- Vibrating screens

Large hopper feeder/orienter

Vibratory storage hopper for drop-forged goods
We supply:

Hydraulic dumpers (Hygo Series)
for smooth lifting, tilting and emptying of all kinds of bins and containers (load-bearing capacity between 500 kg and 3 t).

<table>
<thead>
<tr>
<th>Types:</th>
<th>Hygo</th>
<th>I</th>
<th>II</th>
<th>III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load capacities:</td>
<td>0.5</td>
<td>1</td>
<td>2</td>
<td>3 t</td>
</tr>
</tbody>
</table>

Lift dumpers (RB Series)
for lifting and emptying bins and containers (Schäfer-type boxes) with subsequent feeding of drum tumbler, deburring drums, vibratory finishing units, galvanic drums, etc.

| Load capacities: | 50 | 75 | 150 | 250 | 500 kg |
| Discharge heights: | 900 | 1100 | 1250 | 1500 mm |

Mechanical lift dumpers (LSB Series)
for lifting and emptying containers or for dumping mass parts filled directly into the unit’s bin.

| Types: | LL | L | LB | S |
| Load capacities: | 50 | 150 | 350 | 750 kg |
| Discharge heights: | 1350 - 3500 mm |

Twin-hydraulic lift dumpers (Lift-Hygo Series)
for lifting and dumping bins and containers weighing up to 1000 kg, lifting range up to 1800 mm.

Mechanical lift dumpers (Hebelix Series)
for lifting and dumping heavyweight containers; designed in conformance with German accident prevention guideline VGB 14 (chain protection and automatic shutoff) with additional automatic chain monitoring.

| Lifting capacities: | 500-3000 kg |
| Discharging heights: | between 1500 mm and approx. 10 m |
| Discharge angles: | 135°-180° |
| Power supply: | 230/400 V, 3-ph, 50 Hz |
| Control features: | Dead man’s switch for up and down operation (interlinked system available at request) |

Skip hoists
for lifting and dumping heavyweight containers (e.g. for feeding blasting machines, mills, crushers or hoppers); lifting capacity 1 to 3 t.

Combined weighing & feeding machines
for batching mass parts and small bulk parts in feeding, weighing and packaging applications (unit-based or weight-based feeding). A combination of electrical pressure gauges, vibratory feeders and vibratory hopper feeders guarantees a reliable batch weight control.
Mechanical lift dumpers

Batch chargers
Combined weighing & feeding machines
We supply:

**Degreasers and washers** using hot (neutral or alkaline), water-based cleaning solutions for degreasing/cleaning oily or polluted mass parts. Our cleaning machines can handle batches as well as continuous flows of material.

Drum-type and conveyor-type cleaning machines are available, each suitable for different goods. Both types are available in combined immersion-/spray-cleaning and spray-cleaning-only versions. Most cleaning machines are also fitted with an integrated dry heater. The actual cleaning process may be followed by one or two downstream rinsing zones.

Our washing and cleaning machines are available with either electrically or gas-powered heating installations. The drying zone is usually heated electrically.

**Rotomat batch washers**

These machines clean parts inside their bins or containers. The machine automatically covers the top of perforated bins and containers and then lowers them into the cleaning solution. Inside the solution, the bins/containers are rotated backwards and forwards multiple times in a gyroscopic motion. Afterwards, the charge is lifted up. The gyroscopic rotation is repeated to drain the charge which is also exposed to a hot-air blower at the same time.

**CONTI continuous washers**

(H-, Z- and V-types)

The parts to be cleaned are fed through the machine’s cleaning, rinsing and drying zones on a conveyor belt. The belt is made of stainless steel wire mesh or steel segments; special applications may also require hinged plastic belts.

| H-type: | with horizontal conveyor |
| Z-type: | with angled conveyor (horizontal inside bath/ inclined upwards in spraying zone/ horizontal in drying/discharge zone) |
| V-type: | with angled conveyor – horizontal receiving part (above bath level), inclined transport downwards into bath, inclined transport upwards into spraying zone (above bath level), horizontal transport in drying/discharge part |
Technical Data:  

Conti H-Type Series (horizontal conveyance)

| Throughput rates: | 100 – 300 kg/h, depending on size of goods to be cleaned |
| Effective widths: | 300 400 500 600 mm |
| Drive power: | approx. 1 kW |
| Pump power: | approx. 2 kW |
| Bath heating system: | 9, 12 or 18 kW |
| Blower: | approx. 1.5 kW |
| Dry heater: | 12 or 18 kW |
| Cycle time: | between 0.6 and 3 minutes, continuously adjustable |
| Power supply: | 230/400 V, 50 Hz |

Conti Z-Type Series (for parts insensitive to bulk-handling)

| Throughput rates: | 100 150 200 300 kg/h |
| Effective widths: | 400 500 650 800 mm |
| Drive Power: | 1.5 1.5 2.2 2.2 kW |
| Pump power: | 4 5.5 7.5 11 kW |
| Bath heating system: | 31.5 31.5 31.5 42 kW |
| Blower: | 2.2 2.2 2.2 4.4 kW |
| Air heater: | 18 18 18 36 kW |
| Cycle time: | between 0.9 and 7 minutes, continuously adjustable |
| Approx. weights: | 2400 2700 2900 3150 kg |
| The electrical bath and air heating systems require balanced 3-phase current. |
| Power supply: | 230/400 V, 50 Hz |

Conti V-Type Series (for parts sensitive to bulk-handling)

| Throughput rates: | 100 150 200 300 400 kg/h |
| Effective widths: | 400 500 650 800 1000 mm |
| Drive power: | 1.5 1.5 1.5 2.2 2.2 kW |
| Pump power: | 4 5.5 7.5 11 15 kW |
| Bath heating system: | 31.5 31.5 31.5 42 42 kW |
| Blower: | 2.2 2.2 2.2 4.4 4.4 kW |
| Air heater: | 18 18 18 36 36 kW |
| Cycle time: | between 0.9 and 7 minutes, continuously adjustable |
| Approx. weights: | 2050 2150 2450 2700 2900 kg |
| The electrical bath and air heating systems require balanced 3-phase current. |
| Power supply: | 230/400 V, 50 Hz |

We also supply:  

Highly effective, continuously-fed de-oiling centrifuges for oil-moistened small mass parts.  
Throughput rate 0.25 to 15 kg/min, 5 different types available.
Drum washers

These machines wash, rinse and dry the material in a cylindrical washing drum with helical conveying tracks on the inside.

Immersion drum washers STW

These washers clean the material inside a hexagonal washing drum which is filled, closed and then lowered into an immersion tank. The drum is then rotated backwards and forwards multiple times so the goods are thoroughly agitated and cleansed.
We supply:

**Continuous belt dryers**

for thermal drying of piece goods and mass parts. Fitted with wire mesh belts or perforated steel hinge belts, depending on size, shape, weight and wetness of the material to be dried. Our belt dryers are counterflow dryers, producing a counterflowing stream of hot air (electrically or gas-heated).

For special applications we also supply **Batch and continuous drum dryers** for use particularly in the galvanising and vibratory finishing industries.
We supply:
**Automatic batch chargers**
for inspection and checking as part of mass production processes or during ‘ghost shift’ production. Depending on the space available near the production machines or in general, different batch chargers may be used.

**Batch chargers with swivel chutes**
for feeding multiple boxes/containers arranged in a circular arc.

**Batching conveyors with in-line transfer units**
for filling boxes placed in-line with each other.

**Box servers**
for vertical preparation or storage of bins/containers.

**Rotary transfer tables**
with 4 to 14 compartments for batching mass parts.

We supply:
**Metering screws**
for precision-feeding of flowable product (fine-grained material, pellets).

**Flexible screw conveyors**
for conveying granules (e.g. plastic pellets) in feeding and decanting processes.

The product range presented in this catalogue can only give a partial impression of our complete product range and the custom-made equipment we are able to produce. A trusted long-time partner in conveying, feeding and interlinking applications, our company will be glad to take your inquiries and supply equipment that perfectly fits your needs.

Please direct any inquiries to the address below.