



Mixing & Cleaning

GEBR. RUBERG

MASCHINENFABRIK

ORIGINAL – SINCE 1848

RUBERG

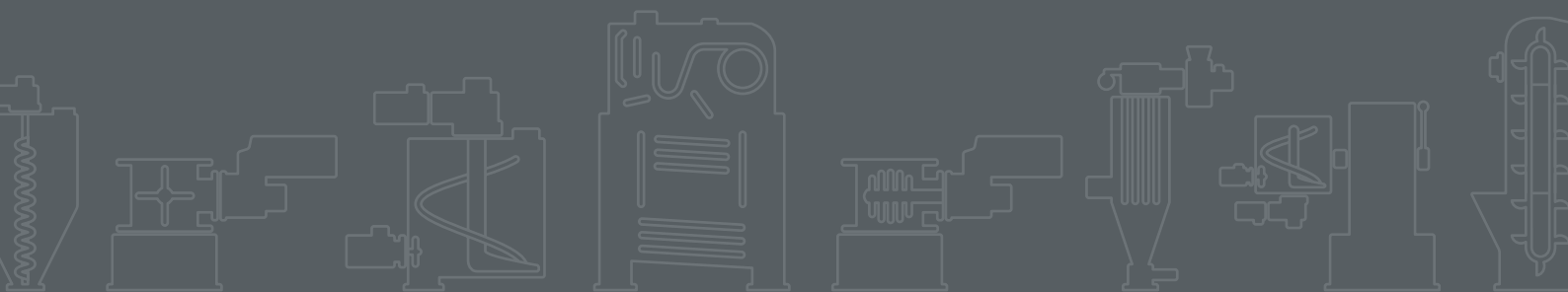
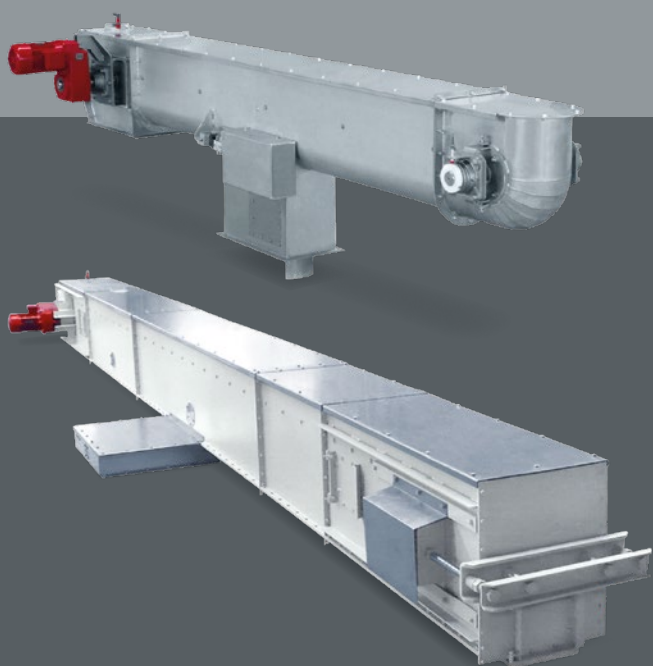
Conveyor elements

- Bucket elevator conveyor | BWF series
- Trough chain conveyor | TKF series
- Conveyor belts | FBA series
- Screw conveyor | SFA series
- Conveyor systems

Technical data sheet and product overview

Areas of application:

- ▶ Chemistry
- ▶ Building materials
- ▶ Plastics
- ▶ Animal feed
- ▶ Coffee & tea



RESEARCH | DEVELOPMENT | DESIGN | ENGINEERING | SERVICE

CONTENTS

- 04 Bucket elevator conveyor | BWF series
- 08 Trough chain conveyor | TKF series
- 12 Conveyor belts | FBA series
- 14 Screw conveyor | SFA series
- 18 Conveyor systems





Bucket elevator conveyor | BWF series



BWF
RUBERG

The ideal solution for
vertical transport

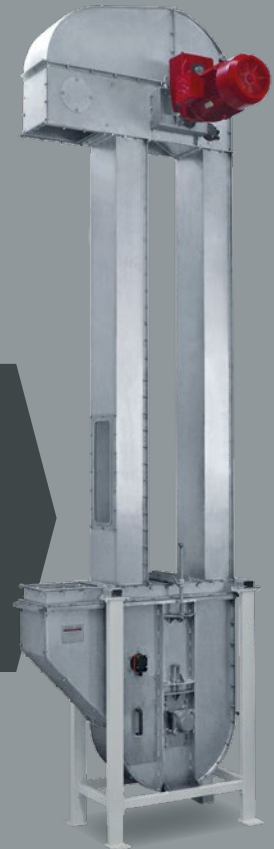
- ▶ For the vertical transport of bulk materials
- ▶ Delivery rate 5 - 1 000 m³/h
- ▶ Belt pulley diameter 300 - 1 000 mm

Performance, materiality & use

RUBERG bucket elevator conveyors in single or double design, as belt or chain bucket elevator with a capacity from 5 to 1 000 m³/h, in normal, stainless or special steel design, special designs also in wood.

- ▶ The ideal solution for vertical transport! Coarse- and fine-grained or powdered bulk materials are moved gently coarse and fine-grained or powdery bulk materials are moved.
- ▶ Due to the flexible modular design, special building conditions or locations are our particular challenge.
- ▶ The output and the product type determine the design and the types of buckets and belts. The buckets are available in normal, stainless steel or plastic versions. Rubber elevator belts in normal or oil/grease resistant versions.

Type BWF 500/280
Stainless steel
Material: 1.4301.
For animal feed



Design variants

Three-piece bucket elevator head, with built-in belt pulley or sprockets with solid ball bearings. Head lining made of wear-resistant material. Driven by a hollow shaft slip-on gear motor. With safety devices such as backstop and skew monitoring.

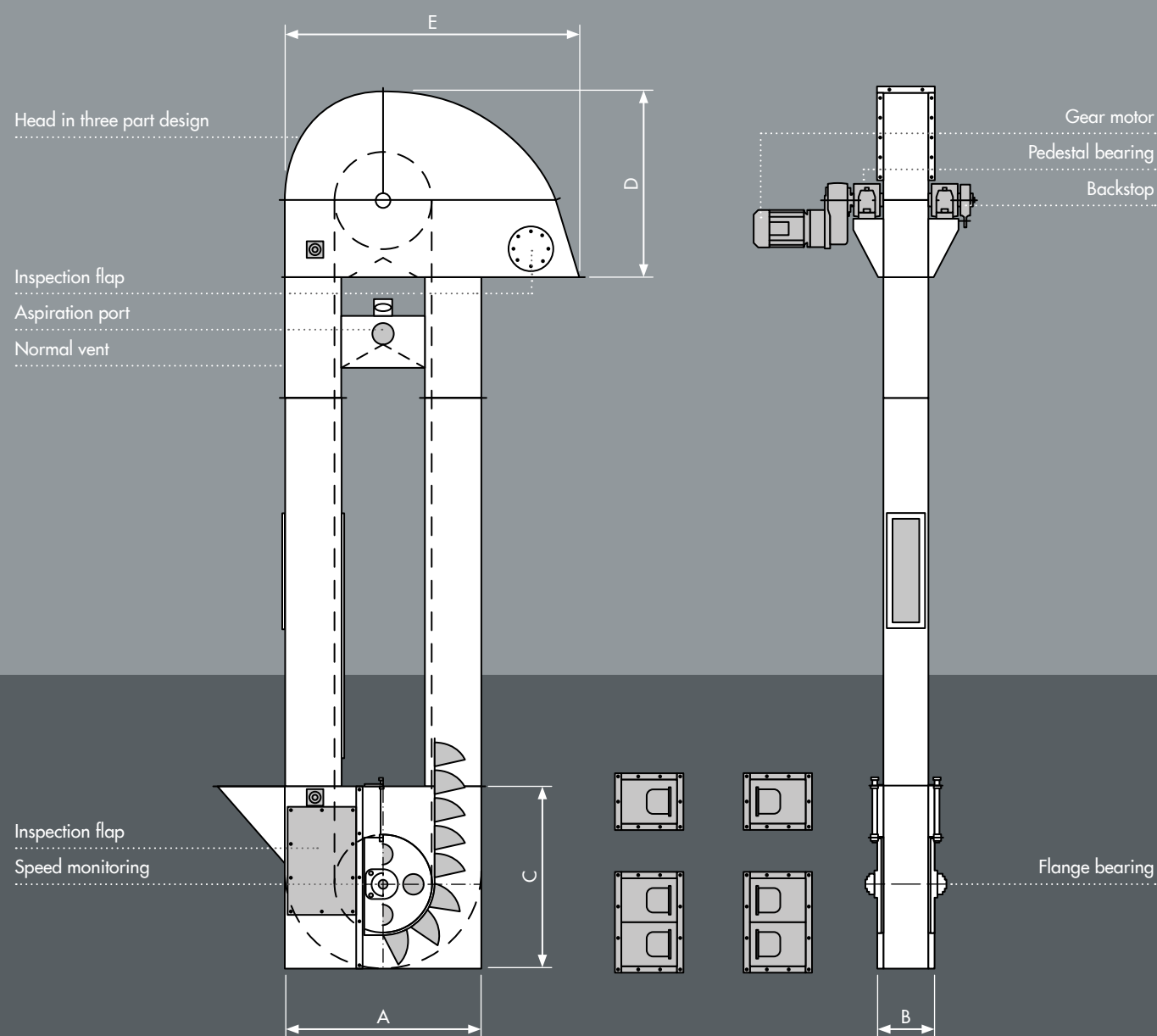
Bucket elevator vents in square or round design in staggered lengths. One vent pipe each with built-in mounting flap and inspection window.

Bucket elevator foot with smooth belt pulley, grid pulley or sprockets. Inlet nose on one or both sides. Feed metering by rack and pinion or manual slide valve. With cleaning slides on both sides. Mechanical device for tensioning the belts or chains. With backstop, skew and speed monitoring for a high level of safety.

The foot is optionally available in a round-bottom design without carry-over, or alternatively with a large discharge gate below the foot for complete emptying.

Bucket elevator conveyor in pressure shock resistant design, with bursting disc and pressure relief channel. All bearings are available with temperature monitoring as optional equipment.

Bucket elevator conveyor | BWF series

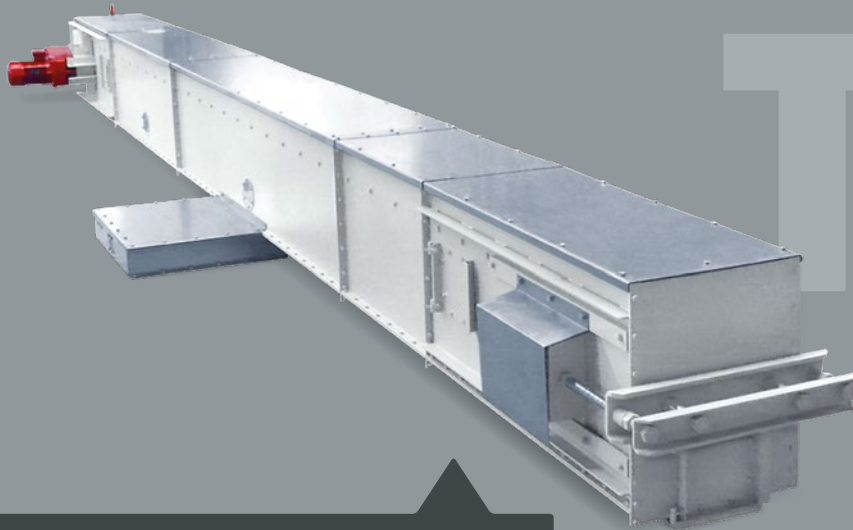


BWF

Performance data & dimensions – at bulk density of 0.75 kg/l

| Type | Outputs up to t/h | Belt disc Ø in mm | Belt disc width in mm | Belt width in mm | Bucket width in mm | Approx. dimensions | | | | |
|-------------|----------------------|----------------------|-----------------------------|---------------------|--------------------------|--------------------|------------|------------|------------|------------|
| | | | | | | A in mm | B in mm | C in mm | D in mm | E in mm |
| BWF 400/140 | 25 | 400 | 140 | 120 | 100 | 700 | 220 | 950 | 830 | 1100 |
| BWF 400/170 | 40 | 400 | 170 | 150 | 130 | 710 | 220 | 950 | 830 | 1100 |
| BWF 500/170 | 40 | 500 | 170 | 150 | 130 | 920 | 220 | 960 | 920 | 1420 |
| BWF 500/220 | 100 | 500 | 220 | 200 | 180 | 920 | 280 | 960 | 990 | 1420 |
| BWF 500/280 | 150 | 500 | 280 | 250 | 230 | 1010 | 395 | 960 | 990 | 1510 |
| BWF 630/330 | 200 | 630 | 330 | 300 | 280 | 1400 | 500 | 1440 | 1235 | 1920 |
| BWF 630/380 | 300 | 630 | 380 | 350 | 330 | 1500 | 550 | 1440 | 1240 | 1950 |

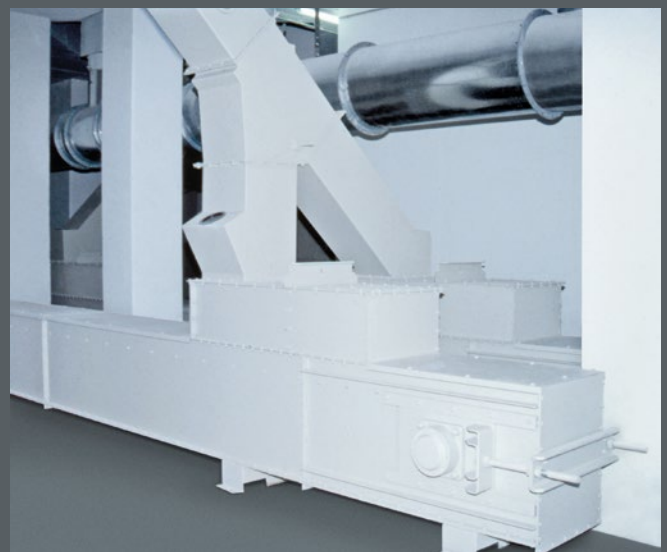
Trough chain conveyor | TKF series



TKF
RUBERG

Optimal for horizontal,
inclined or vertical transport

- ▶ For horizontal and vertical transport of bulk materials
- ▶ Delivery rate 5 - 1 000 m³/h
- ▶ Closed modular system



Performance, materiality & use

RUBERG trough chain conveyors in flexible design in capacity sizes 5 to 1 000 m³/h. Conveyor link chains pull the bulk material completely dust-free in a closed sheet steel housing.

- ▶ The low chain speed results in particular protection of the conveyed material.
- ▶ A closed housing prevents dust emissions and contamination.
- ▶ Inlets and outlets can be flexibly positioned.
- ▶ Clean emptying is ensured by the curved round bottom. Plastic driver for quiet operation.
- ▶ To minimize drive power and noise emission, plastic liners are optionally available for this purpose.



Design variants

Drive station in reinforced steel plate design with hardened sprocket, industrial ball bearing. Drive via hollow shaft slip-on gear motor with damped torque support.

Tensioning station with tension or pressure spindles for tensioning the conveyor chain, with built-in deflection sprocket and industrial ball bearing.

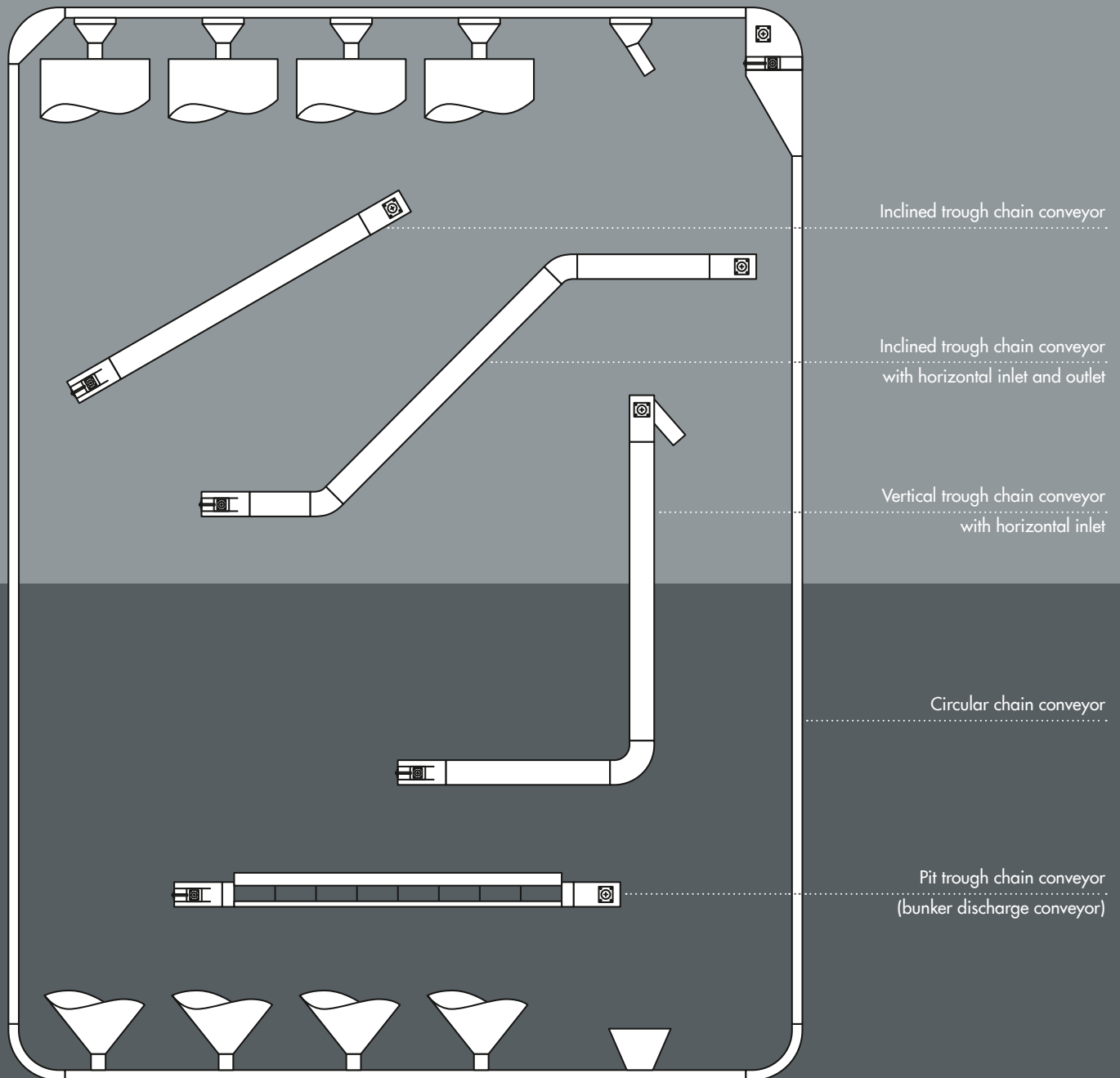
Trough joints available in staggered lengths. Trough chain conveyor with single bottom plate and screwed guide rail, with ball bearing rollers for return of the conveyor chain. In the case of intermediate floor design, ledges enable the return of the conveyor chain. The trough parts are flanged for connection.

Trough conveyor chain as single strand or multiple strand design with bent, welded or bolted flights. Bearing bushes, pins and chain plates made of high quality hardened steel.

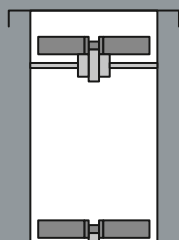
In mild steel version primed for indoor use. In moisture-proof, galvanized design for outdoor use. For special applications also in stainless steel, pickled and passivated or ground or glass bead blasted.

Bulk detector, speed monitor and trough shocks with inspection window as accessories.

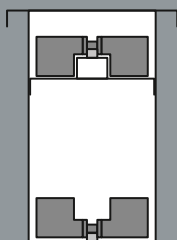
Trough chain conveyor | TKF series



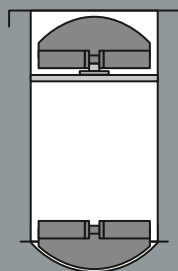
Trough chain conveyor
for horizontal conveying



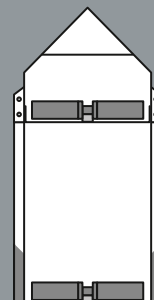
Trough chain conveyor
for inclined conveying



Trough chain conveyor
for residual emptying



Pit trough chain conveyor
(bunker discharge conveyor)



TKF

Performance data & dimensions – for heavy grain from 0.75 kg/l

| Type | Outputs up to t/h | Total chain width in mm | Chain pitch in mm | Trough width in mm | Trough height in mm | Length of drive station in mm | Length of clamping station in mm |
|---------|----------------------|-------------------------------|----------------------|-----------------------|------------------------|-------------------------------------|---|
| TKF 190 | 25 | 170 | 125 | 190 | 400 | 946 | 946 |
| TKF 220 | 40 | 200 | 125 | 220 | 440 | 946 | 946 |
| TKF 255 | 70 | 235 | 125 | 255 | 440 | 946 | 946 |
| TKF 315 | 120 | 300 | 150 | 315 | 440 | 946 | 946 |
| TKF 400 | 150 | 380 | 150 | 400 | 460 | 946 | 946 |
| TKF 500 | 300 | 480 | 160 | 500 | 690 | 1430 | 1430 |

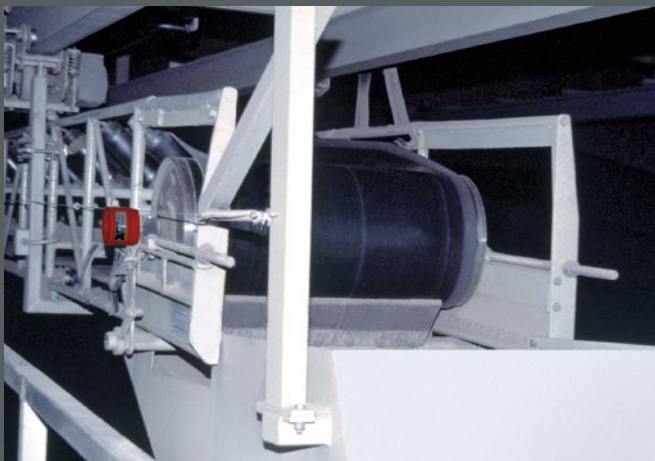
Conveyor belts | FBA series



FBA

RUBERG

Powerful
horizontal transport



- For the horizontal transport of bulk materials
- Delivery rate 5 - 1 000 m³/h
- Open or closed modular system
- For hall loading and unloading
- With scraper for optimum bulk material levelling in flat stores

Design variants

RUBERG conveyor belts as high-performance continuous conveyors for all types of grain, oilseeds, feed, fertilizer and other bulk materials.

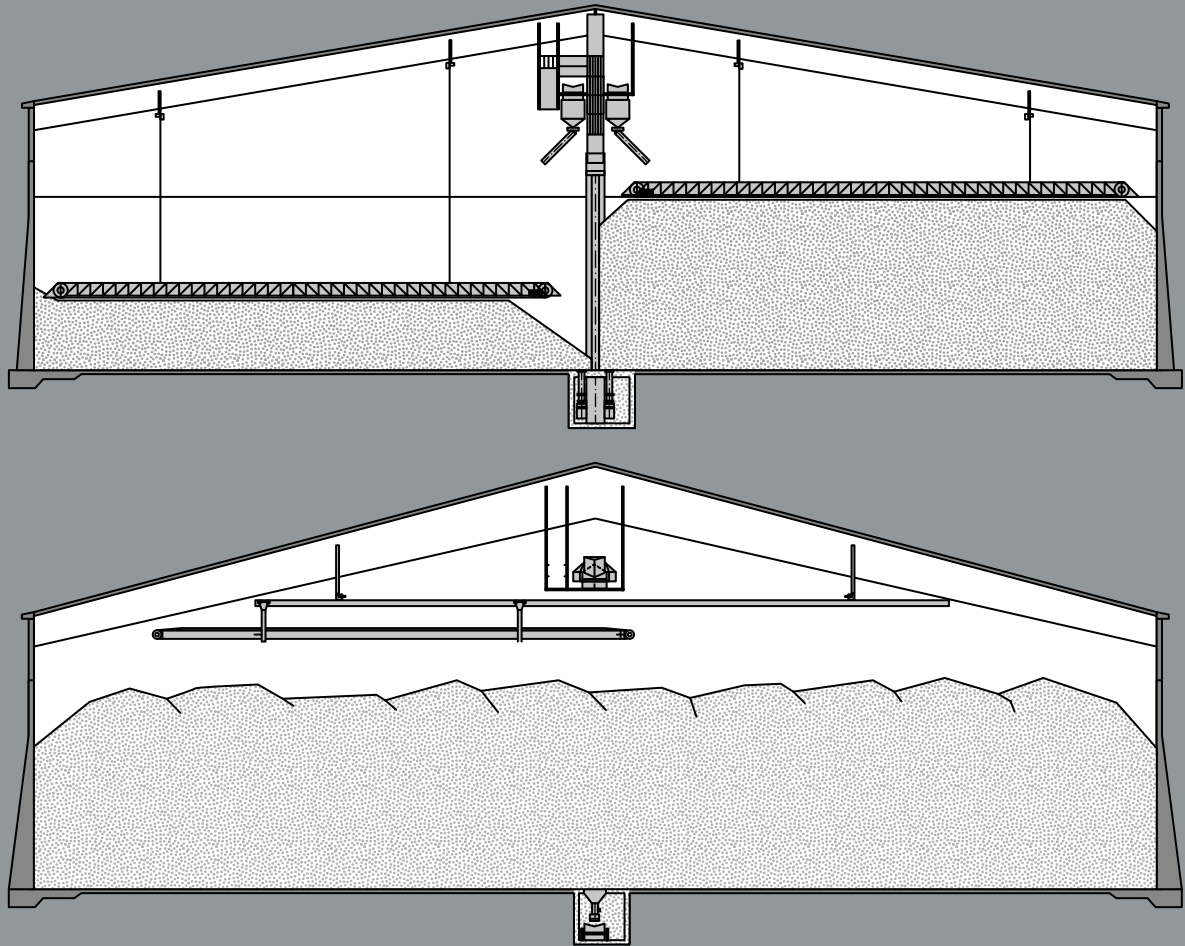
The intermediate joints with support rollers in two- or three-part trough design and belt return rollers. Carrying rollers with maintenance-free ball bearings.

RUBERG conveyor belts are very suitable for hall loading and unloading.

Built in modular design, consisting of the drive and discharge station, intermediate joints and tensioning station.

The drive is provided by drum motor or directly coupled gear motor. The tensioning station is equipped with threaded spindles or counterweights for belt tensioning.

High functional reliability is ensured by electronic skew and speed monitoring systems as well as by optional discharge detectors in the infeed and discharge hoppers.



Economical storage and removal of grain and oilseeds in horizontal silos (halls).

Mode of operation

For hall loading, the product moves to the centre of the hall via a stationary conveyor belt. A cross conveyor belt distributes the product laterally and axially over the entire hall area.

In the case of divided halls, all parts of the hall can be reached by the product through swivel tubes at the outlets on the longitudinal conveyor belt.

Bulk material is levelled by means of a scraper, belt or screw system.

For hall discharge, scrapers are suspended from longitudinal hoists and can be lowered for product discharge.

Performance, sizes & materiality

Various belt widths for the conveyor belts enable the highest possible outputs of 5 to 1 000 m³/h with the lowest energy requirements.

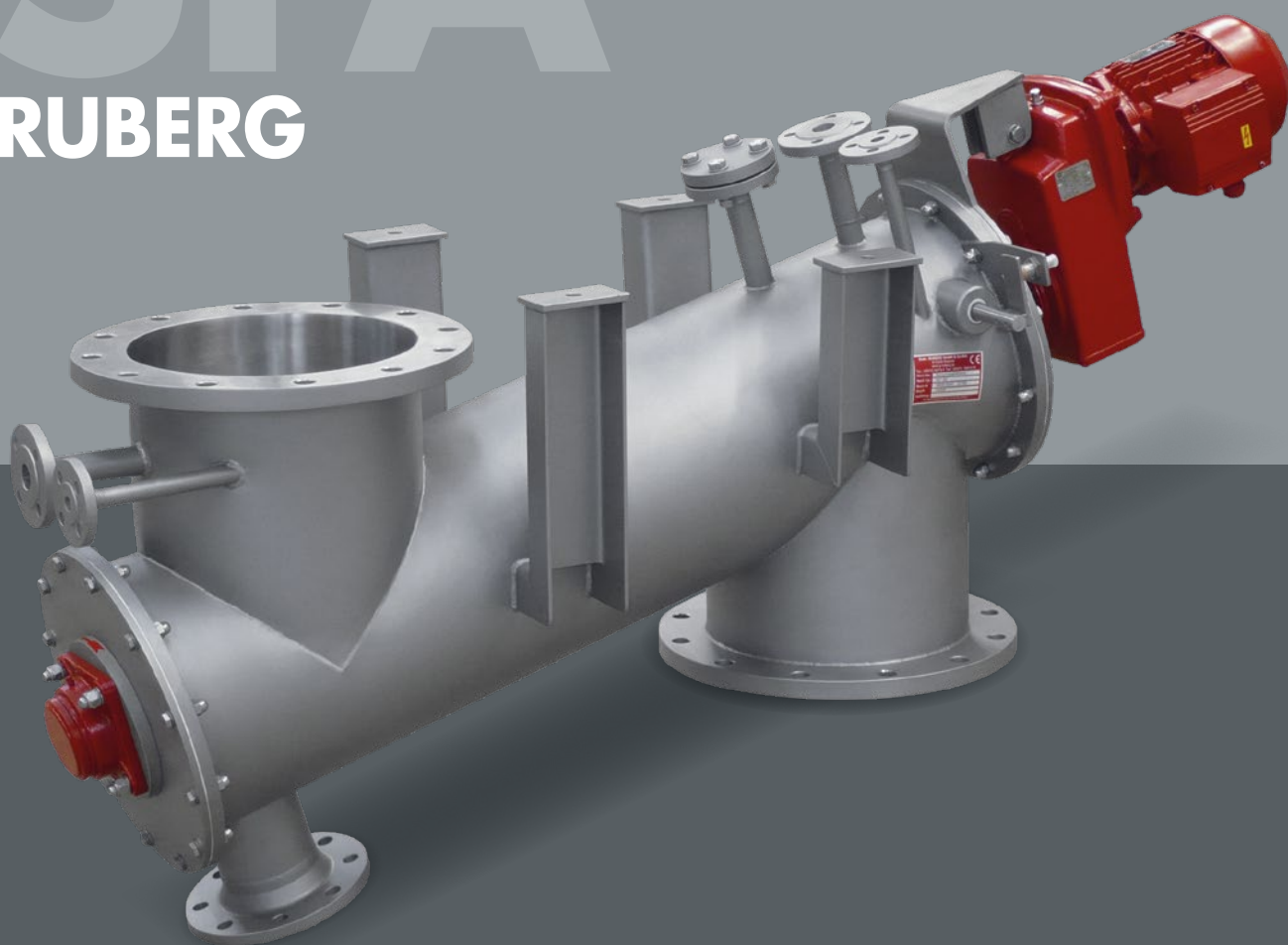
Possible belt widths are 300 mm, 400 mm, 500 mm, 600 mm, 800 mm, 1 000 mm, 1 200 mm, 1 500 mm and 2 000 mm. The tape is suitably vulcanized to length endless.

RUBERG conveyor belts can be supplied in steel design primed, galvanized or in stainless steel. For outdoor installation with galvanized rain hood. Complete with belt feeding station. Discharge hopper or also with belt discharge carriage.

Screw conveyor | SFA series

SFA

RUBERG



- ▶ For horizontal and vertical transport of bulk materials
- ▶ Delivery rate 1 - 250 m³/h
- ▶ Screw diameter 100 - 800 mm
- ▶ in modular design, as tube or trough screw conveyor

Mode of operation

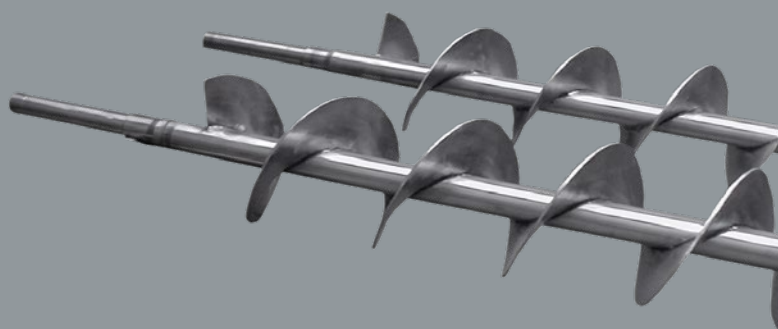
The RUBERG screw conveyor is a versatile conveying element that is suitable for all types of bulk materials thanks to its wide range of designs. Minimum space requirement due to very compact design. Dust-free environment due to low screw speed and closed housing. Screws in standard and stainless steel or special steel, in all diameters and lengths.

Depending on the application, RUBERG screw conveyors are used for vertical and horizontal transport. Other applications include metering screws, discharge screws, collecting screws and other designs with normal, conical or progressive threads.

Material thicknesses depend on the application and field of use.

Design for food and chemical applications in stainless steel, for abrasive bulk materials in wear-resistant materials. For caking products with non-stick coating.

Short screws are supported free-floating on one side, while longer lengths are designed with intermediate bearings.



Design variants

RUBERG screw conveyors as welded sheet steel construction. Headpieces with integrated or mounted bearing. Drive and bearing journals are sealed by mechanical seals, shaft seals or stuffing box packings.

Drive types such as hollow shaft slip-on gearmotor, electric motor with flexible coupling, hydraulic motor, V-belt or chain drive.

Screw trough or pipe in modular construction flanged or welded in one piece. Strong-walled core tube with spirals welded on both sides.

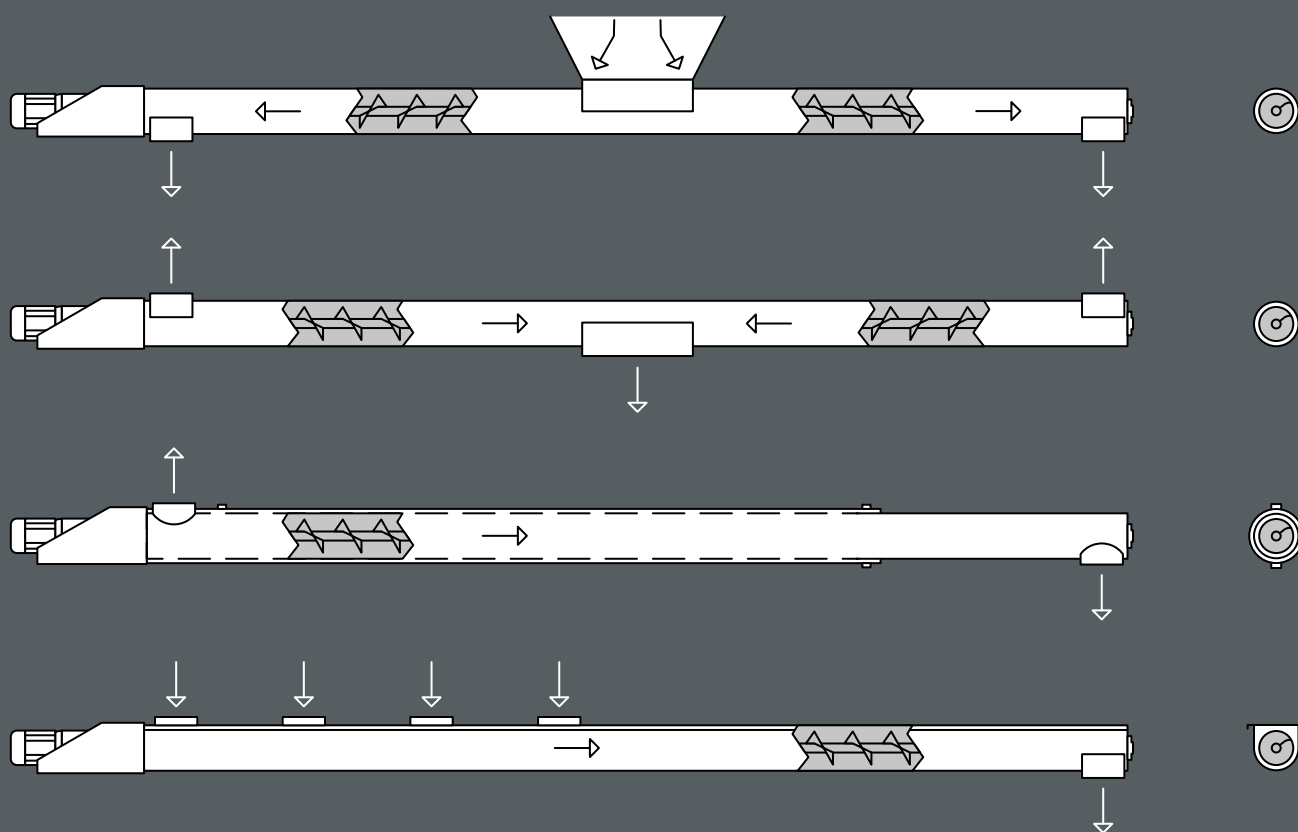
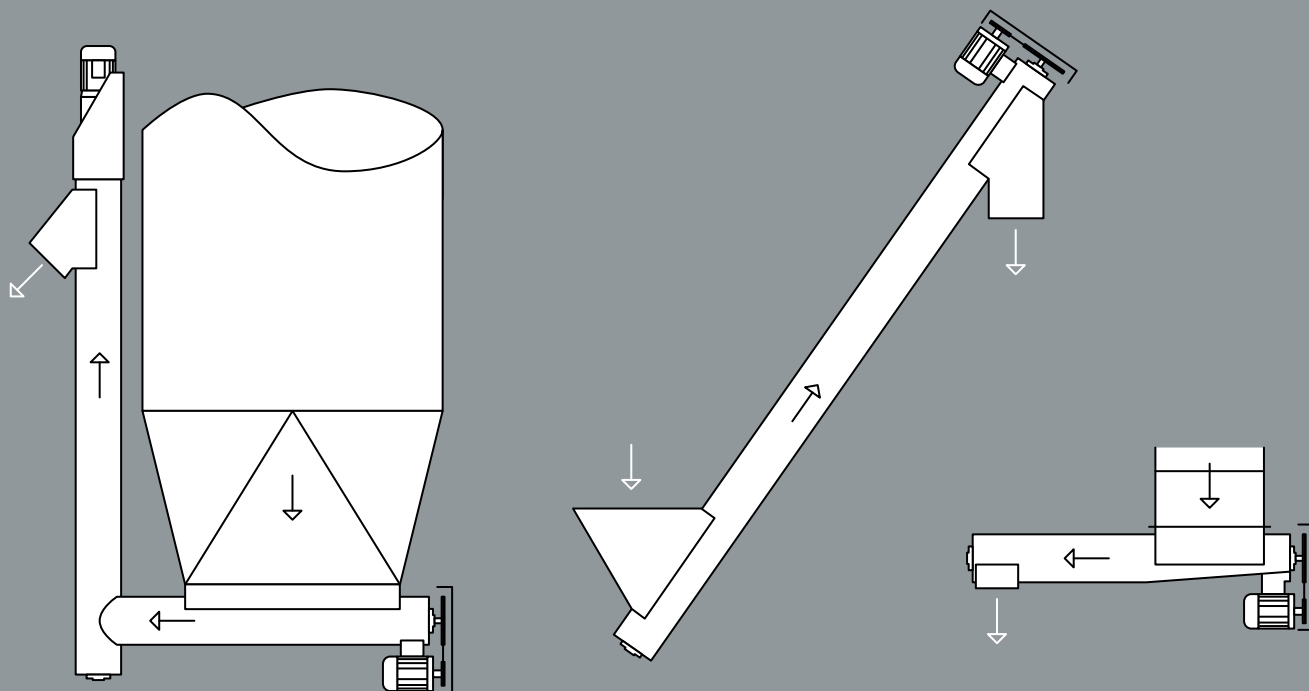
For long screws, maintenance-free and automatically lubricated or self-lubricating bearing materials are available.

For process application with heating or cooling jacket, heated or cooled screw spirals. As a mixing tool in special shapes, e.g. paddle screws.

In mild steel version primed for indoor use. In moisture-proof galvanized design for outdoor use. For special applications also in stainless steel, pickled and passivated or ground or glass bead blasted.



Screw conveyor | SFA series



SCREW CONVEYOR

Conveyor systems

CONVEYOR

RUBERG

Exterior view – Silo plant with bucket elevators and trough chain conveyors, conveyor belts and screw conveyors.



R SYSTEMS

Interior views – The plant components are made of standard steel or stainless steel for every capacity and application.



RUBERG Technology Centre

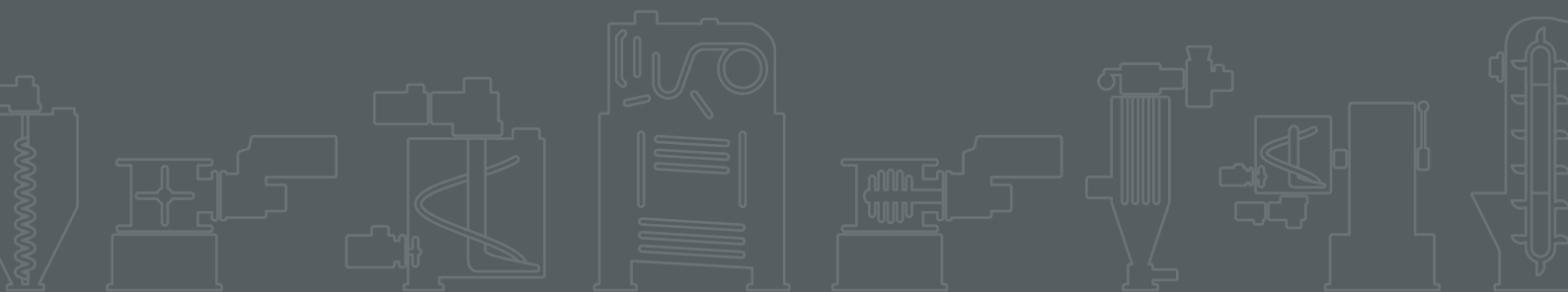


GEBR. RUBERG

MASCHINENFABRIK

ORIGINAL – SINCE 1848

Would you like more information about these RUBERG machine types? – Contact us, we will be happy to advise you!



Gebr. Ruberg GmbH & Co. KG – Maschinenfabrik • Christian-Ruberg-Straße 4 • 33039 Nieheim, Germany
Phone +49 (0) 52 74 - 9 85 10 - 0 • info@g-ruberg.de • www.g-ruberg.de