Handling and conveying systems – efficient and safe

- Elevators
- Trough chain conveyors
- Screw conveyors
- Conveyor belts
High-performing and present all over the world

Elevators
State-of-the-art elevators for vertical handling of bulk goods at rates up to 800 tonnes per hour.

Trough chain conveyors
Environmentally compatible low-stress handling of delicate products. Handles up to 600 tonnes per hour.

Screw conveyors
For a wide range of applications; low space requirements. Screw conveyors for handling up to 250 tonnes per hour.
  » Trough screw conveyors
  » Tube screw conveyors

Conveyor belts
All-purpose continuous conveyors with high hourly output rates (up to 1,300 t/h), low energy requirements, and excellent reliability.
  » U-section belt conveyors
  » Stressed-skin belt conveyors

Pellet handling data

Residue-free handling and conveying systems / materials

Our experience for your success
High-performing and present all over the world

The applications of modern handling and conveying systems are virtually unlimited. Handling and conveying systems made by Schmidt-Seeger are therefore the systems of choice for many branches of industry all over the world. Our brand name has become synonymous for the efficient and safe handling of bulk goods of all types.

Our elevators, conveyor belts, trough chain and screw conveyors and our numerous special models are designed specific to the product and are tailor-made to our customers’ requirements.

Solutions made by Schmidt-Seeger are always cost-effective. After all, high throughput rates and custom design have to remain affordable. That is why we are constantly optimizing our in-house processes. And why we uncompromisingly believe in rational and efficient manufacturing technologies. To meet these requirements for the benefit of our customers.

Thousands of successfully completed projects speak volumes about the performance and efficiency of our machines and plants. And they are convincing proof for satisfied customers and the quality of our products.
Elevators
Vertical take-off in mechanical handling

Modern elevator technology must meet today’s sophisticated quality criteria when it comes to economical, fast and reliable handling of large quantities of goods.

We pay attention to this requirement when developing and designing our elevators:

❯ **High Throughput capacity** (up to 800 tonnes per hour) with nevertheless compact sizes
❯ **Optimized reliability** thanks to an integral reversing lock, electronic speed monitoring, and electronic belt guide control (run-out monitor)
❯ **Flexible and cost-effective range** of applications thanks to a comprehensive accessories package

### Performance range
❯ From 5 t/h to 800 t/h

#### Elevator head
❯ Split hood for easy installation and maintenance
❯ Replaceable wear plate
❯ Inspection- and cleaning port at the discharge point
❯ Dust-protected bearings
❯ Drive with gear motor and flexible coupling
❯ Integral reversing lock for safe and reliable operation
❯ Optionally available with internal liner made of wear-resistant plastic
❯ Run-out monitor

#### Elevator foot
❯ Spindle-operated belt tension adjuster
❯ Generously dimensioned cleaning ports
❯ Integrated residue discharge slide
❯ Stave disc for gentle product pick-up
❯ Dust-protected bearings
❯ RPM- and run-out monitor

#### Belt
❯ Rubber belt with polyester liner
❯ Optionally available with PVC belt
❯ Optionally available with food-safe belts

#### Components

1. Elevator head
   Easy assembly and maintenance thanks to divided hood and exchangeable wearing plate as well as inspection opening
2. Elevator foot
   with inspection opening, dust- and debris-protected bearings, and spindle tensioning device
3. Stave disk
   in elevator foot for gentle product pick-up

#### Safety

1. RPM monitor
2. Run-out monitor
3. Inspection window
4. Reversing lock

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Components Safety
Specific applications require comprehensive accessories. Backed by our many years of involvement in a wide variety of fields we have developed a large number of components for customer-specific solutions.

Please let us know your specific needs and we shall be glad to advise you at any time and without any obligation.

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**Elevators**

**Accessories**

Heavy duty wear resistant plastic coating, e.g. for elevator head and foot, pipes and pipe parts - abrasion resistance 10-20 times better than steel

Solid casing

Prime coating + stove enamel finishing

Heavy duty wear resistant plastic coating

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**Elevators**

**Special designs**

**Z-track conveyors**

Developed mainly for use in the cement and building materials industry, the ceramics industry and the chemical industry sector, this model features a particularly sturdy construction. External bearings, a revolving Flexowell belt and strong cleats are further characteristics. Handling capacity ranges from 10 to 200 m³/h.

**Swing bucket elevators** for perfectly gentle handling of delicate products. Particularly suitable for use in the seed, animal feed and food industries.

**Chain elevators** are particularly suitable for use e.g. in the building materials industry. They are dust-proof and specially designed for handling coarse and hot products.
## Elevators

### Technical data

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity (t/h)</th>
<th>Max. Conveying Height (m)</th>
<th>Belt speed (m/sec)</th>
<th>RPM (t/min)</th>
<th>Buckets</th>
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Technical design may be subject to changes!
The capacity values specified above are based on cereal grains with a bulk weight of \( \gamma = 0.75 \) t/m\(^3\).
### Elevators

### Dimensions

#### Dimensions of elevators (mm)

<table>
<thead>
<tr>
<th>Type</th>
<th>Single components</th>
<th>Head + foot sheet thickness design</th>
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#### Dimensions of double elevators (mm)

<table>
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<td>550/550</td>
<td>6 2555 1514 363 321 385 1250</td>
<td>2030 1576 1203 238 578 305 250</td>
</tr>
</tbody>
</table>

Technical design may be subject to changes!

1) Dimensions of other nominal widths according to an extra dimension sheet

2) Dimensions have to be defined in accordance with the site situation
**Trough chain conveyors**

The particularly rugged handling and conveying systems!

Trough chain conveyors are always a good choice for handling particularly delicate products:

› Extremely gentle product handling thanks to an enclosed product layer.
› Bulk products are handled in a sealed trough for outstanding environment-friendliness and effective avoidance of dust and odour nuisances.
› Handling is possible in both the lower and the upper trough sections, or in both simultaneously. Trough chain conveyors can also be used as circulating conveyors.

**Drive station**
- Generously dimensioned drive unit with reserve capacity for output peaks
- Drive unit with flexible coupling and gear motor
- Overflow safety device with choke flap and limit switch
- Sturdy motor support

**Chain and trough**
- High-quality plate link chain in quality C45
- Hardened bolts and bushes in quality C15
- Integrated clean-out plastic strippers for residue discarding
- Idlers with ball bearings

Troughs are available in 3 different versions:
- **Version 1**: with wearing rail in quality C45
- **Version 2**: with plastic bottom for low-noise and low-wear conveying
- **Version 3**: with Rhino Hyde and guide bar (not shown)

**Tensioning station**
- With spindle tensioning device for the chain (with speed monitor on request)
A wide range of accessories and extras is available for all trough chain conveyors. The modular design allows a flexible and individual layout of the spouting systems and makes assembly easier than ever before, thus reducing assembly hours considerably!

In addition to our standard trough chain conveyors we also offer a wide range of special designs for all types of bulk goods used in many different sectors. Below please find a few examples:

- Trough for intake trough chain conveyors with sturdy roof and lateral inlets
- Outlet slide pneumatically operated
- Trough chain conveyor inlet
- Trough chain conveyor drive with infinitely variable geared motor – particularly suited for intake conveyors
- Outlet slide electrically operated
- Adjusting segment 30-60°
- Outlet slide with rack and pinion for manual operation
- Outlet hopper with round pipe transition piece
- Lateral inlet with capacity regulating valve
- Distribution/Discharge conveyor for automated flat storage warehouses
- Movable loading trough chain conveyor
Trough chain conveyors

### Dimensions

<table>
<thead>
<tr>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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</table>

### Single components

- **T** 80 H3: 758 mm
- **T** 80 H1: 608 mm
- **T** 60 H4: 608 mm
- **T** 60 H3: 541 mm
- **T** 60 H2: 485 mm
- **T** 60 H1: 420 mm
- **T** 60 V: 440 mm
- **T** 40 H2: 370 mm
- **T** 40 H1: 306 mm
- **T** 40: 270 mm
- **T** 30 V: 280 mm
- **T** 20 H: 220 mm
- **T** 16: 150 mm

### Technical data

#### Conveying capacity (t/h) for **m**

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#### Cross section (A m²)

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</table>

#### Dimensions (mm)

- **Pitch** (mm): 35/6
- **Conveying speed (m/sec)**: 10.0
- **max. conveying length (m)**: 75.0
- **Conveying capacity (t/h)**: 9.0
- **Pitch diameter (mm)**: 0.75
- **Conveying length (m)**: 10.0
- **Bulk weight (t/m3)**: 25.0

**Technical design may be subject to changes!**
Screw conveyors
Wide variety of uses – unchanging quality

Screw conveyors offer an enormous range of application possibilities – virtually without compromise.

In process engineering, technical processes such as e.g. mixing, heating, and moistening, cooling can be effectively combined with handling.

Important features
> Dust-free and odourless handling due to the possibility of completely sealing off the trough
> Simple integration into an overall system since the product can be charged and discharged at any point
> Space-saving design

Range of application – materials
> Galvanized sheet steel for outdoor use
> Stainless steel for the food industry and wet processing
> Powder-coated for indoor use

Important features
> Dust-free and odourless handling due to the possibility of completely sealing off the trough
> Simple integration into an overall system since the product can be charged and discharged at any point
> Space-saving design

Drive- and outer bearing
with flange type bearing. Optionally available with pedestal bearing and inserted stuffing box sealing.

Direct drive
by means of flexible coupling and geared motor or – on request – with infinitely variable geared motor.

Technical data

<table>
<thead>
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<th>Type</th>
<th>Capacity (t/h)</th>
<th>RPM (1/min)</th>
<th>Ascending slope (mm)</th>
<th>Drive pin (mm)</th>
<th>Screw blade (mm)</th>
<th>Drive pin (mm)</th>
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<th>End bearing (mm)</th>
<th>Trough + cover (mm)</th>
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<td>100</td>
<td>100</td>
<td>100</td>
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</table>

TL = available trough lengths: 1496 mm, 1746 mm, 1996 mm, 2246 mm, 2496 mm, 2746 mm, 2996 mm.

Technical design may be subject to changes!
The capacity values specified above are based on cereal grains with a bulk weight of \( \gamma = 0.75 \text{ t/m}^3 \) for horizontal handling.
Screw conveyors

Tube screw conveyors

Tube screw conveyors are a multi-purpose handling system for the clean and dust-free conveying of a wide range of products. Particularly suited for inclined/vertical handling with standard or conical thread.

We offer a wide range of special designs for virtually every purpose of use.

Depending on application, we use welded thick-wall spouts according to DIN 2448 or DIN 2458.

On request we also use galvanized or stainless steel.

1. Dust tight bearings with stuffing box sealing or additional bearing louver with shaft sealing ring ensure operational safety and long service life.

2. Direct drive with flexible coupling and gear motor.

In response to the requirements of the cereal grain, compound feed, food, construction materials and cement industry and of recycling operations, our design engineers have developed a wide range of special designs.

Our experienced engineers are committed to solving our customers’ individual problems now and in the future.

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**Screw conveyors**

**Special designs**

On request we also use galvanized or stainless steel.

1. Dust tight bearings with stuffing box sealing or additional bearing louver with shaft sealing ring ensure operational safety and long service life.

2. Direct drive with flexible coupling and gear motor.

Technical design may be subject to changes!

The capacity values specified above are based on cereal grains with a bulk weight of $\gamma = 0.75 \text{ t/m}^3$ for horizontal handling.

---

**Technical data**

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity (t/h)</th>
<th>RPM (r/min)</th>
<th>Ascending slope (mm)</th>
<th>Internal pipe (mm)</th>
<th>Screw blade (mm)</th>
<th>Drive pin (mm)</th>
<th>Intermediate bearing (mm)</th>
<th>End bearing (mm)</th>
<th>Trough + cover (mm)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>30</td>
<td>170</td>
<td>150</td>
<td>60.3 x 6.3</td>
<td>3</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>3</td>
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<td>174</td>
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<td>60.3 x 6.4</td>
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<td>40</td>
<td>3</td>
<td>246</td>
<td>224</td>
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<td>50</td>
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<td>3</td>
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<td>324</td>
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<td>439</td>
<td>400</td>
<td>250</td>
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<td>400</td>
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</table>

**Dimensions**

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity (t/h)</th>
<th>RPM (r/min)</th>
<th>Ascending slope (mm)</th>
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<td>439</td>
<td>400</td>
<td>250</td>
<td>400</td>
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</tr>
</tbody>
</table>

Technical design may be subject to changes!

The capacity values specified above are based on cereal grains with a bulk weight of $\gamma = 0.75 \text{ t/m}^3$ for horizontal handling.
**Conveyor belts**  
*A powerful link in handling and conveying systems*

Belt conveyor systems are the continuous handling means with the highest performance. Regardless whether delicate or corrosive products are handled. Belt conveyors are reliable and gentle, but above all cost-effective, energy-wise and flexibly product carriers.

**Important features**

❯ High performance, depending on the belt width and the belt speed
❯ Conveyor belts can be effectively integrated in automation concepts
❯ The traction carriers, which are embedded in rubber or plastic, are effectively protected against damage and moisture

**Conveyor belts**  
*U-section belt conveyors*

U-section belt conveyors have been specially developed for rough applications – such as e.g. for the building materials industry, where sturdiness and high load capacities matter. Drives, bearings, idlers and belts are therefore particularly sturdy.

The open design ensures simple and trouble-free maintenance.

---

*Conveyor belt installation*  
length 85 m, capacity 300 t/h

*Tripper*  
with electrical displacement

*Solid U-profile design*

❯ With clamp-fitted 3-piece support structure
❯ Maintenance-free carrying rollers running in ball bearings
❯ Actuation via laterally fitted geared motor
❯ Generously dimensioned conveyor belt
❯ Conveyor belt resistant against vegetable and animal oils and fats, or optionally against mineral oils and greases
**Conveyor belts**

**U-section belt conveyors: Technical data / Dimensions**

<table>
<thead>
<tr>
<th>Type</th>
<th>Conveying capacity (t/h) for v</th>
<th>Belt width (mm)</th>
<th>Max. length (m)</th>
<th>Troughing</th>
<th>Bearing stations</th>
<th>Return rollers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.6 m/s 2.1 m/s 2.6 m/s 3 m/s</td>
<td>650 800 1000 1200</td>
<td>250 250 250 250</td>
<td>3-piece 45°</td>
<td>93 1200 1200</td>
<td>99 / 133 3000</td>
</tr>
<tr>
<td>P 650</td>
<td>120 150 200</td>
<td>250 250 250 250</td>
<td>3-piece 45°</td>
<td>99 / 133 3000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P 800</td>
<td>200 250 300</td>
<td>250 250 250 250</td>
<td>3-piece 45°</td>
<td>99 / 133 3000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P 1000</td>
<td>300 400 500 600</td>
<td>300 300 300 300</td>
<td>3-piece 45°</td>
<td>99 / 133 3000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P 1200</td>
<td>400 600 800 1000 1200</td>
<td>300 300 300 300</td>
<td>3-piece 45°</td>
<td>99 / 133 3000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P 1400</td>
<td>500 800 1000 1200 1400</td>
<td>300 300 300 300</td>
<td>3-piece 45°</td>
<td>99 / 133 3000</td>
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**Dimensions (mm)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Single components</th>
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<tbody>
<tr>
<td></td>
<td>GB</td>
</tr>
<tr>
<td>P 650</td>
<td>950</td>
</tr>
<tr>
<td>P 800</td>
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<td>P 1000</td>
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<tr>
<td>P 1200</td>
<td>1600</td>
</tr>
<tr>
<td>P 1400</td>
<td>1800</td>
</tr>
</tbody>
</table>

Technical design may be subject to changes!

The capacity values specified above are based on cereal grains with a bulk weight of \( \gamma = 0.75 \text{ t/m}^3 \).

Higher capacities available on request!

---

**Flat belt**

with geared motor for handling bags, with safety pull cord switch

**High-capacity thrower belt conveyor**

for the storage of granular goods. Made of stainless steel, also suitable for aggressive materials.

**Troughed belt conveyor**

with undercarriage height adjustment, for handling bulk goods of all types.

---

* Length of possible belt tensioning S
  
  \( S = 1000 \text{ mm for } A \leq 60 \text{ m} \)
  
  \( S = 2000 \text{ mm for } 60 < A \leq 120 \text{ m} \)

  For \( A > 120 \text{ m} \), weight-loaded belt tensioning stations for \( S > 2000 \text{ mm} \) will be used.
Conveyor belts

Stressed-skin conveyor belts

Stressed-skin conveyor belts have a modular design. The fully preassembled segments and light-weight construction make this design a particularly cost-effective investment. Safe and reliable transportation thanks to the laterally sealed belt framework.
**Conveyor belts**

**Stressed-skin conveyor belts: Technical data / Dimensions**

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity (t/h)</th>
<th>Belt speed (m/s)</th>
<th>Troughing</th>
<th>Carrying idlers</th>
<th>Return rollers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Diameter (mm)</td>
<td>Distance (mm)</td>
</tr>
<tr>
<td>M 500</td>
<td>60</td>
<td>1.68</td>
<td>500</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>MN 650</td>
<td>120</td>
<td>2.09</td>
<td>800</td>
<td>63</td>
<td>63</td>
</tr>
<tr>
<td>M 800</td>
<td>200</td>
<td>2.09</td>
<td>800</td>
<td>63</td>
<td>63</td>
</tr>
</tbody>
</table>

Technical design may be subject to changes!
The capacity values specified above are based on cereal grains with a bulk weight of $\gamma = 0.75 \text{ t/m}^3$ for horizontal handling.

---

**Pellet handling data**

**Elevators, trough chain conveyors, conveyor belts**

**Elevators**

<table>
<thead>
<tr>
<th>Type</th>
<th>Conveying capacity (t/h)</th>
<th>Belt speed (m/s)</th>
<th>Buckets</th>
<th>Height (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Size</td>
<td>Quantity</td>
</tr>
<tr>
<td>F 386</td>
<td>40</td>
<td>2.1</td>
<td>50/6</td>
<td>42</td>
</tr>
<tr>
<td>F 420</td>
<td>120</td>
<td>2.1</td>
<td>50/6</td>
<td>42</td>
</tr>
</tbody>
</table>

Technical design may be subject to changes!

All capacity values specified above are based on pellets with a bulk weight of 0.6 m/t³.

---

**Trough chain conveyors**

<table>
<thead>
<tr>
<th>Type</th>
<th>Conveying capacity (t/h)</th>
<th>Max. motor power (KW)</th>
<th>Conveying chain Max. length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Type</td>
</tr>
<tr>
<td>2W6</td>
<td>40</td>
<td>9.2</td>
<td>50/6</td>
</tr>
<tr>
<td>40</td>
<td>80</td>
<td>9.2</td>
<td>50/6</td>
</tr>
<tr>
<td>40-2</td>
<td>80</td>
<td>9.2</td>
<td>50/6</td>
</tr>
<tr>
<td>50</td>
<td>120</td>
<td>15</td>
<td>50/6</td>
</tr>
<tr>
<td>50-2</td>
<td>120</td>
<td>15</td>
<td>50/6</td>
</tr>
</tbody>
</table>

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**Conveyor belts**

<table>
<thead>
<tr>
<th>Type</th>
<th>Conveying capacity (t/h)</th>
<th>Speed (m/s)</th>
<th>Belt width (mm)</th>
<th>Troughing</th>
</tr>
</thead>
<tbody>
<tr>
<td>MN 650</td>
<td>40</td>
<td>168</td>
<td>650</td>
<td>18°</td>
</tr>
<tr>
<td>M 800</td>
<td>168</td>
<td>168</td>
<td>800</td>
<td>25°</td>
</tr>
</tbody>
</table>

Technical design may be subject to changes!

All capacity values specified above are based on pellets with a bulk weight of 0.6 m/t³.

---

Read more about:

- Elevators on pages 6-13
- Trough chain conveyors on pages 14-19
- Conveyor belts on pages 24-31
Residue-free handling and conveying systems
Special elevator and trough chain conveyor designs

Our special elevator and trough chain conveyor designs allow virtually residue-free handling. Minimized gaps and a geometrically optimized layout of the conveyor components leave virtually no spaces or dead angles where residue might accumulate. This innovation allows compliance with the hygiene directives, especially for the chemical, animal feed and food industries.

The advantages of residue-free handling and conveying systems
- Hygienic conveying
- No residues
- No contamination

Materials

Material varieties

Powder coating
Powder coating is a standard procedure at Schmidt-Seeger. This type of surface refinement is always advisable when working surfaces must be particularly smooth and resistant.

Galvanizing
Hot-galvanized sheet metal is chosen specially for outdoor use under varying weather conditions. This ensures maximum corrosion protection and a long service life at only moderate additional cost.

Stainless steel
Stainless steel sheets are given preference in the food industry. In addition, stainless steel is recommended for handling particularly corrosive products such as e.g. fertilizers or salts.
Many years of experience and continuous development work are the basis for high-quality and high-performance products. Handling and conveying systems made by Schmidt-Seeger are economically advantageous and effective. The product-specific design of the handling equipment guarantees the delivery rates demanded by the customers while ensuring optimum product protection and low reject rates. The use of state-of-the-art manufacturing technologies such as e.g. welding robots, combined with the use of high-quality, wear-resistant materials ensure long service life. Sophisticated yet uncomplicated designs ensure fast and easy machine assembly and smooth replacement of components if needed. Safe operation of our machines and plants is our number-one priority. Control mechanisms like run-out monitors, electronic rev meters and integrated reversing locks help prevent accidents. All our designs are explosion-proof in accordance with the ATEX explosion safety directive.