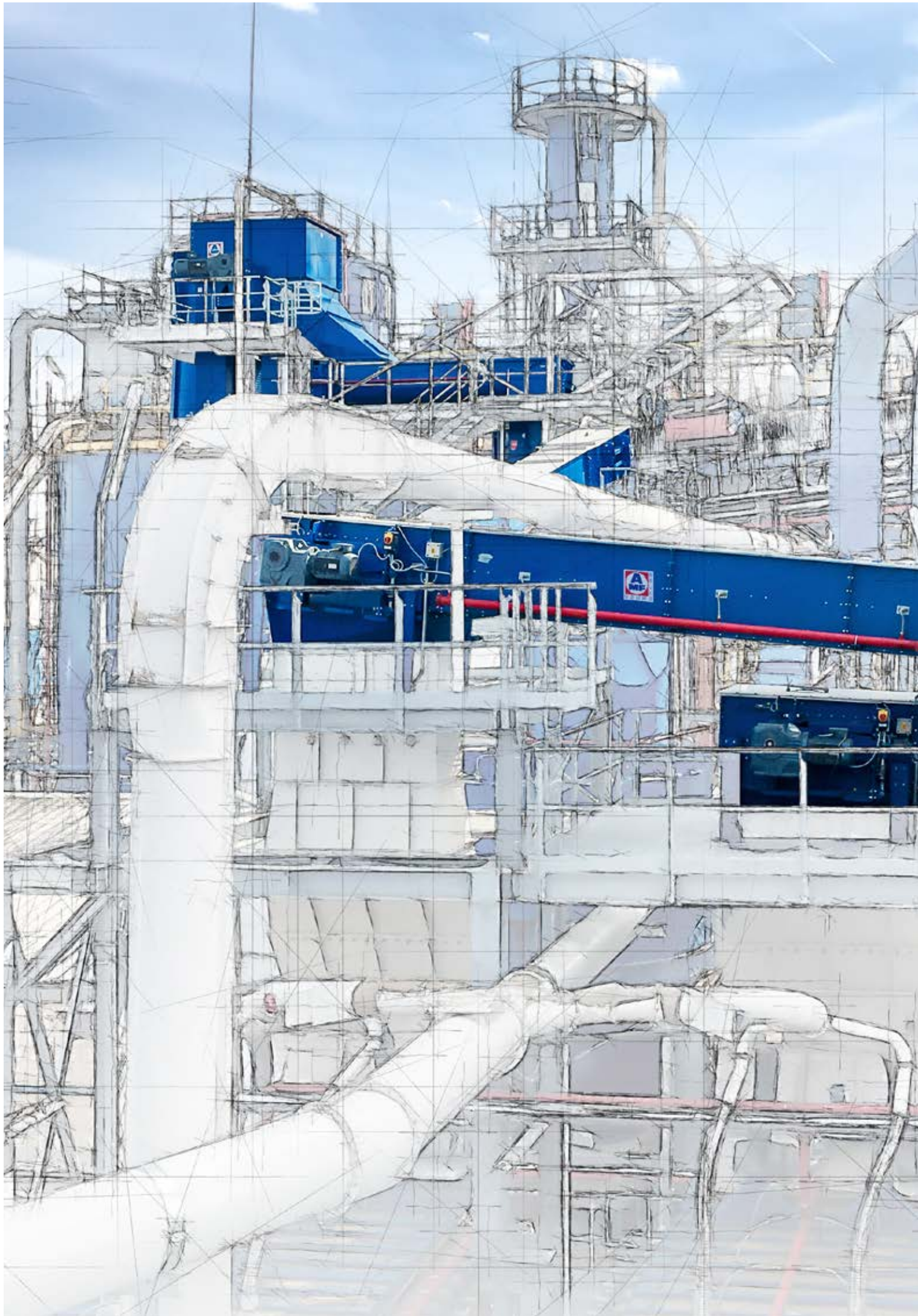


Conveyor systems product overview

Technical data



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Trough screw conveyors

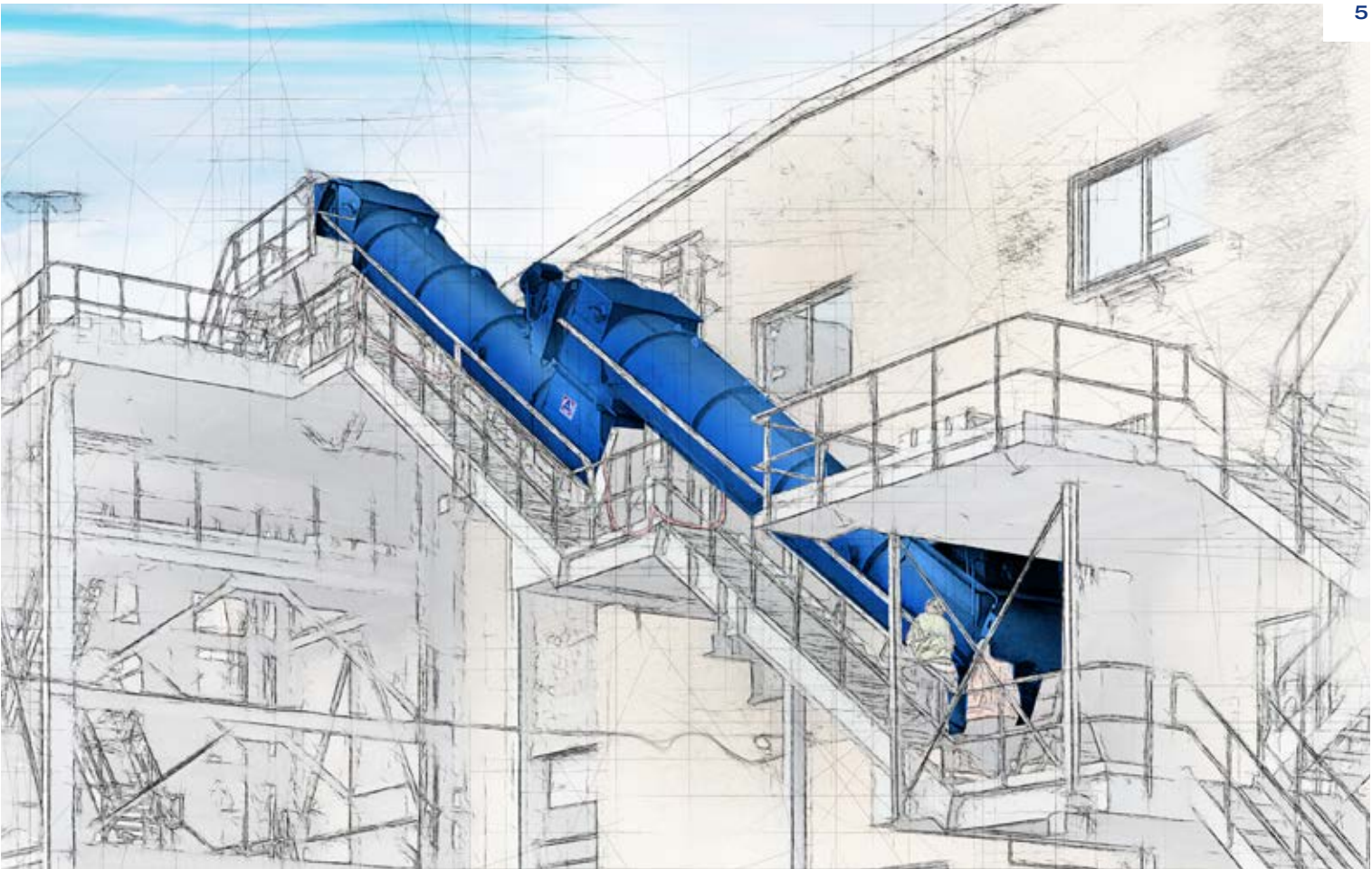
TSF 100 to TSF 1400

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

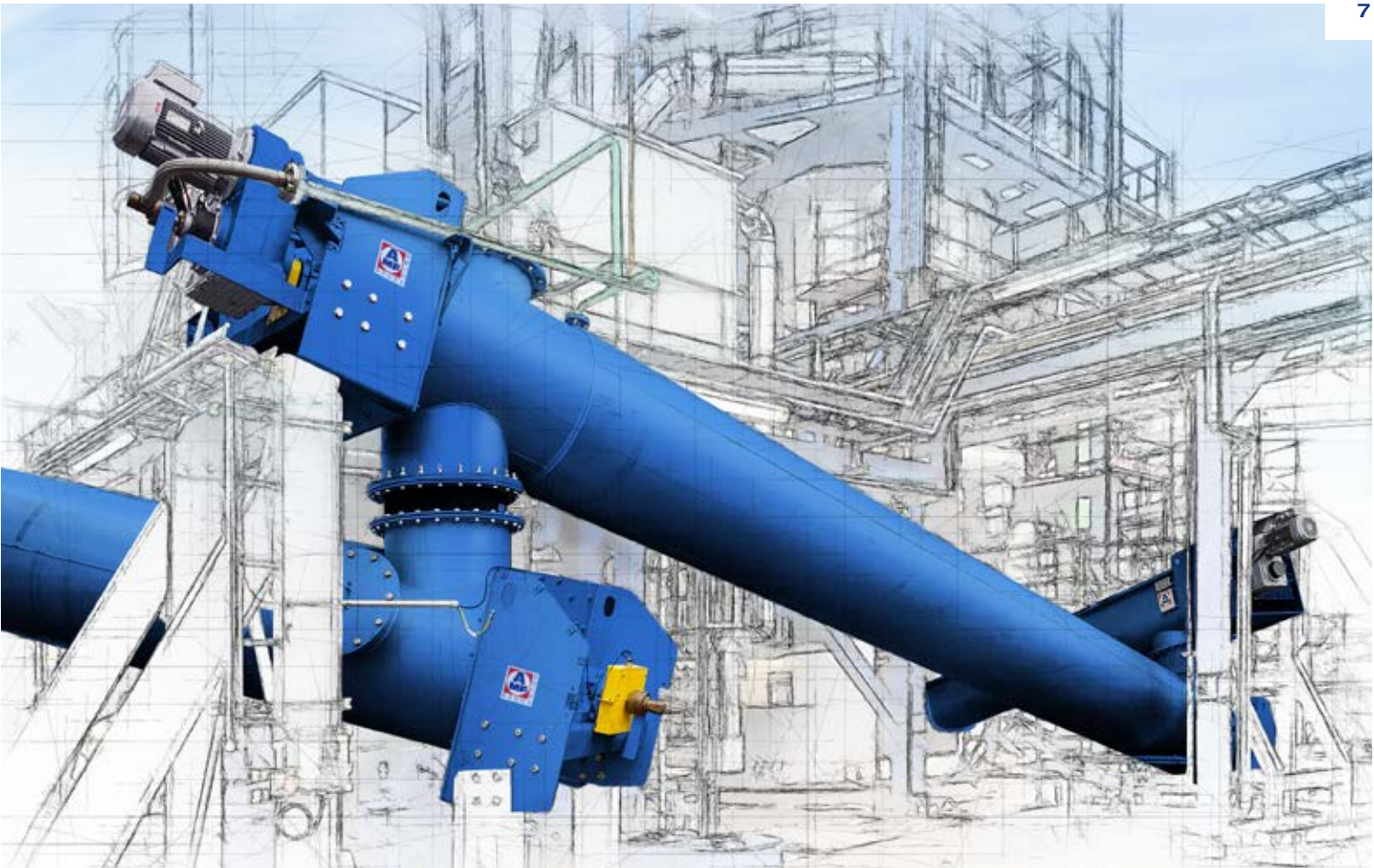
DSF 100 to DSF 1400

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

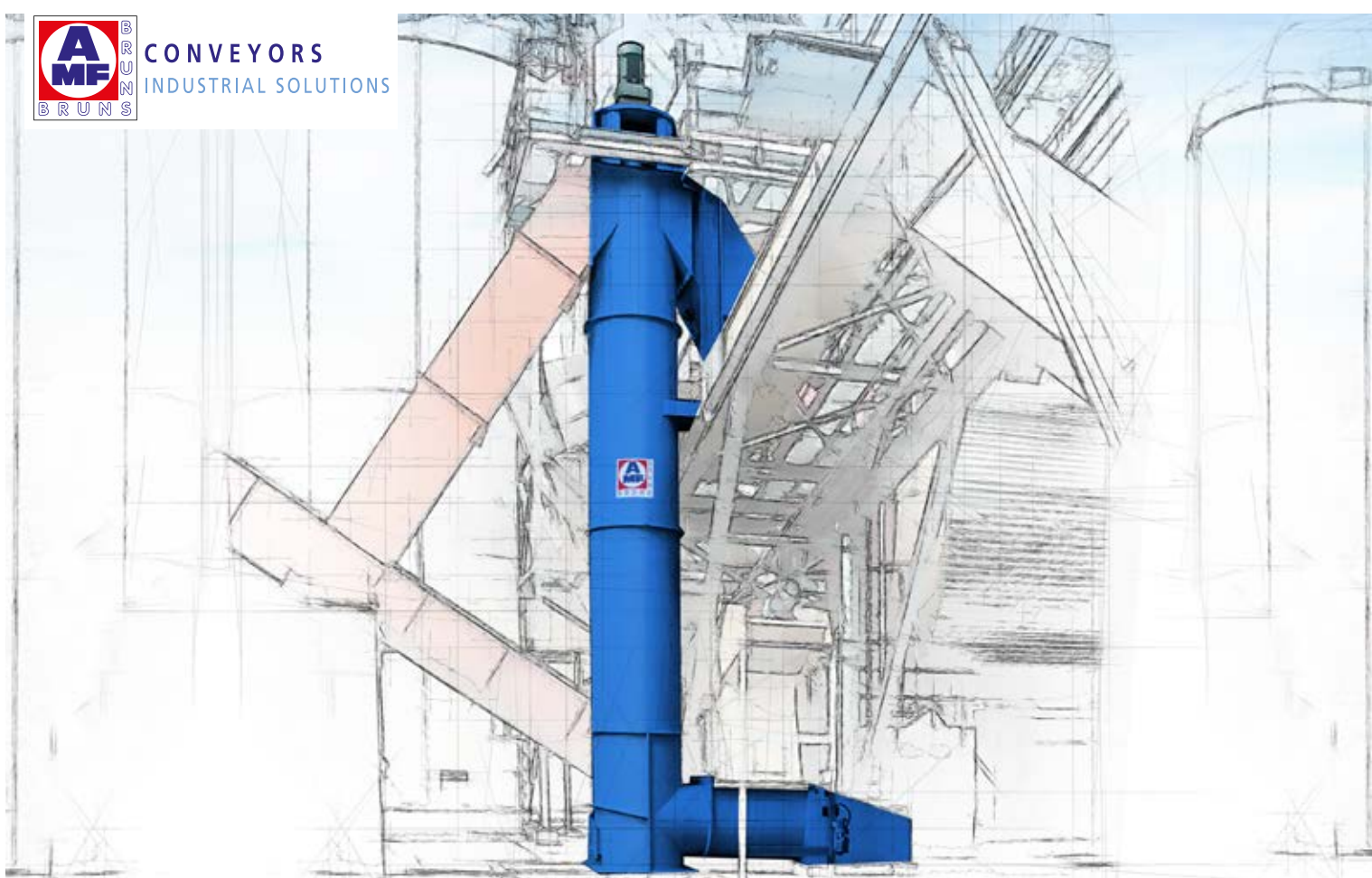
SWT 250 to SWT 800

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

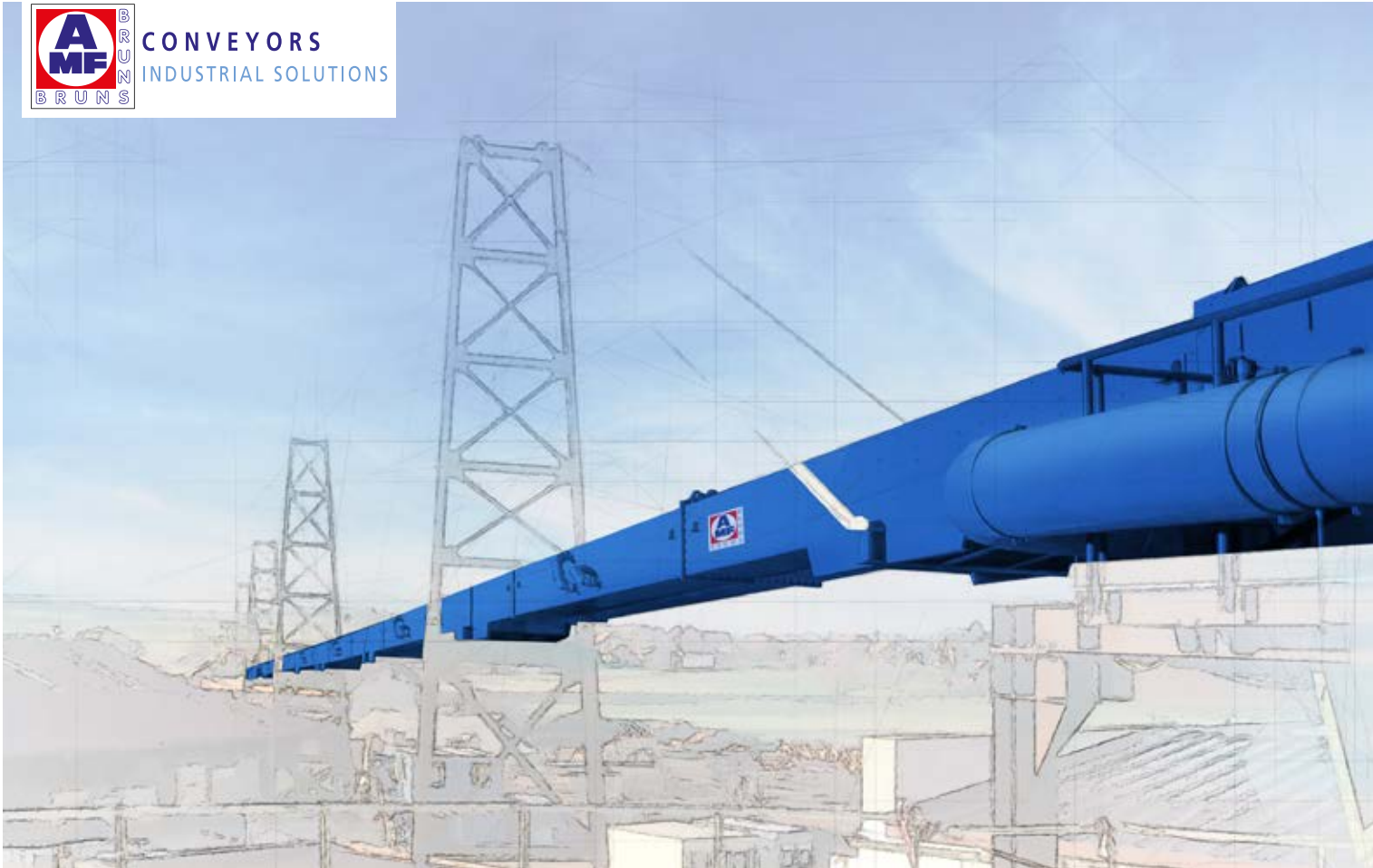
MGF 300 to MGF 2000

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!



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

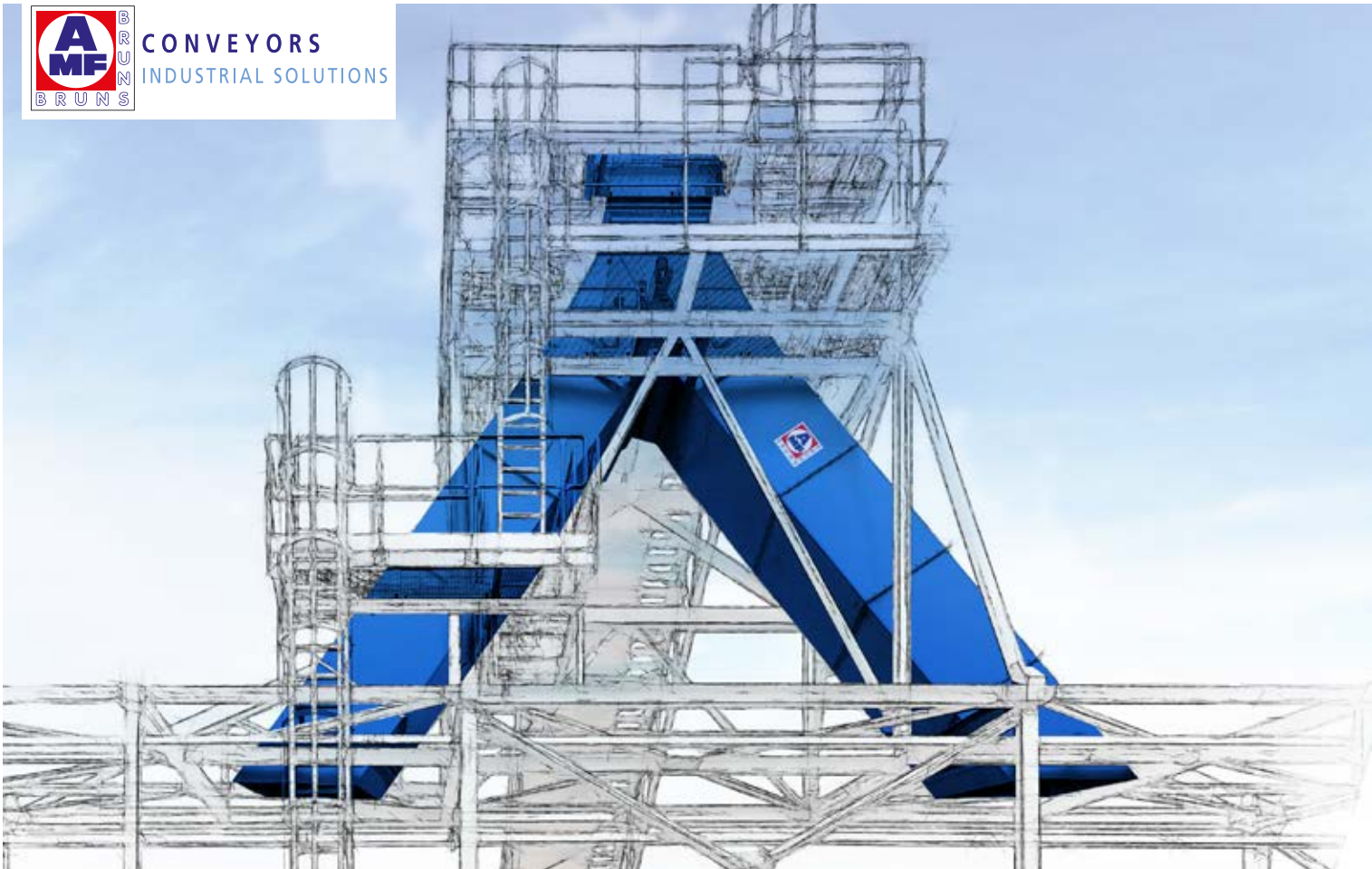
Note: For sliders under bunkers, silos etc., the drive power must be checked!

An extra dose of innovation with 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

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



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

Technical data

Designs:	2-way and 3-way version / symmetric and asymmetric
Types of drive:	Pneumatic, electrical, manual
Exit angle:	Standard 30°, others possible
Side wall strengths:	6 mm to 8 mm
Standard sizes:	180 mm x 180 mm up to 1,450 mm x 1,450 mm (adapted to AMF conveyor systems), special sizes up to 2,000 mm x 2,000 mm possible without problems

Distribution of targeted goods in two or possibly three different conveying directions

- For distributing products along various conveyance paths
- Guarantees maximum process safety
- Heat-resistant material
- Adjustable for the distribution of product flows



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 m³ to 600 m³
Conveying power:	600 m³ 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

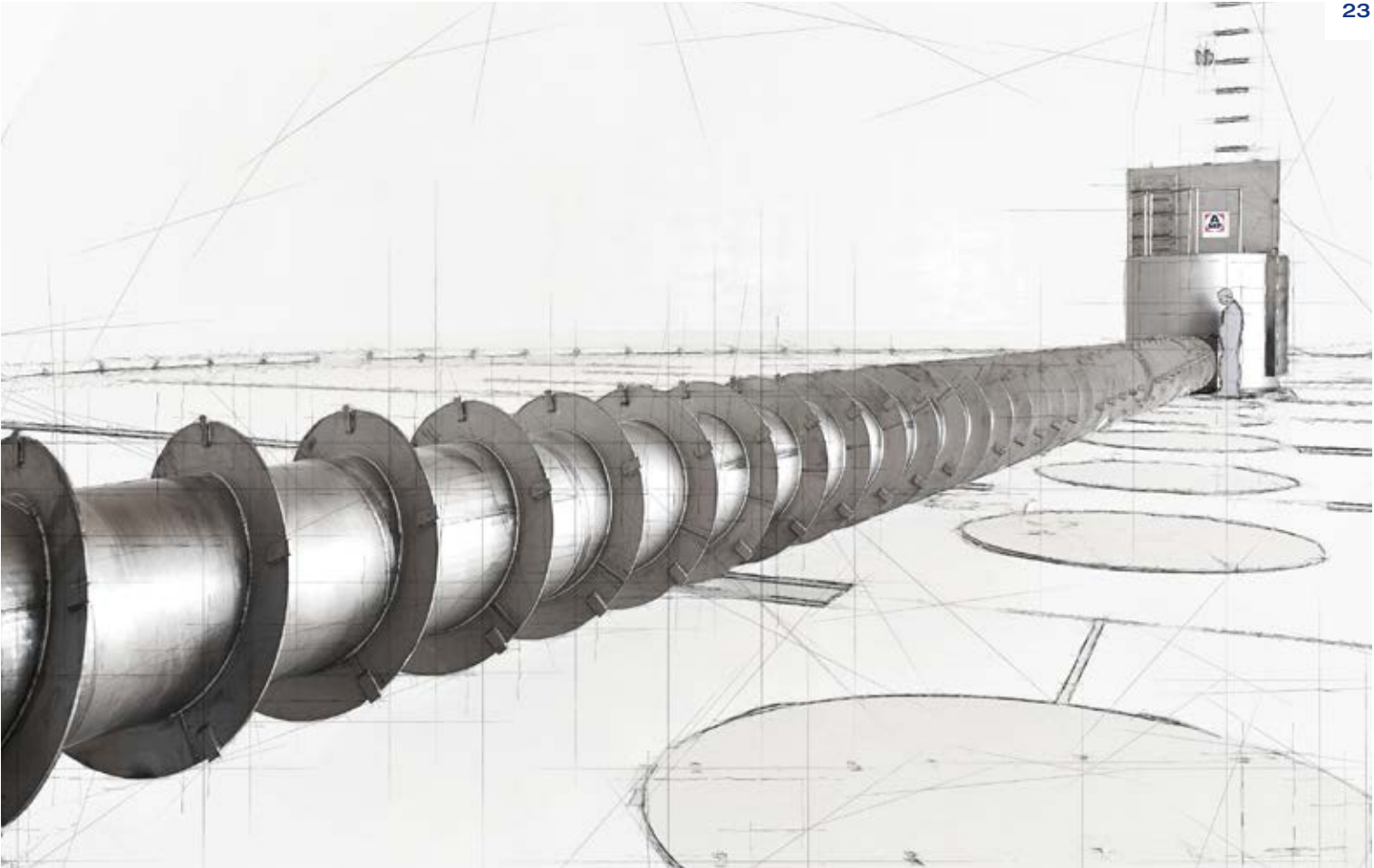
Technical data

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

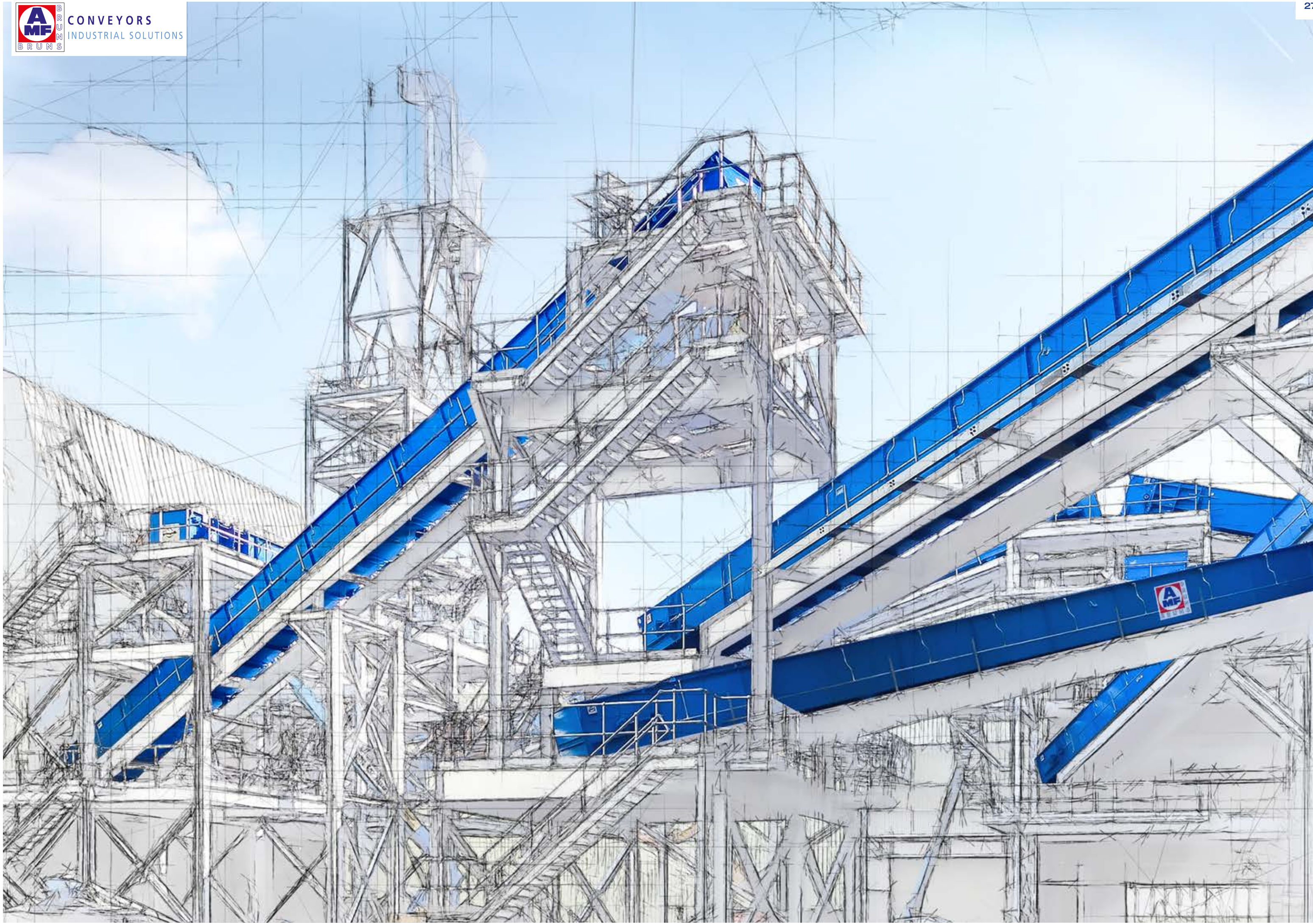
Technical data

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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