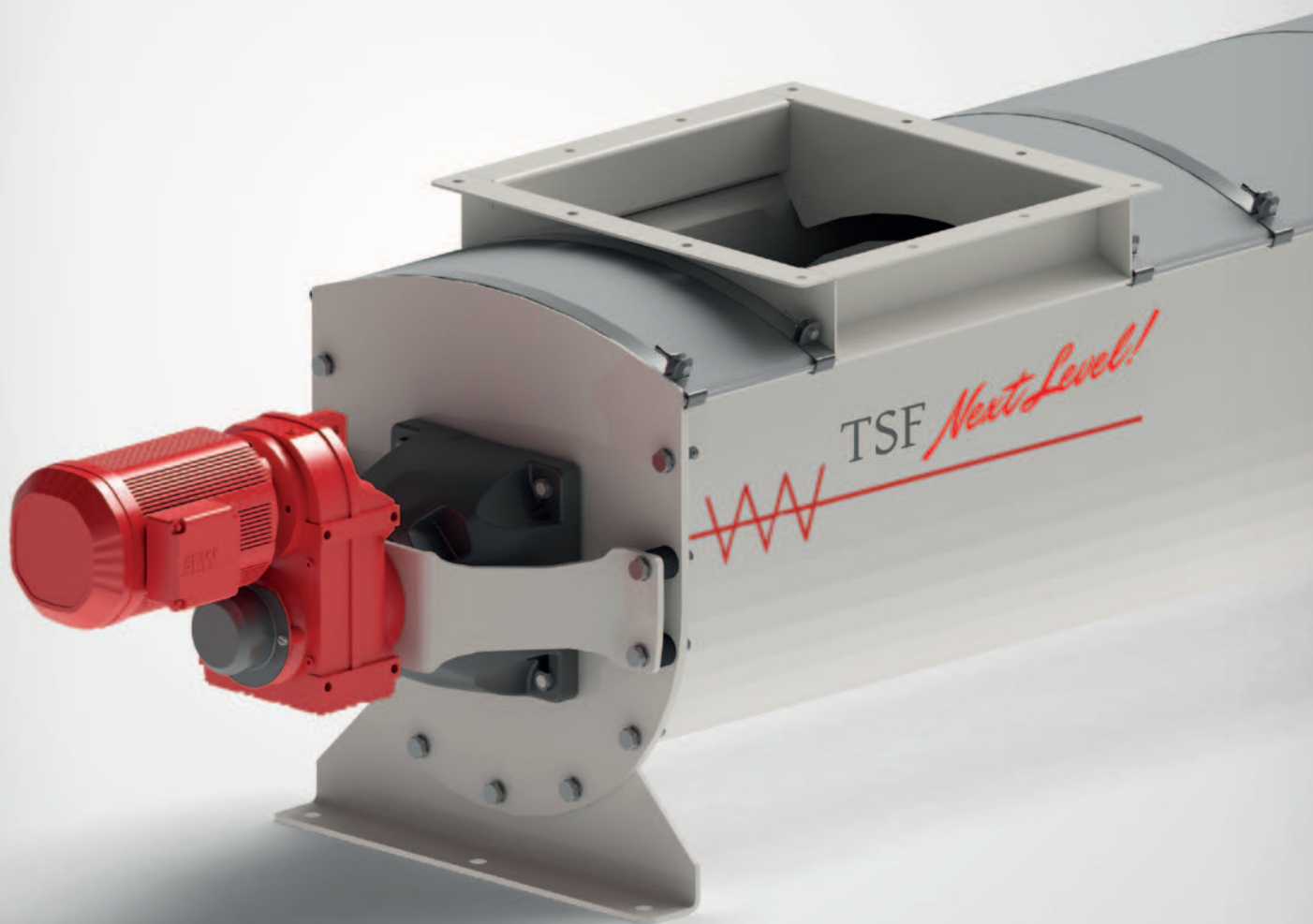


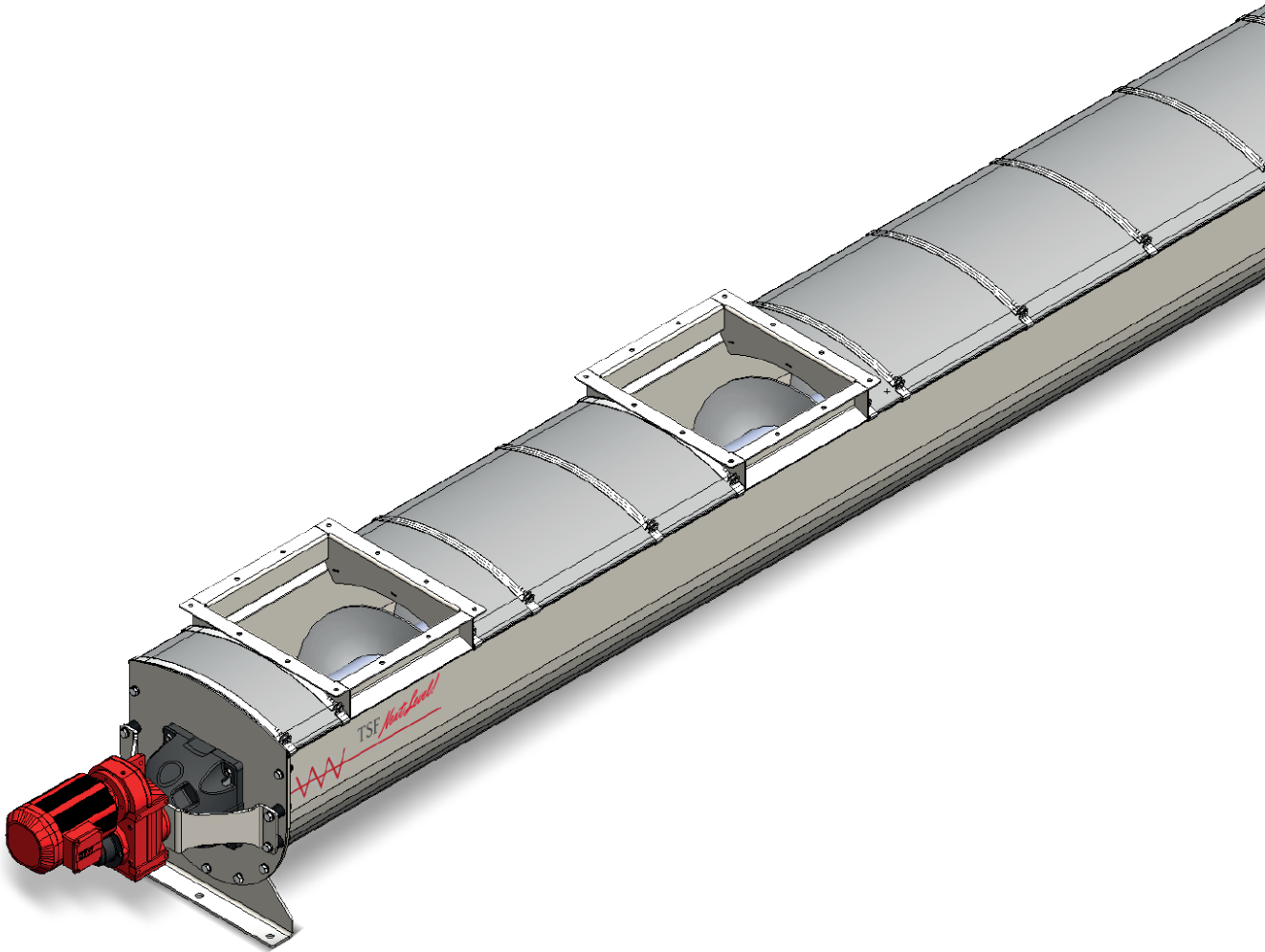
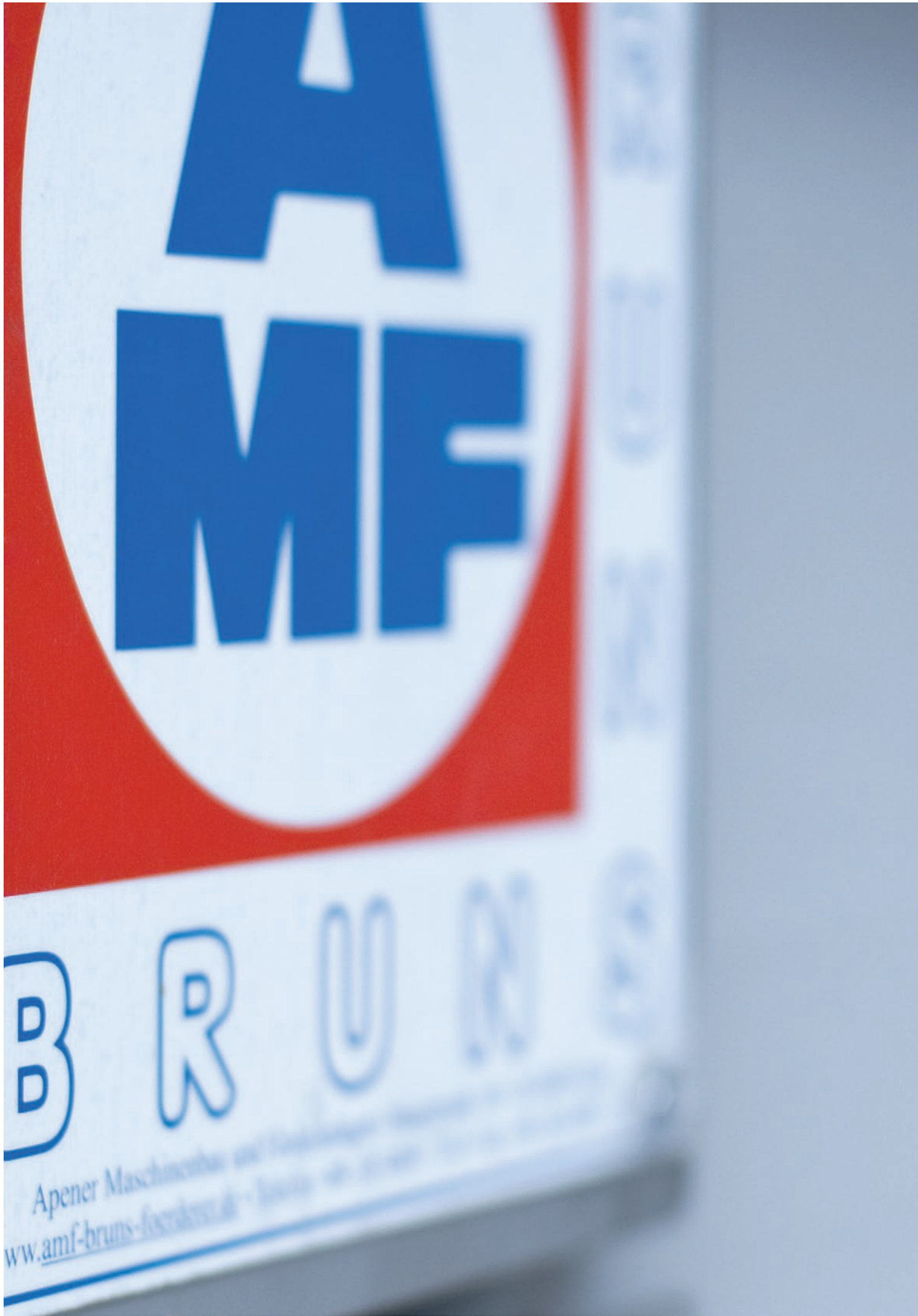
TROUGH SCREW CONVEYOR *Next Level!*

Technical Data for Trough Screw
Conveyors "Next Level!"



CONVEYORS
INDUSTRIAL SOLUTIONS

www.amf-bruns.com



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THE NEW ALTERNATIVE: THE AMF-BRUNS TROUGH SCREW CONVEYOR *Next Level!*

Screw conveyors made by AMF-Bruns are robust in design. As such, they can effortlessly handle even the tough, continuous conveyance of powdery, granular and semi-moist bulk goods. Our screw conveyors take up little space, run efficiently and require only minimal maintenance. Our **trough screw conveyors** transport materials up inclines of up to 20 degrees. The new lid offers good access to the conveying area, for example for the purposes of cleaning and maintenance.

1) Drive and shaft-hub connection

- Space-saving as no console is needed
- Drive side can be easily changed
- Expandable for future requirements
- Shaft-hub connection with SEW TorqLOC system for quick dismantling, even after extended use

2) Inlet

- Can be positioned freely along the length of the conveyor

Viewing lid

- Viewing lid over the outlet as standard

3) Plastic covers

- Can be cut to size

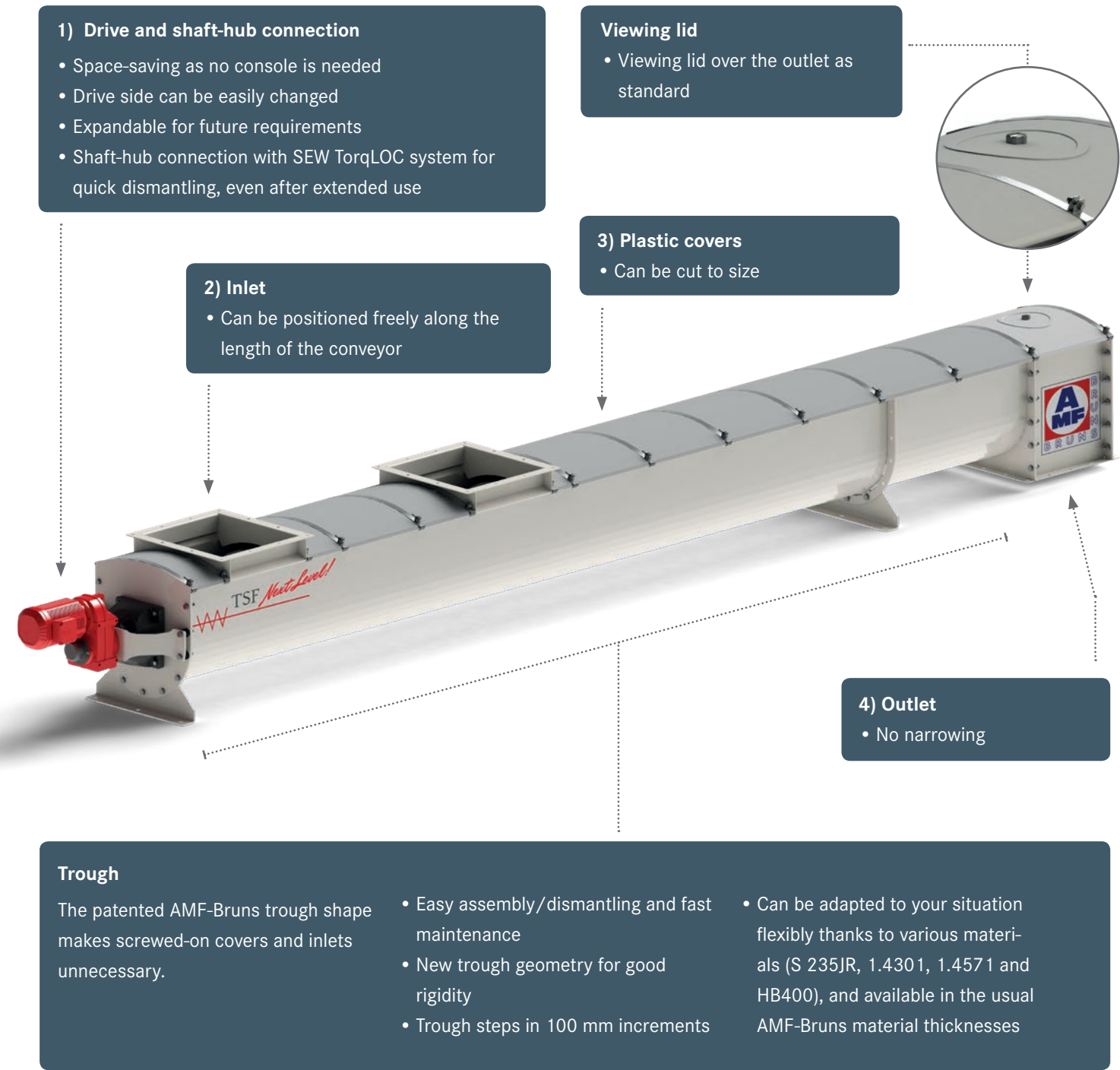
4) Outlet

- No narrowing

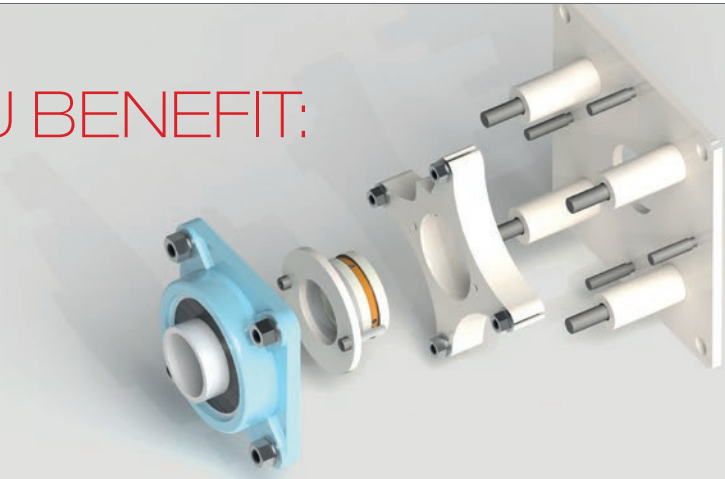
Trough

The patented AMF-Bruns trough shape makes screwed-on covers and inlets unnecessary.

- Easy assembly/dismantling and fast maintenance
- New trough geometry for good rigidity
- Trough steps in 100 mm increments
- Can be adapted to your situation flexibly thanks to various materials (S 235JR, 1.4301, 1.4571 and HB400), and available in the usual AMF-Bruns material thicknesses



HOW YOU BENEFIT:



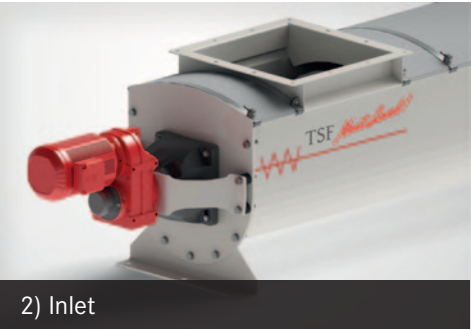
1) Drive unit and shaft-hub connection

- Space-saving as no console is needed
- Tried and tested AMF-Bruns change system => drive side and end can be swapped subsequently
- New AMF-Bruns seal set-up => Various seals ranging from rubber to braided seals and stuffing boxes can be subsequently installed or replaced

- on a unit
- Use of industrial flange bearings
- Use of SEW parallel-shaft gear motors with the tried and tested SEW TorqLOC system => easy to dismantle, even after extended use

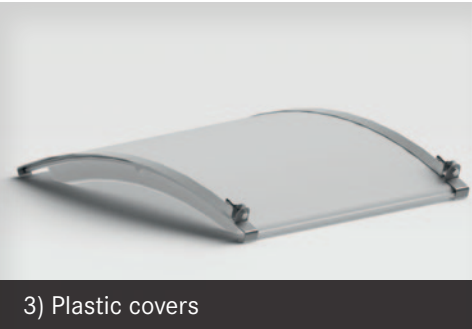
- Protective housing for bearing and seal unit
- Improved access to bearings, gaskets and packings
- Quick, damage-free drive dismantling

- Fully accessible lubrication tubes



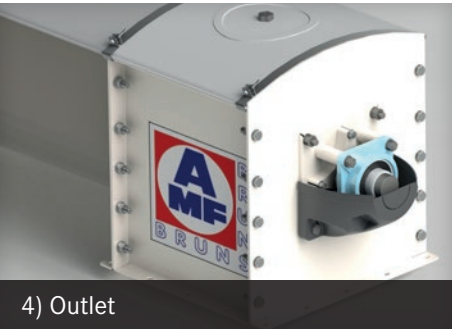
2) Inlet

- Thanks to the patented AMF-Bruns trough shape, the inlet can be repositioned in 100 mm increments without holes having to be made in the trough, reducing the time needed for set-up alterations caused by production changes
- Can be positioned freely along the length of the conveyor
- Variable number of inlets
- Can be subsequently expanded and modified



3) Plastic covers

- UV-resistant
- Non-slip
- Easier and faster maintenance due to 15% less weight than a metal cover
- Curved shape for better water drainage
- Corrosion-resistant
- Greater impermeability thanks to patented two-layer system
- Resistant to acids and alkali
- Temperature-resistant from -40°C to +80°C
- AMF-Bruns quick-close straps for easy dismantling in the event of breakdowns
- Replacement parts readily available
- Can be cut to size anywhere
- Water-resistant and dustproof
- Anti-static

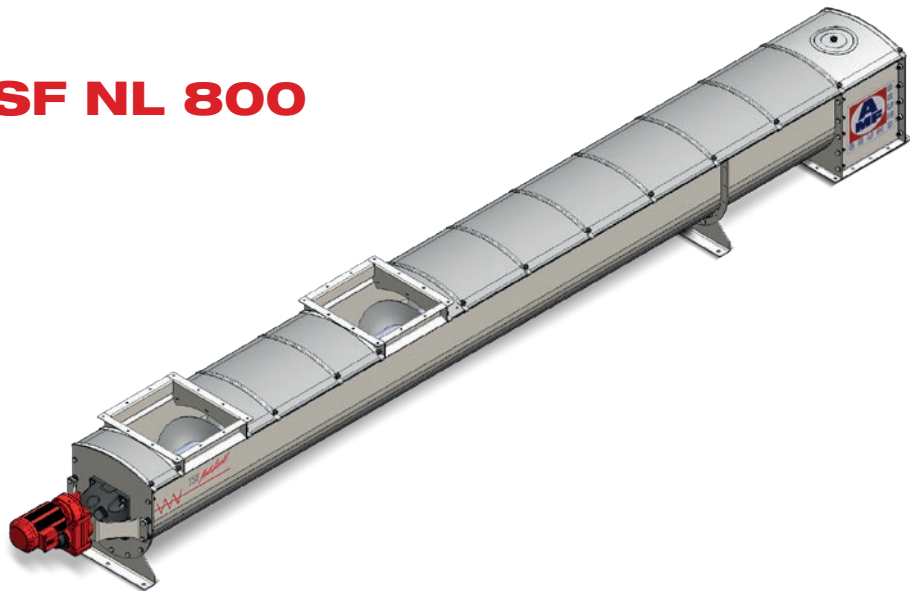


4) Outlet

- End outlet with no space for dirt
- The segmented design means new, additional outlets can be attached subsequently in the event of production changes
- No narrowing of the outlet -> reduced risk of blockages
- Viewing lid over the outlet as standard
- All covers can subsequently also be turned into

Trough Screw Conveyor

TSF NL 315 to TSF NL 800



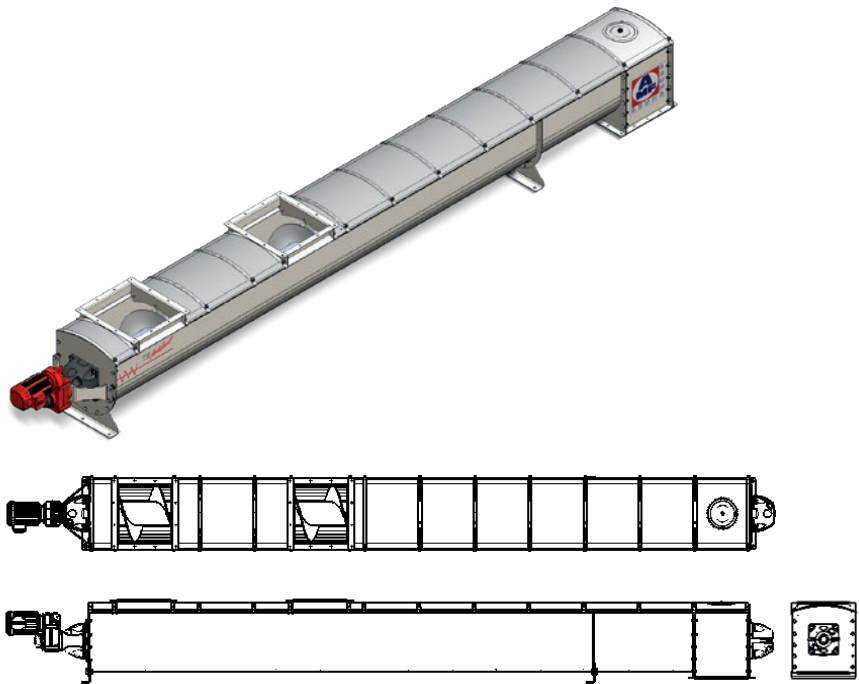
Technical Data

Trough materials:	S235 (St37-2), 1.4301 (V2A), 1.4571 (V4A-4)
Trough lenght:	Up to 8500 mm manufactured in one piece, without intermediate flange
Gear types:	Offset shaft gears
Drive types:	Direct drive
Trough plate gauge:	3 mm to 8 mm depending on size
Inlet and outlet:	Shape, size and position variable
Shaft seals:	Without/Rotary shaft seal/Braided seal packing/Stuffing box
Screw diameter:	ø 315 mm/ø 500 mm/ø 800 mm
Auger blade gauge:	5 mm to 6 mm depending on size
Additional options:	Trough feets/(ATEX)/Custom paint/Variable/progressive slope

Conveying capacity for horizontal use:			
Screw diameter	Material Class A 45 % Filling ratio	Material Class B 30 % Filling ratio	Material Class C 15 % Filling ratio
[mm]	Qm [m³/h]	Qm [m³/h]	Qm [m³/h]
315	50	18	10
500	125	80	35
800	225	200	100
Material Classes:	A: Displacement resistance K=2 Material loose and free flowing, non-abrasive (cereals, flour, oil seeds, compound feed, coal dust, plastic dust, plastic granules, etc.)	B: Displacement resistance K=3.5 Material not quite free-flowing, slightly abrasive, fine-grained to crushed or mixed (salt, sugar, gypsum, lime, sawdust, etc.)	C: Displacement resistance K=5 Material flows poorly, very abrasive, viscous, fibrous or large particles (ash, coke, ore, cement, limestone, soda, etc.)

Trough Screw Conveyor

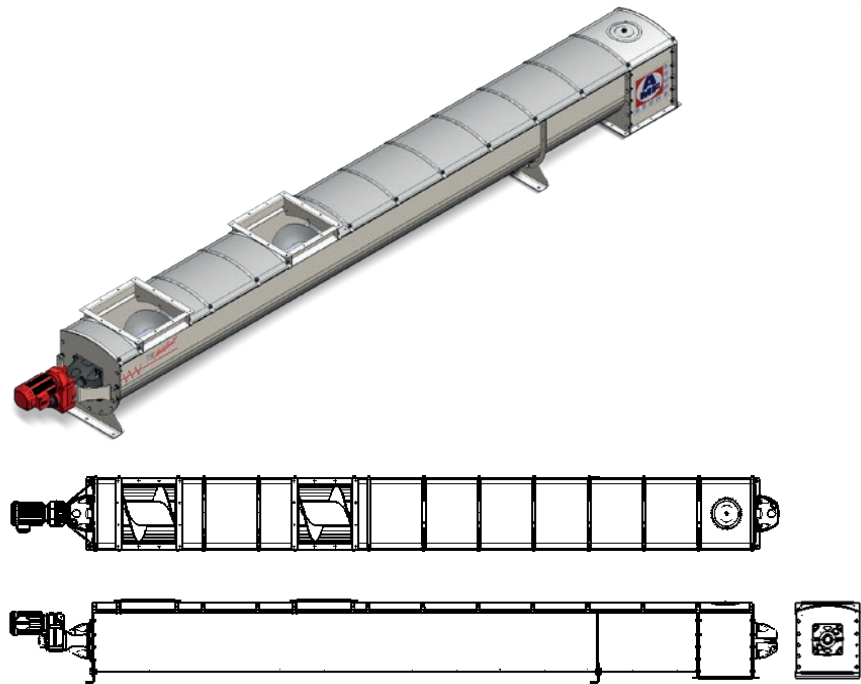
TSF NL 315



Technical Data

Trough size:	TSF NL 315
Trough plate gauges:	3 mm/4 mm/5 mm
Flange gauge:	5 mm (largest plate gauger for trough)
Trough materials:	S235 (St37-2), 1.4301 (V2A), 1.4571 (V4A-4)
Trough lenght:	2000 mm – 8500 mm (in 100 mm increments)
Auger blade:	ø 315/300 mm pitch/5mm thread blade thickness
Blade material:	S235 (St37-2), 1.4301 (V2A), 1.4571 (V4A-4), Hardox400
Gear size:	FTZ47/57/67/77/87
Bearing:	Flange bearing up to ø 65
Inlet:	315 mm x 315 mm
Auslauf:	315 mm x 315 mm
Tube sizes:	88.9 x 5 up to 3.8 m 133 x 10 up to 5.6 m 193.7 x 12.5 up to 7.7 m 219.1 x 12.5 up to 8.5 m
Show cover:	1x DN 250
RPM monitoring:	Inductive sensor 24 Volt DC 3 wire
Shaft sealing options:	Rotary shaft seal/Braided seal packing/Stuffing box
Surface finish:	Din EN ISO 12944-5 as per Data Sheet C2 , Ral 1015/7035
Additional options at extra charge:	Sleeve/Storage door/Trough foot/(ATEX)/Special paint/ Variable or progressive pitch

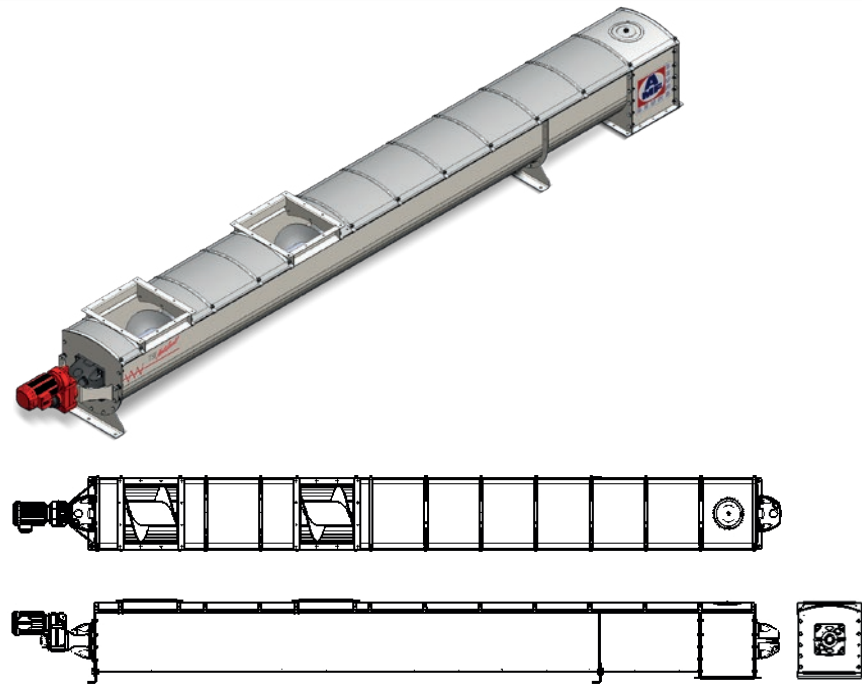
Trough Screw Conveyor
TSF NL 500



Technical Data

Trough size:	TSF NL 500
Trough plate gauges:	3 mm/4 mm/5 mm
Flange gauge:	5 mm (largest plate gauger for trough)
Trough materials:	S235 (St37-2), 1.4301 (V2A), 1.4571 (V4A-4)
Trough lenght:	2000 mm – 8500 mm (in 100 mm increments)
Auger blade:	ø 500/400 mm pitch/6mm thread blade thickness
Blade material:	S235 (St37-2), 1.4301 (V2A), 1.4571 (V4A-4), Hardox400
Gear size:	FTZ57/67/77/87/97
Bearing:	Flange bearing up to ø 75
Inlet:	500 mm x 500 mm
Auslauf:	500 mm x 500 mm
Tube sizes:	133 x 10 up to 5.1 m 193.7 x 12.5 up to 7.2 m 219.1 x 12.5 up to 8.0 m 244.5 x 12.5 up to 8.5 m
Show cover:	1x DN 300
RPM monitoring:	Inductive sensor 24 Volt DC 3 wire
Shaft sealing options:	Without/Rotary shaft seal/Braided seal packing/Stuffing box
Surface finish:	Din EN ISO 12944-5 as per Data Sheet C2 , Ral 1015/7035
Additional options at extra charge:	Sleeve/Storage door/Trough foot/(ATEX)/Special paint/ Variable or progressive pitch

Trough Screw Conveyor
TSF NL 800



Technical Data

Trough size:	TSF NL 800
Trough plate gauges:	5 mm/6 mm/8 mm
Flange gauge:	8 mm (largest plate gauger for trough)
Trough materials:	S235 (St37-2), 1.4301 (V2A), 1.4571 (V4A-4)
Trough lenght:	2500 mm – 8500 mm (in 100 mm increments)
Auger blade:	ø 800/500 mm pitch/6mm thread blade thickness
Blade material:	S235 (St37-2), 1.4301 (V2A), 1.4571 (V4A-4), Hardox400
Gear size:	FTZ77/87/97
Bearing:	Flange bearing up to ø 95
Inlet:	800 mm x 800 mm
Auslauf:	800 mm x 800 mm
Tube sizes:	219.1 x 12.5 up to 8.0 mm 244.5 x 12.5 up to 8.5 m 273 x 12.5 up to 8.5 m
Show cover:	1x DN 300
RPM monitoring:	Inductive sensor 24 Volt DC 3 wire
Shaft sealing options:	Without/Rotary shaft seal/Braided seal packing/Stuffing box
Surface finish:	Din EN ISO 12944-5 as per Data Sheet C2 , Ral 1015/7035
Additional options at extra charge:	Sleeve/Storage door/Trough foot/(ATEX)/Special paint/ Variable or progressive pitch

DISCOVER THE AMF-BRUNS SERVICE WORLD!

Reliable and powerful technology is a prerequisite for economic and efficient production. So that you can rely on your plant at any time, we deliver not only first-class technology, but also a tailor-made service portfolio. Because we want you to focus on essentials and be able to exploit the potential of your plant to the full.

This includes professional installation and personal instruction for your staff, but also an efficient maintenance and servicing plan. For further questions about our services, we are at your disposal at any time - get in touch with us!



WE ARE ALWAYS WITHIN EASY REACH

With AMF-Bruns, you are putting your trust in a partner who is always at your side to ensure long-term, safe plant operation. Take advantage of the expertise and experience of our staff. On your behalf, they watch out

for quality, ensure fast order processing and keep your budget in mind at all times. So you always get the best solution from us - safe, sustainable and economical.



FIRST-CLASS SERVICE RIGHT FROM THE START

Our aim is your satisfaction: it starts with planning but does not stop after commissioning. That's why we are constantly giving our employees technical training, to be able to provide you with optimum service in any situation. By ensuring professional installation and com-

missioning, our chief erectors, fitters and engineers ensure optimal settings of your machinery and after that are always available for advice and practical help - for instance in matters of plant optimization and maintenance.



SPARE PARTS AND MAINTENANCE

By using AMF-Bruns original parts you are always at the cutting edge of technology. Our special maintenance packages also ensure a high level of operational readiness of your plant. AMF Bruns maintains its own stock of spare parts - this way we can guarantee constant availability and speedy delivery, and remedy al-

most any technical problem without losing a great deal of time. It goes without saying that you have the full manufacturer's warranty on all our replacement parts. We will be pleased to advise you!

SERVICE HOTLINE: + 49 (0) 44 89 - 72 7100

More information is available at www.amf-foerderanlagen.de/service/ or send us an e-mail: service@amf-bruns.de

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