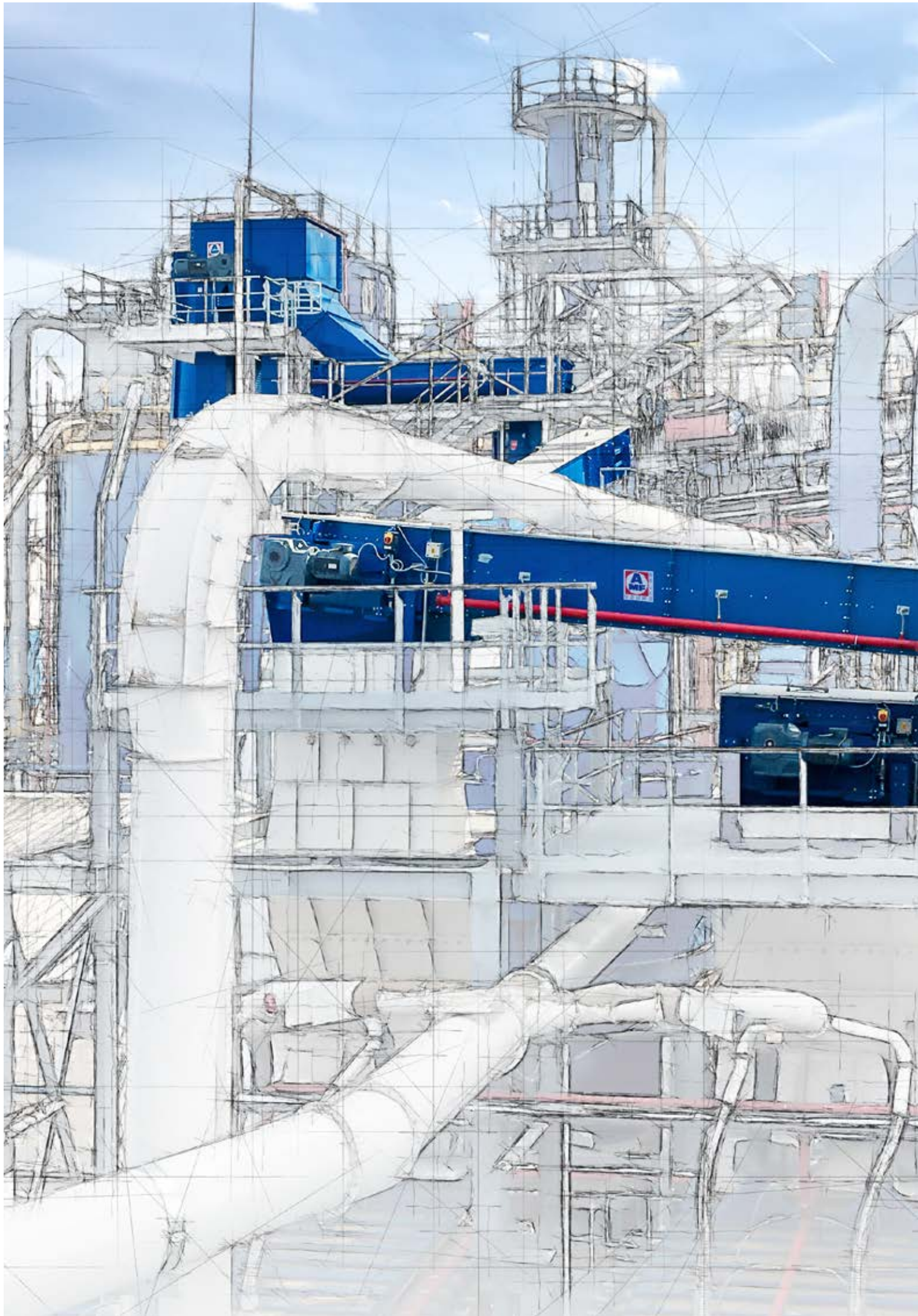


Conveyor systems product overview

Technical data



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Contents

Trough screw conveyors TSF 100 to TSF 1400 4

Pipe screw conveyors RSF 100 to RSF 1400..... 5

Double screw conveyors DSF 100 to DSF 1400 6

Screw heat exchangers SWT 250 to SWT 800..... 7

Vertical screw conveyors SRF 250 to SRF 1400..... 8

Belt conveyors MGF 300 to MGF 2000..... 9

Airslide conveyors LGF 10

Sliding belt conveyors GGF 11

Trough chain conveyors with single-strand chain TKF 200 to TKF 1000 12

Drag chain conveyors with forked chain KKF 400 to KKF 2000 13

Drag chain conveyors with link chain KKF 400 to KKF 2200..... 14

Drag chain conveyors especially for OSB systems KKF 800 to KKF 2200 with link chain..... 15

Bucket belt elevators GBW 80 to GBW 1250..... 16

Bucket chain elevators with round link chains KBW 160 to KBW 1000 17

Manual & electrical flat sliders with flat gears FLS EL 180 to FLS EL 1040 18

Pneumatic flat sliders activated FLS PNE 180 to FLS PNE 1040 19

Pneumatic, electrical and manual exchange valve WSK 180 to WSK 1450..... 20

Chain conveyors KGB 150m3 to KGB 600m3 21

Push and pull floors SUB..... 22

Silo systems 23

Discharge screw conveyors with bunker outlet SAB..... 24



Trough screw conveyors

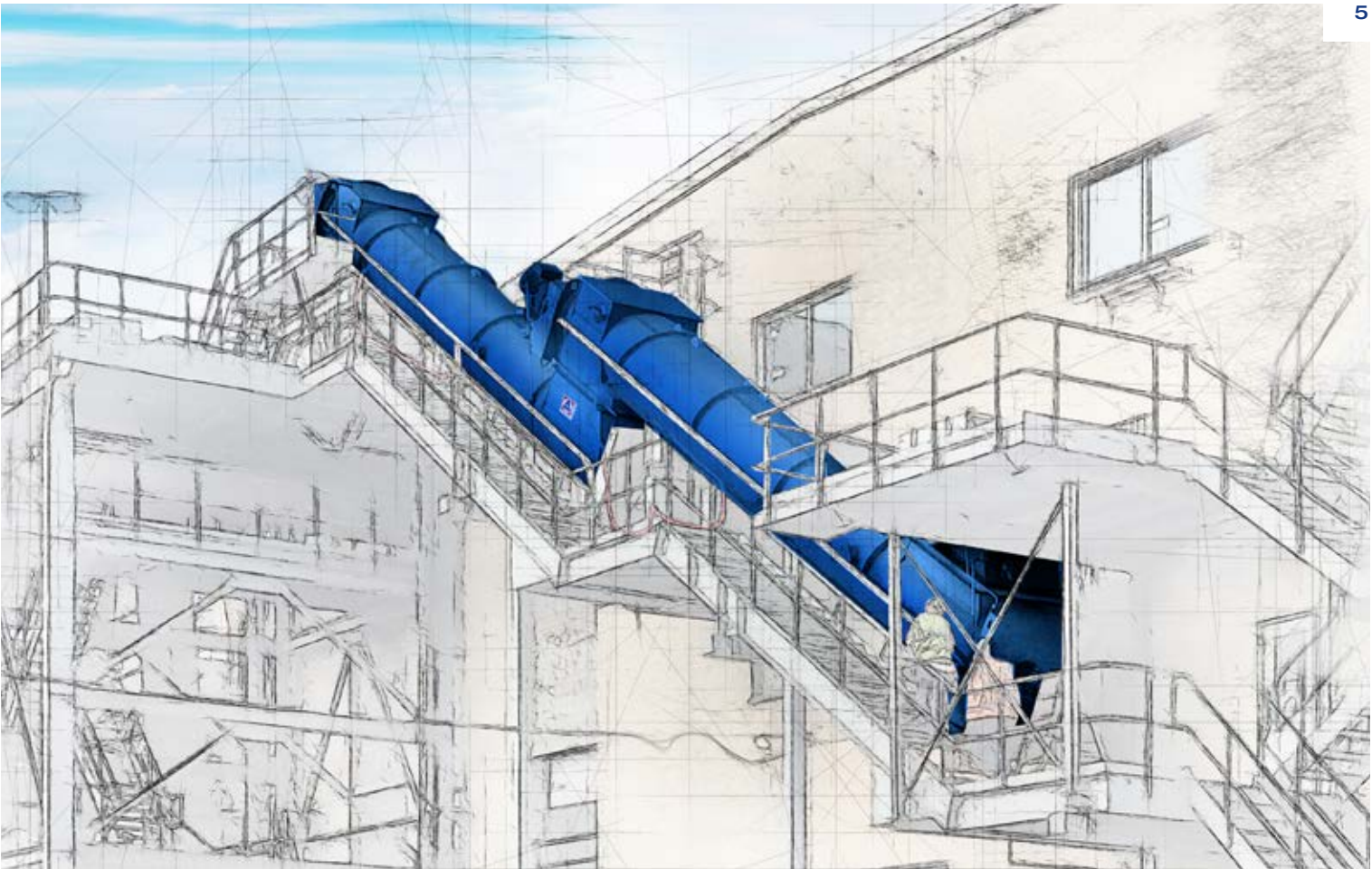
TSF 100 to TSF 1400

Technical data

Materials:	S235JR (St37) / 1.4301 / 1.4571
Trough length:	Produced in one piece up to 8,000 mm, without intermediate flange
Types of gear:	Spur gears, flat gears and bevel gears
Types of drive:	Direct drive, chain drive and coupling drive
Trough sheet thicknesses:	2 mm to 10 mm depending on the construction size
In- and outlet:	Variable in terms of shape, dimension and position
Shaft seals:	Packing gland, seal insert
Screw diameter:	100 mm to 1,400 mm, larger diameters on request
Screw blade thickness:	2 mm to 12 mm depending on the construction size
Additional options:	Protective sleeve / stowage flap / cleaning flap / displacer / overflow valve / trough foot / ATEX / blocking strips / dewatering screens / rotation speed monitoring / centre bearing / special coating / special materials / hard facing / wear shells / several in- and outlets / insulation/ mixer paddles or homogenisers / movable

Robust all-rounder for many applications for conveyance on slopes of over 30 degrees:

- Conveyance of dust, granules, powders, slurry and problematic goods
- Horizontal, inclined or vertical operation
- Available in completely dustproof, shock-resistant and gastight form
- Volume flows of up to 1,400 m³/h
- Modular structure
- Extremely flexible
- Suitable for reverse operation



Pipe screw conveyors

RSF 100 to RSF 1400

Technical data

Materials:	S235JR (St37) / 1.4301 / 1.4571
Trough length:	Produced in one piece up to 8,000 mm, without intermediate flange
Types of gear:	Spur gears, flat gears and bevel gears
Types of drive:	Direct drive, chain drive and coupling drive
Trough sheet thicknesses:	2 mm to 10 mm depending on the construction size
In- and outlet:	Variable in terms of shape, dimension and position
Shaft seals:	Packing gland, seal insert
Screw diameter:	100 mm to 1,400 mm, larger diameters on request
Screw blade thickness:	2 mm to 12 mm depending on the construction size
Additional options:	Protective sleeve / cleaning flap / trough foot / ATEX / dewatering screens / blocking strips / special coating / special materials / hard facing / rotation speed monitoring / centre bearing / wear shells / multiple inlets and outlets / mixer paddles or homogenisers

For transporting on slopes of over 30 degrees:

- Conveyance of dust, granules, powders, slurry and problematic goods on slopes of over 30 degrees
- As dosing screw conveyors for volumetric dosing of bulk materials
- Available in completely dustproof, shock-resistant and gastight form
- Volume flows of up to 1,850 m³/h
- Conveyor lengths of up to 45 m per unit
- Extremely flexible
- Suitable for reverse operation



Double screw conveyors

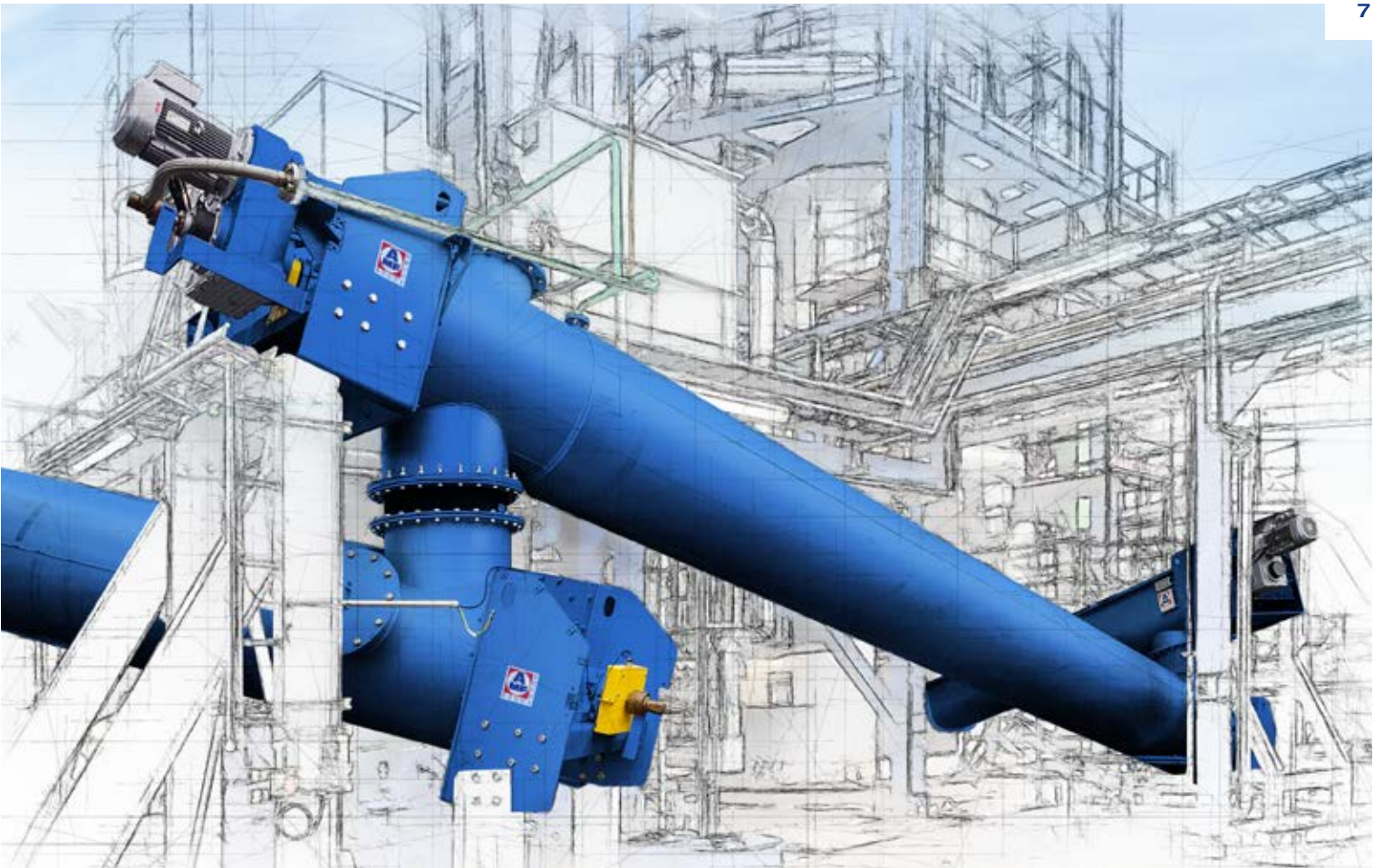
DSF 100 to DSF 1400

Technical data

Materials:	S235JR (St37) / 1.4301 / 1.4571
Trough length:	Produced in one piece up to 8,000 mm, without intermediate flange
Types of gear:	Spur gears, flat gears and bevel gears
Types of drive:	Direct drive, chain drive and coupling drive
Trough sheet thicknesses:	2 mm to 10 mm depending on the construction size
In- and outlet:	Variable in terms of shape, dimension and position
Shaft seals:	Packing gland, seal insert
Screw diameter:	100 mm to 1,400 mm, larger diameters on request
Screw blade thickness:	2 mm to 12 mm depending on the construction size
Additional options:	Protective sleeve / stowage flap / cleaning flap / trough foot / dewatering screens / ATEX / combing with 1x drive / centre bearing / displacer / overflow valve / blocking strip / rotation speed monitoring / special coating / special materials / hard facing / wear shells / multiple inlets and outlets / insulation / mixer paddles or homogenisers

Robust all-rounder for many applications with particularly high conveying capacity:

- Conveyance of dust, granules, powders, slurry and problematic goods
- High conveying power with compact design
- Horizontal, inclined or vertical operation
- Available in completely dustproof, shock-resistant and gastight form
- Volume flows of up to 2,900 m³/h
- Extremely flexible
- Suitable for reverse operation



Screw heat exchangers

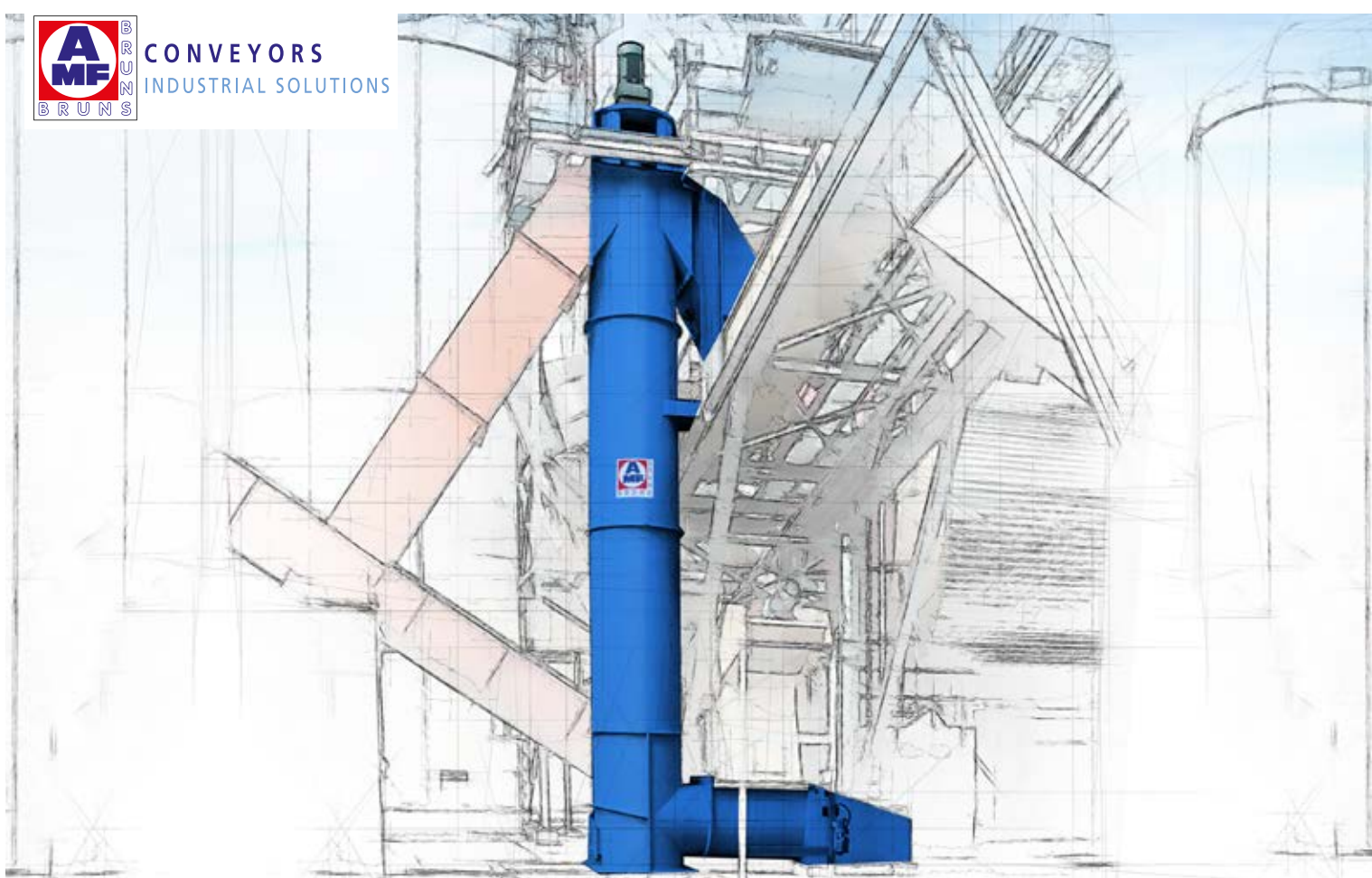
SWT 250 to SWT 800

Technical data

Materials:	S235JR (St37) / 1.4301 / 1.4571 / 1.4828
Trough shape:	Tube- or U-shaped trough
Trough length:	Max. 7,000 mm to max. 12,000 mm depending on the construction size
Types of gear:	Spur gears, flat gears and bevel gears
Types of drive:	Direct drive, chain drive and coupling drive
Trough sheet thicknesses:	2 mm to 10 mm depending on the construction size
Shaft seals:	Packing gland
Screw diameter:	250 mm to 800 mm
Screw blade thickness:	2 mm to 12 mm depending on the construction size
Additional options:	Protective sleeve / cleaning flap / trough foot / ATEX / special coating / special materials / hard facing / rotation speed monitoring / optional heat exchanger via shaft pipe, trough, blade / cooling agent according to our customers' requirements

Single and double screw heat exchangers for pressure, vacuum and high-temperature applications

- For cooling or heating viscous, corrosive or abrasive goods
- Product preheating for various processes
- Optional special functions (mixing, sealing, aeration, agglomeration and dosing)
- Conveyance and cooling of hot goods by more than 1,000 °C



Vertical screw conveyors

SRF 250 to SRF 1400

Technical data

Materials:	S235JR (St37) / 1.4301 / 1.4571
Trough:	Half shells
Types of drive:	Direct drive, coupling (flat, spur and bevel gears)
Trough length:	2,500 mm – 20,000 mm (in 200 mm steps)
Trough sheet thicknesses:	3 mm to 10 mm depending on the construction size
In- and outlet:	Variable in terms of shape, dimension and position
Shaft seal:	At the bottom packing gland, at the top integrated into compact bearing unit
Screw diameter:	250 mm to 1,400 mm
Screw blade thickness:	2 mm to 12 mm depending on the construction size
Additional options:	Protective sleeve at the bottom / cleaning flap / blocking strips / ATEX design / special materials / special coating / insulation

To transport bulk materials at a vertical orientation of 20 or more metres:

- Conveyance of dust, granules, powders, slurry and problematic goods
- High conveying power with very low space requirements
- Available in completely dustproof, shock-resistant and gastight form
- Volume flows of up to 1,400 m³/h
- Good transition from horizontal to vertical conveyance



Belt conveyors

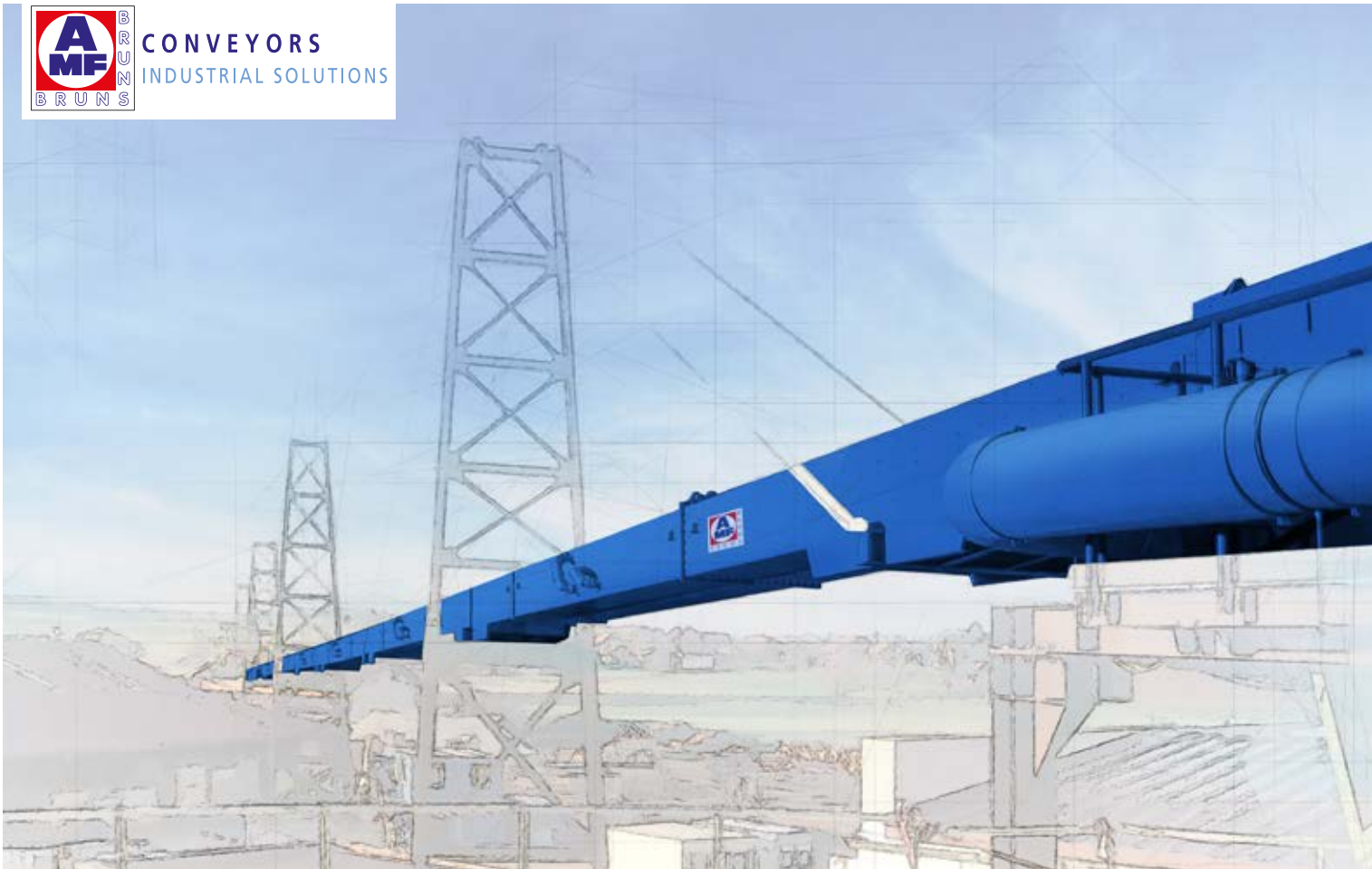
MGF 300 to MGF 2000

Technical data

Design:	Horizontal / inclined / concave / convex / reversible / movable
Materials:	S235JR (St37) / 1.4301 / vz
Types of gear:	Spur gears, flat gears and bevel gears
Types of drive:	Direct drive and coupling drive
Safety components:	Rotation speed monitoring / pull-rope emergency stop switch / off-track switch / safety guard
Accessories:	Stable, tilted plate design / lower belt cover / plough scraper of diagonal scraper / centring stations / guidance stations / lateral rollers
Material guidance:	With product guide rails and slat curtains
Shaft seals:	Seal insert
Tensioning station:	Spindle tensioning unit / weight-loaded rear tensioning point with tensioning carriage / weight-loaded Central tensioning point
Drive station:	Wiper system / cleaning brushes
Belt qualities:	Certified food-safe / heat and cold resistant / oil and grease resistant / with different liners / steel cord belts
Additional options:	ATEX / discharge trolleys / central discharge / belt scales / overbelt magnet / dust extraction nozzles / cover hoods (Organit, 1.4301, aluminium, vz) / special materials / special coating / fully enclosed / filling level indicator / movable

Delicate goods transported gently over extremely long distances:

- Conveyance of dust, granules and bulky, coarse-grained goods
- For extremely long conveying distances
- Low energy and space requirements
- Minimal wear
- Protects the transported goods
- Volume flows of up to 2,200 m³/h



Airslide conveyors

LGF

Technical data

Sizes:	From 500 mm to 1,600 mm belt width
Conveyor lengths:	Particularly effective over long distances
Cantilever length:	24 m
Conveying power:	200 m³ to 2,000 m³/h (plus 25% reserve)
Conveying speed:	1 to 4 m/s
Other:	Minimal maintenance / very gentle conveyance of materials / platforms not absolutely necessary / use of sliding belts / radial fan provides pneumatic support for upper and lower belt / split plummer block housings with rolling bearings
Additional options:	ATEX design / special cleaning system in the transfer area / optional reversible design

For gentle and dust-free transport of bulk materials over long conveying distances

- Dust-free and low-noise operation
- Low maintenance costs
- Large distances between supports can be implemented
- Belt protection thanks to optimised troughing
- Optional ATEX design
- No platforms necessary
- Optional reversible design



Sliding belt conveyors

GGF

Technical data

Sizes:	From 500 mm to 1,600 mm belt width
Conveyor lengths:	From 10 m to 40 m
Conveying power:	200 m³ to 1,400 m³/h (plus 25% reserve)
Conveying speed:	1 to 1.7 m/s
Other:	Base with plastic coating for return / elevation of the system from 0° to 10° without studded belt / elevation of the system from 11° to 25° with studded belt / use of sliding belts / split plummer block housings with roller bearings
Additional options:	ATEX design

For gentle and dust-free transport of bulk materials

- Dust-free and low-noise operation
- Low maintenance costs
- Belt protection thanks to optimised troughing
- Optional ATEX design
- No platforms necessary
- foldable floors for easy cleaning
- Optional reversible design



Trough chain conveyors with single-strand chain

TKF 200 to TKF 1000

Technical data

Design:	TKF horizontally inclining / TKF L-shape / TKF Z-shape
Materials:	S235JR (St37) / 1.4301 / 1.4571
Types of gear:	Spur gears, flat gears and bevel gears
Types of drive:	Direct drive, chain drive and coupling drive
Side panel strengths:	3 mm to 6 mm depending on the construction size
Base plate strengths:	4 mm to 8 mm depending on the construction size
Shaft seals:	Seal insert
Tensioning station:	Rotation speed monitoring / spring-tensioning unit
Drive station:	Inspection flaps / finger scrapers / filling level indicator
Chain pitches:	t=142V/t=260
Additional options:	ATEX / recirculation troughs / special attachments / chain breakage monitoring / special materials / special coating / other chains

Compact and versatile:

- High conveying power of up to 1,500 m³/h
- Conveyance of dust, granules, powders, slurry and problematic coarse-grained materials
- Low space requirement with high conveying power
- Conveying of hot conveyed goods up to 400 °C
- Examining, cooling and dosing
- Completely dustproof, pressure shock-resistant and gastight form



Drag chain conveyors with forked chain

KKF 400 to KKF 2000

Technical data

Design:	KKF horizontal / KKF L-shape / KKF Z-shape
Materials:	S235JR (St37) / 1.4301 / 1.4571
Types of gear:	Spur gears, flat gears and bevel gears
Types of drive:	Direct drive, chain drive and coupling drive
Side panel strengths:	3 mm to 6 mm depending on the construction size
Base plate strengths:	4 mm to 8 mm depending on the construction size
Shaft seals:	Seal insert
Tensioning station:	Rotation speed monitoring / spring-tensioning unit
Drive station:	Inspection flaps / finger scrapers / filling level indicator
Chain pitches:	t=142V/t=260
Additional options:	ATEX / recirculation troughs / special attachments / chain breakage monitoring / special materials / special coating / other chains

Continuous conveyor for transporting large quantities of coarse bagasse, beet pulp, wood chips or shavings:

- Conveyance of hot goods up to 400 °C
- Flexible line management, suitable for long conveying distances of up to 100 m
- Material infeed and extraction at desired positions
- High conveying power of up to 1,500 m³/h



Drag chain conveyors with link chain

KKF 400 to KKF 2200

Technical data

Design:	KKF horizontal / KKF L-shape / KKF Z-shape
Materials:	S235JR (St37) / 1.4301 / 1.4571
Types of gear:	Spur gears, flat gears and bevel gears
Types of drive:	Direct drive, chain drive and coupling drive
Side panel strengths:	3 mm to 6 mm depending on the construction size
Base plate strengths:	4 mm to 8 mm depending on the construction size
Shaft seals:	Seal insert
Tensioning station:	Rotation speed monitoring / spring-tensioning unit
Drive station:	Inspection flaps / finger scrapers / filling level indicator
Chain pitches:	t=200 comparable to DIN 8168
Additional options:	ATEX / recirculation troughs / special attachments / chain breakage monitoring / special materials / special coating / other chains

Continuous conveyor for transporting large quantities of coarse, bulky goods:

- Conveyance of hot goods up to 400 °C
- Flexible line management, suitable for long conveying distances of up to 100 m
- Material infeed and extraction at desired positions
- High conveying power of up to 1,500 m³/h



Drag chain conveyors especially for OSB systems

KKF 800 to KKF 2200 with link chain

Technical data

Design:	Horizontal/up to max. 45° inclined
Side wall materials:	S235JR (ST 37)
Base material:	S235JR (ST 37) / Hardox / plastic
Side wall strengths:	6 mm to 8 mm
Base plate strengths:	8 mm to 10 mm
Cover:	3 mm to 4 mm
Types of gear:	Spur gears / flat gears / bevel gears
Types of drive:	Applicator / chain / coupling
Shaft seals:	Seal insert
Tensioning station:	Rotation speed monitoring / spring-tensioning device
Drive station:	Inspection flap / stowage flap
Chain pitches:	T=200 comparable to DIN 8165
Additional options:	ATEX / tensioning path monitoring / feedback plate in the tensioning station

High-performance continuous conveyor for transporting large quantities of coarse ba-gasse, beet pulp, wood chips or shavings:

- Conveyance of hot goods up to 400 °C
- Flexible line management, suitable for long conveying distances of up to 100 m
- Material infeed and extraction at desired positions
- High conveying power of up to 1,500 m³/h



Bucket belt elevators

GBW 80 to GBW 1250

Technical data

Materials:	S235JR (St37) / 1.4301 / 1.4571
Types of gear:	Spur gears, flat gears and bevel gears
Types of drive:	Direct drive
Funnel bucket strengths:	2 mm to 5 mm depending on the requirement
Shaft seals:	Seal insert
Bucket conveyor foot:	Maintenance doors / inspection flaps / adjustable inflow / fixed excess troughs / rotation speed monitoring / tensioning unit
Bucket conveyor head:	Inspection flaps / off-track detectors / overflow tongue can be installed
Buckets:	DIN 15 231/DIN 15 232/DIN 15 233/DIN 15 234
Additional options:	Drive with spur gear motor and coupling / stage / ATEX design / rupture discs / suction / filling level indicators / slip monitoring / special buckets / special shafts / moving excess troughs / weigh tensioning / large construction sizes on request

Vertical conveyors for use with mass bulk materials at up to 600 m³/h

- Vertical conveying routes above 65 m
- Low space requirement
- Available in completely dustproof and gastight form
- Suitable for heavy and abrasive conveyed goods
- Low maintenance costs
- Noise-free transport that is gentle on the product



Bucket chain elevators with round link chains

KBW 160 to KBW 1000

Technical data

Materials:	S235JR (St37) / 1.4301 / 1.4571
Types of gear:	Spur gears, flat gears and bevel gears
Types of drive:	Direct drive
Funnel bucket strengths:	2 mm to 5 mm depending on the requirement
Shaft seals:	Seal insert
Bucket conveyor foot:	Maintenance doors / inspection flaps / adjustable inflow / fixed excess troughs / rotation speed monitoring / tensioning unit
Bucket conveyor head:	inspection flaps / overflow tongue can be installed
Buckets:	DIN 15 231/DIN 15 232/DIN 15 233/DIN 15 234
Additional options:	Drive with spur gear motor and coupling / stage / ATEX design / rupture discs / suction / filling level indicators / slip monitoring / special buckets / special shafts / moving excess troughs / weigh tensioning / separate non-return device / large construction sizes on request

Vertical conveyors for conveyance of hot materials up to 400 °C

- Vertical conveying routes above 65 m
- For conveyance of coarse or hot materials up to 400 °C
- Low space requirement
- Available in completely dust-proof and gastight form
- Suitable for heavy and abrasive conveyed goods
- Low maintenance costs
- Noise-free transport that is gentle on the product



Manual & electrical flat sliders with flat gears

FLS EL 180 to FLS EL 1040

Technical data

Materials:	Enclosure St37 / slide plate St37 / inlet hopper 1.4301
	Enclosure St37 / slide plate 1.4301 / inlet hopper 1.4301
	Enclosure 1.4301 / slide plate 1.4301 / inlet hopper 1.4301
Dimensions:	Slide dimensions of 180 x 180 mm to 1,040 x 1,040 mm
	Slide plate thickness of 6 mm to 8 mm
	Enclosure thickness of 4 mm to 6 mm
	Construction height of 160 mm to 180 mm
Spindle:	Tr 30x6 LH, Tr 40x7 LH
Motor:	FAZ27 DR63L4 with brake, construction type M5, FAZ27 DRS71L4 with brake, construction type M5
Max. slide plate load:	400 kg to 800 kg
Additional options:	ATEX design / with dosing system / equipment for Zone 22 / end position switch: 2 Ni12U-EM18-AP6X/3D Turck proximity switches
Surface treatment:	DIN EN ISO 12944-5 according to datasheet C2 or C3, RAL 1015/5010/6011/7035/9001 silk gloss
Man. drive options:	Hand wheel, chain hoist

Note: For sliders under bunkers, silos etc., the drive power must be checked!

An extra dose of innovation with manual and electrical operation

- For cutting off conveying distances
- Manual and electrical operation
- Sliders with lengths / widths of up to 1,040 mm
- Sliders with heights of up to 180 mm
- Motors with up to 0.55 kW of output per item
- Also available as adjustable flat sliders for dosing

Pneumatic flat sliders activated

FLS PNE 180 to FLS PNE 1040

Technical data

Materials:	Enclosure St37 / slide plate St37 / inlet hopper 1.4301
	Enclosure St37 / slide plate 1.4301 / inlet hopper 1.4301
	Enclosure 1.4301 / slide plate 1.4301 / inlet hopper 1.4301
Dimensions:	Slide dimensions of 180 x 180 mm to 1,040 x 1,040 mm
	Slide plate thickness of 6 mm to 8 mm
	Enclosure thickness of 4 mm to 6 mm
	Construction height of 160 mm to 180 mm
Cylinder piston ø/stroke:	80 mm – 160 mm/200 – 1,250 mm
Max. slide plate load:	300 kg to 1,100 kg
Additional options:	ATEX design / with dosing system / equipment for Zone 22 / position detectors: 2 Ni12U-EM18-AP6X/3D Turck proximity switches
Surface treatment:	DIN EN ISO 12944-5 according to datasheet C2 or C3, RAL 1015/5010/6011/7035/9001 silk gloss

Note: For sliders under bunkers, silos etc., the drive power must be checked!

An extra dose of innovation with pneumatic operation

- For cutting off conveying distances
- Pneumatic operation
- Sliders with lengths / widths of up to 1,040 mm
- Sliders with heights of up to 180 mm
- Cylinder with up to 1,030 mm stroke
- Also available as adjustable flat sliders for dosing



Chain conveyors

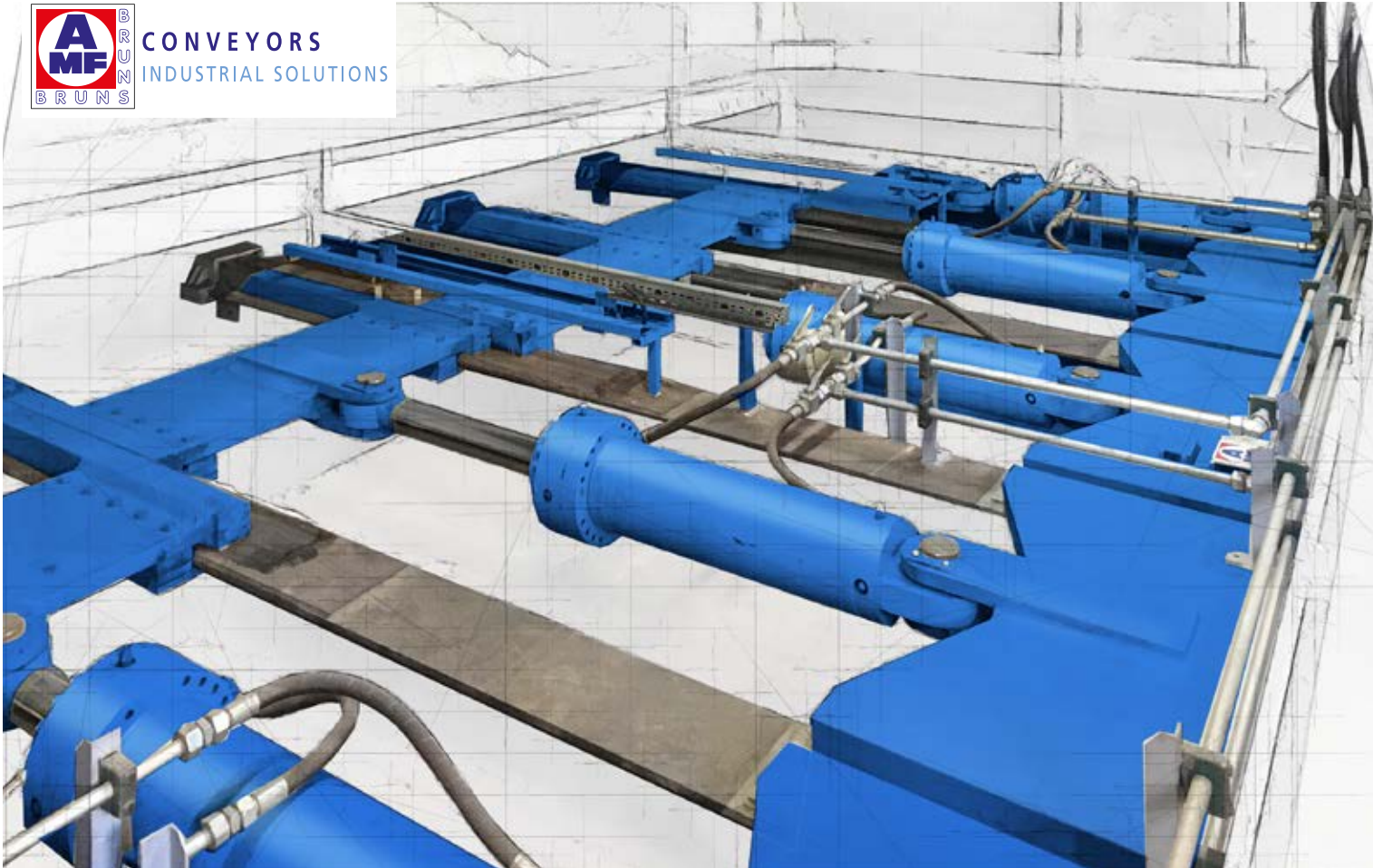
KGB 150m³ to KGB 600m³

Technical data

Internal width:	3,300 mm
Internal height:	Useful 3,650 mm
Types of drive:	Individually powered stripper rollers / separately powered cleaning brush
Volumes:	From 150 m ³ to 600 m ³
Conveying power:	600 m ³ per hour
Other:	All bearings are heavy-duty FAG/SKF floating roller type in split pillow blocks / rear wall designed as a door, so that reverse operation for emergency emptying is possible / precise batching with frequency-controlled conveyor chain drive / filling level sensors on request
Additional options:	Insulated side walls and roof

**Converts
non-continuous
conveying processes
into continuous
conveying processes**

- Modular, screwed structure, hence: Any length of up to 50 m (in partial lengths of 1,950 mm)
- Length can be modified subsequently / assembly at site
- The bunker roof is fully accessible
- Stripper rollers with side deflectors relieve the seal – the material is always conveyed towards the middle; a sawtooth blade is not necessary



Push and pull floors

SUB

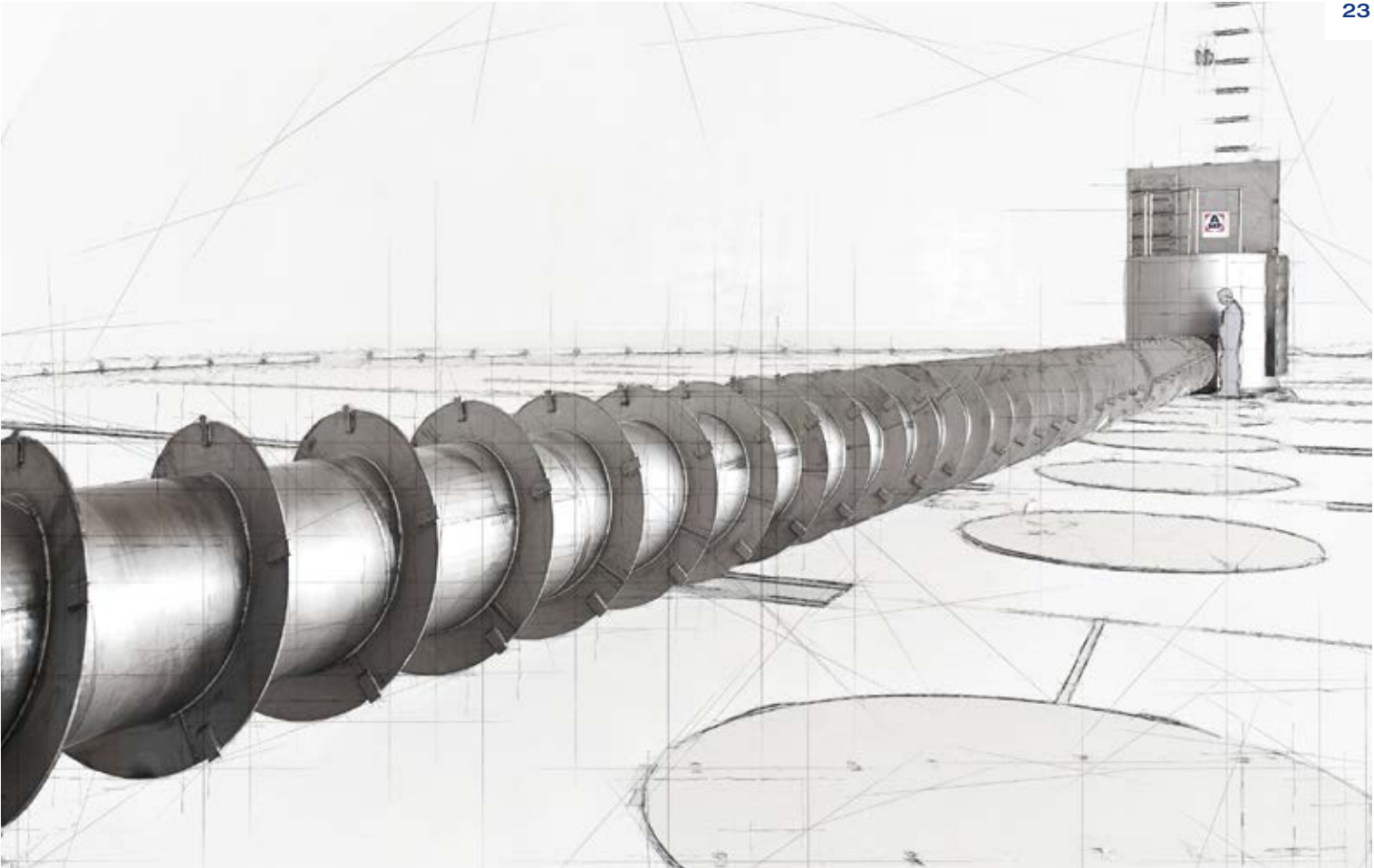
Technical data

Designs:	2 ladders supplied via hydraulic pump (system design), double-beam ladder design (H design)
Ladder width:	1.5 m
Ladder lengths:	to 22 m
Stroke length:	700 mm to 1,000 mm depending on the product to be conveyed
Conveying speeds:	0.6 m to 0.8 m/min for highly abrasive material (e.g. recycled material) 0.9 m to 1.3 m/min for moderately abrasive material (e.g. wood chippings) 1.4 m to 1.9 m/min for mildly abrasive material (e.g. sawdust)

For intermediate storage and metered dispensing in the production process

- Typical products conveyed: wood chips, sawdust, shavings, recycled wood, bark
- Intermediate storage of large product quantities
- Metered extraction of the material
- Robust design

Note: The conveying power is to be determined for each application, depending on the passage height, the number of ladders and the conveying speeds



Silo systems

Technical data

Silo-supplying system:	Gravimetric tube distributor, rotary head tube distributor, rotary belt
Residual emptying auger:	Discharge capacity: 50 t/h to 160 t/h Screw diameter: 900 mm to 1,400 mm Sizes: For silo diameters of up to 55 m
Silo emptying:	By using manual or electrically operated dosing auger conveyors in the silo base

Constant, uniform material flow

- Primarily gravimetric emptying
- Stored goods not contaminated by lubricants or mechanical parts inside the silo
- Optimum use of the silo volume in combination with an AMF supply system
- Good mixing of the discharge in combination with an AMF supply system
- Use of manual or electrically operated dosing screw conveyors
- Precise adjustment of the discharge capacity
- Silo is accessed via the central dome, ruling out contamination from outside
- Only a narrow silo base is needed for installation of the conveyor technology
- Easy cleaning of the parts



Discharge screw conveyors with bunker outlet SAB

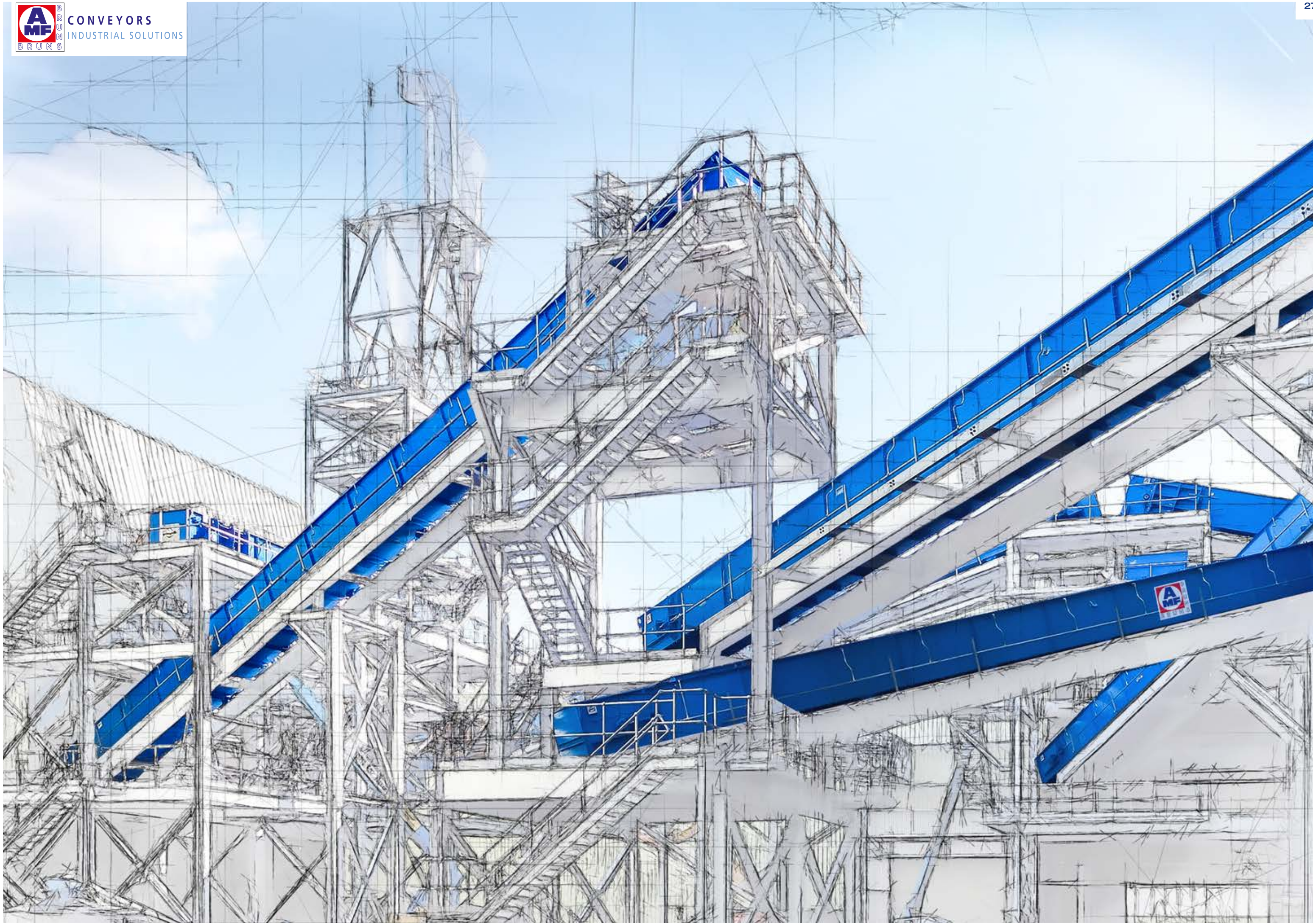
Technical data

Designs:	Discharge via worm shafts Individually adapted to the spatial conditions and discharge capacities
Internal width:	To 6,000 mm
Internal height:	To 12,000 mm
Types of drive:	Individually powered and controllable discharge augers
Volumes:	From 200 m³ to 300 m³
Conveying power:	300 m³/h
Discharge capacities:	From 57 m³/h to 300 m³/h – variable control
Other:	All bearings are heavy-duty FAG/SKF floating roller type in split pillow blocks / precise batching with frequency-controlled drive
Additional options:	Filling level monitoring / bunker weighing / discharge shafts / insulated side walls and roof

For intermediate storage and for converting intermittent processes into continuous processes

- For use with sugarbeet, pressed and dry pulp
- Bunkers from 30 m³ to 300 m³
- 3 to 9 shafts
- Ø 400 mm to 630 mm
- Consistent discharge, variable control
- Product can be weighed







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