





Contents

Overview of trought screw conveyors	
Trough screw conveyor TSF 100 DS FA	
Trought screw conveyor 13F 100 D3 FA	
Trough screw conveyor TSF 125 DS FA	(
Trough screw conveyor TSF 160 DS FA	
Trough screw conveyor TSF 200 DS FA	8
Trough screw conveyor TSF 250 DS FA	
Trough screw conveyor TSF 315 DS FA	10
Trough screw conveyor TSF 400 DS FA	1
Trough screw conveyor TSF 500 DS FA	12
Trough screw conveyor TSF 630 DS FA	13
Trough screw conveyor TSF 800 DS FA	14
Trough screw conveyor TSF 1000 DS FA	1
Trough screw conveyor TSF 1250 DS FA	10
Trough screw conveyor TSF 1250 heavy-duty DS FA	1
Trough screw conveyor TSF 1400 DS FA	18







TSF 100 to TSF 1400

Technical Data

Materials:	S235JR (St37)/1.4301/1.4571
Trough length:	up to 8000 mm manufactured in one piece, without intermediate flange
Gear types:	Spur gears, offset shaft gears and bevel gears
Drive types:	Direct drive, chain drive or coupling drive
Trough plate gauge:	2 mm to 10 mm, depending on size
Inlet and outlet:	Shape, size and position variable
Shaft seals:	Stuffing box, Braided seal
Screw diameter:	100 mm to 1400 mm (or as per client's spec)
Auger blade gauge:	2 mm to 12 mm, depending on size (or as per client's spec)
Additional options:	Protective sleeve/Baffle plate/Cleaning flap/Displacer/Overflow valve/Trough foot/ATEX/
	Blocking trips/RPM monitoring/Centre bearing/ Custom paint/Special materials/Hard facing/
	Wear shells/multiple inlets and outlets/Insulation

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]
100	3,5	1	a. A.
125	7	3,5	1,1
160	14	6,5	2,5
200	23	11,5	4
250	42	20	6,5
315	70	35	11
400	120	57	18
500	195	90	29
630	220	140	45
800	260	225	70
1000	360	300	90
1250	o.r.	460	130
1400	o.r.	750	310
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 conveyors

TSF 100 DS FA

S235JR (St37)/1.4301/1.4571
TSF 100
1000 mm - 3500 mm (in 100 mm Increments)
2 mm/3 mm
Trough plate thickness
112 mm x 112 mm
112 mm x 112 mm
3 mm
FA27/FA37
ø 30
ø 30
1 x DN 100
44.5 x 3.2 up to screw length I = 3 m
60.3 x 5.6 up to screw length I = 3.5 m
ø 100/100 Pitch/2 thickness/rght-hd thread
4b with proximity switch Ni12U-EM18-AP6X 3D
DIN EN ISO 12944-5 as per Data Sheet C2 or C3,
RAL 1015/5010/6011/7035/9001 satin gloss
Protective sleeve/Baffle plate/Cleaning flap/Displacer/
Overflow valve/Trough foot/ATEX/Special paint



TSF 125 DS FA

Technical Data

Materials:	S235JR (St37)/1.4301/1.4571	
Trough size:	TSF 125	
Trough length:	1000 mm - 3500 mm (in 100 mm Increments)	
Trough plate gauges:	2 mm/3 mm	
Flange gauge:	Trough plate thickness	
Inlet I.W.:	140 mm x 140 mm	
Outlet I.W.:	140 mm x 140 mm	
Cover plate gauge:	3 mm	
Gear size SEW:	FA27/FA37/FA47	
Drive bearing:	ø 30	
End bearing:	ø 30	
Inspection flaps:	1 x DN 100	
Tube shaft sizes:	44.5 x 3.2 up to screw length I = 2.5 m	
	60.3 x 5.6 up to screw length I = 3.5 m	
Auger blades:	ø 125/125 Pitch/2 thickness/rght-hd thread	
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X/3D	
Surface finish:	DIN EN ISO 12944-5 as per Data Sheet C2 or C3,	
	RAL 1015/5010/6011/7035/9001 satin gloss	
Additional options at extra charge:	Protective sleeve/Baffle plate/Cleaning flap/Displacer/	
	Overflow valve/Trough foot/ATEX/Special paint	



Trough screw conveyors

TSF 160 DS FA

Materials:	S235JR (St37)/1.4301/1.4571	
Trough size:	TSF 160	
Trough length:	1000 mm - 4500 mm (in 100 mm Increments)	
Trough plate gauges:	3 mm/4 mm/5 mm	
Flange gauge:	Trough plate thickness	
Inlet I.W.:	180 mm x 180 mm	
Outlet I.W.:	180 mm x 180 mm	
Cover plate gauge:	3 mm	
Gear size SEW:	FA27/FA37/FA47	
Drive bearing:	ø 40	
End bearing:	ø 35	
Inspection flaps:	1 x DN 100	
Tube shaft sizes:	60.3 x 5.6 up to screw length I = 3 m	
	76.1 x 6.3 up to screw length I = 4 m	
	88.9 x 5 up to screw length I = 4.5 m	
Auger blades:	ø160/160 Pitch/3 thickness/rght-hd thread	
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X 3D	
Surface finish:	DIN EN ISO 12944-5 as per Data Sheet C2 or C3,	
	RAL 1015/5010/6011/7035/9001 satin gloss	
Additional options at extra charge:	Protective sleeve/Baffle plate/Cleaning flap/Displacer/	
	Overflow valve/Trough foot/ATEX/Special paint	



TSF 200 DS FA

Technical Data

Materials:	S235JR (St37)/1.4301/1.4571	
Trough size:	TSF 200	
Trough length:	1000 mm - 4500 mm (in 100 mm Increments)	
Trough plate gauges:	3 mm/4 mm/5 mm	
Flange gauge:	Trough plate thickness	
Inlet I.W.:	220 mm x 220 mm	
Outlet I.W.:	220 mm x 220 mm	
Cover plate gauge:	3 mm	
Gear size SEW:	FA47/FA57/FA67	
Drive bearing:	ø 45	
End bearing:	ø 40	
Inspection flaps:	1 x DN 200	
Tube shaft sizes:	60.3 x 5.6 up to screw length I = 3 m	
	76.1 x 6.3 up to screw length I = 3.5 m	
	88.9 x 5 up to screw length I = 4.5 m	
Auger blades:	ø 200/200v Pitch/3 thickness/rght-hd thread	
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X/3D	
Surface finish:	DIN EN ISO 12944-5 as per Data Sheet C2 or C3,	
	RAL 1015/5010/6011/7035/9001 satin gloss	
Additional options at extra charge:	Protective sleeve/Baffle plate/Cleaning flap/Displacer/	
	Overflow valve/Trough foot/ATEX/Special paint	



Trough screw conveyors

TSF 250 DS FA

Materials:	S235JR (St37)/1.4301/1.4571	
Trough size:	TSF 250	
Trough length:	1500 mm - 7000 mm (in 100 mm Increments)	
Trough plate gauges:	3 mm/4 mm/5 mm	
Flange gauge:	Trough plate thickness	
Inlet I.W.:	270 mm x 270 mm	
Outlet I.W.:	270 mm x 270 mm	
Cover plate gauge:	3 mm	
Gear size SEW:	FA57/FA67/FA77	
Drive bearing:	ø 55	
End bearing:	ø 50	
Inspection flaps:	1 x DN 100	
Tube shaft sizes:	76.1 x 6.3 up to screw length I = 3.5 m	
	133 x 10 up to screw length I = 6 m	
	159 x 10 up to screw length I = 7 m	
Auger blades:	ø 250/250 Pitch/4 thickness/rght-hd thread	
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X 3D	
Surface finish:	DIN EN ISO 12944-5 as per Data Sheet C2 or C3,	
	RAL 1015/5010/6011/7035/9001 satin gloss	
Additional options at extra charge:	Protective sleeve/Baffle plate/Cleaning flap/Displacer/	
	Overflow valve/Trough foot/ATEX/Special paint	



TSF 315 DS FA

Technical Data

Materials:	S235JR (St37)/1.4301/1.4571
Trough size:	TSF 315
Trough length:	2000 mm - 7500 mm (in 100 mm Increments)
Trough plate gauges:	3 mm/4 mm/5 mm
Flange gauge:	Trough plate thickness
Inlet I.W.:	335 mm x 335 mm
Outlet I.W.:	335 mm x 335 mm
Cover plate gauge:	3 mm
Gear size SEW:	FA67/FA77/FA87
Drive bearing:	ø 60
End bearing:	ø 60
Inspection flaps:	1 x DN 300
Tube shaft sizes:	88.9 x 5 up to screw length I = 3.5 m
	133 x 10 up to screw length I = 5.5 m
	193.7 x 12.5 up to screw length I = 7.5 m
Auger blades:	ø 315/300 Pitch/5 thickness/rght-hd thread
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X/3D
Surface finish:	DIN EN ISO 12944-5 as per Data Sheet C2 or C3,
	RAL 1015/5010/6011/7035/9001 satin gloss
Additional options at extra charge:	Protective sleeve/Baffle plate/Cleaning flap/Displacer/
	Overflow valve/Trough foot/ATEX/Special paint



Trough screw conveyors

TSF 400 DS FA

Technical Data

Materials:	S235JR (St37)/1.4301/1.4571	
Trough size:	TSF 400	
Trough length:	2000 mm - 7500 mm (in 100 mm Increments)	
Trough plate gauges:	3 mm/4 mm/5 mm	
Flange gauge:	Trough plate thickness	
Inlet I.W.:	425 mm x 425 mm	
Outlet I.W.:	425 mm x 425 mm	
Cover plate gauge:	3 mm	
Gear size SEW:	FA57/FA67/FA77	
Drive bearing:	ø 65	
End bearing:	ø 60	
Inspection flaps:	1 x DN 300	
Tube shaft sizes:	133 x 10 up to screw length I = 5 m	
	159 x 10 up to screw length I = 6.5 m	
	193.7 x 12.5 up to screw length I = 7.5 m	
Auger blades:	ø 400/350 Pitch/5 thickness/rght-hd thread	
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X 3D	
Surface finish:	DIN EN ISO 12944-5 as per Data Sheet C2 or C3,	
	RAL 1015/5010/6011/7035/9001 satin gloss	
Additional options at extra charge:	Protective sleeve/Baffle plate/Cleaning flap/Displacer/	

Overflow valve/Trough foot/ATEX/Special paint/Heavy duty bearings



TSF 500 DS FA

Technical Data

Materials:	S235JR (St37)/1.4301/1.4571
Trough size:	TSF 500
Trough length:	2500 mm - 8000 mm (in 100 mm Increments)
Trough plate gauges:	3 mm/4 mm/5 mm
Flange gauge:	Trough plate thickness
Inlet I.W.:	525 mm x 525 mm
Outlet I.W.:	525 mm x 525 mm
Cover plate gauge:	3 mm
Gear size SEW:	FA77/FA87/FA97
Drive bearing:	ø 85
End bearing:	ø 75
Inspection flaps:	1 x DN 300
Tube shaft sizes:	133 x 10 up to screw length I = 5 m
	193.7 x 12.5 up to screw length I = 7 m
	219.1 x 12.5 up to screw length I = 8 m
Auger blades:	ø 500/400 Pitch/6 thickness/rght-hd thread
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X/3D
Surface finish:	DIN EN ISO 12944-5 as per Data Sheet C2 or C3,
	RAL 1015/5010/6011/7035/9001 satin gloss
Additional options at extra charge:	Protective sleeve/Baffle plate/Cleaning flap/Displacer/
	Overflow valve/Trough foot/ATEX/Special paint/Heavy duty bearings



Trough screw conveyors

TSF 630 DS FA

Materials:	S235JR (St37)/1.4301/1.4571
Trough size:	TSF 630
Trough length:	2500 mm - 8000 mm (in 100 mm Increments)
Trough plate gauges:	4 mm/5 mm/6 mm
Flange gauge:	Trough plate thickness
Inlet I.W.:	660 mm x 660 mm
Outlet I.W.:	660 mm x 660 mm
Cover plate gauge:	3 mm
Gear size SEW:	FA77/FA87/FA97
Drive bearing:	ø 85
End bearing:	ø 75
Inspection flaps:	1 x DN 300
Tube shaft sizes:	159 x 10 up to screw length I = 5 m
	193.7 x 10 up to screw length I = 6.5 m
	244.5 x 12.5 up to screw length I = 8 m
Auger blades:	ø 630/450 Pitch/8 thickness/rght-hd thread
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X 3D
Surface finish:	DIN EN ISO 12944-5 as per Data Sheet C2 or C3,
	RAL 1015/5010/6011/7035/9001 satin gloss
Additional options at extra charge:	Protective sleeve/Baffle plate/Cleaning flap/Displacer/
	Overflow valve/Trough foot/ATEX/Special paint/Heavy duty bearings



TSF 800 DS FA

Technical Data

Materials:	S235JR (St37)/1.4301/1.4571
Trough size:	TSF 800
Trough length:	2500 mm - 8000 mm (in 100 mm Increments)
Trough plate gauges:	5 mm/6 mm/8 mm
Flange gauge:	Trough plate thickness
Inlet I.W.:	830 mm x 830 mm
Outlet I.W.:	830 mm x 830 mm
Cover plate gauge:	3 mm
Gear size SEW:	FA87/FA97/FA107
Drive bearing:	ø 100
End bearing:	ø 90
Inspection flaps:	1 x DN 300
Tube shaft sizes:	193.7 x 12.5 up to screw length I = 6 m
	244.5 x 12.5 up to screw length I = 7.5 m
	273 x 12.5 up to screw length I = 8 m
Auger blades:	ø 800/500 Pitch/10 thickness/rght-hd thread
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X/3D
Surface finish:	DIN EN ISO 12944-5 as per Data Sheet C2 or C3,
	RAL 1015/5010/6011/7035/9001 satin gloss
Additional options at extra charge:	Protective sleeve/Baffle plate/Cleaning flap/Displacer/
	Overflow valve/Trough foot/ATEX/Special paint/Heavy duty bearings



Trough screw conveyors

TSF 1000 DS FA

Materials:	S235JR (St37)/1.4301/1.4571
Trough size:	TSF 1000
Trough length:	3000 mm - 9000 mm (in 100 mm Increments)
Trough plate gauges:	5 mm/6 mm/8 mm
Flange gauge:	Trough plate thickness
Inlet I.W.:	1040 mm x 1040 mm
Outlet I.W.:	1040 mm x 1040 mm
Cover plate gauge:	3 mm
Gear size SEW:	FA97/FA107/FA127
Drive bearing:	ø 110
End bearing:	ø 100
Inspection flaps:	1 x DN 300
Tube shaft sizes:	219.1 x 12.5 up to screw length I = 6 m
	273 x 12.5 up to screw length I = 7.5 m
	323.9 x 12.5 up to screw length I = 9 m
Auger blades:	ø 1000/560 Pitch/10 thickness/rght-hd thread
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X 3D
Surface finish:	DIN EN ISO 12944-5 as per Data Sheet C2 or C3,
	RAL 1015/5010/6011/7035/9001 satin gloss
Additional options at extra charge:	Protective sleeve/Baffle plate/Cleaning flap/Displacer/
	Overflow valve/Trough foot/ATEX/Special paint/Heavy duty bearings



TSF 1250 DS FA

Technical Data

Materials:	S235JR (St37)/1.4301/1.4571
Trough size:	TSF 1250
Trough length:	3000 mm - 8500 mm (in 100 mm Increments)
Trough plate gauges:	6 mm/8 mm
Flange gauge:	Trough plate thickness
Inlet I.W.:	1290 mm x 1290 mm
Outlet I.W.:	1290 mm x 1290 mm
Cover plate gauge:	3 mm
Gear size SEW:	FA97/FA107/FA127
Drive bearing:	ø 120
End bearing:	ø 110
Inspection flaps:	1 x DN 300
Tube shaft sizes:	219.1 x 12.5 up to screw length I = 6 m
	273 x 12.5 up to screw length I = 7.5 m
	323.9 x 12.5 up to screw length I = 8.5 m
Auger blades:	ø 1250/800 Pitch/10 thickness/rght-hd thread
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X/3D
Surface finish:	DIN EN ISO 12944-5 as per Data Sheet C2 or C3,
	RAL 1015/5010/6011/7035/9001 satin gloss
Additional options at extra charge:	Protective sleeve/Baffle plate/Cleaning flap/Displacer/
	Overflow valve/Trough foot/ATEX/Special paint



Trough screw conveyors

TSF 1250 heavy-duty DS FA

Materials:	S235JR (St37)/1.4301/1.4571
Trough size:	TSF 1250 heavy-duty
Trough length:	3500 mm - 8500 mm (in 100 mm Increments)
Trough plate gauges:	6 mm/8 mm
Flange gauge:	Trough plate thickness
Inlet I.W.:	1290 mm x 1290 mm
Outlet I.W.:	1290 mm x 1290 mm
Cover plate gauge:	3 mm
Gear size SEW:	FA107/FA127/FA157
Drive bearing:	ø 130
End bearing:	ø 115
Inspection flaps:	1 x DN 300
Tube shaft sizes:	219.1 x 12.5 up to screw length I = 6 m
	273 x 12.5 up to screw length I = 7.5 m
	323.9 x 12.5 up to screw length I = 8.5 m
Auger blades:	ø 1250/800 Pitch/10 thickness/rght-hd thread
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X/3D
Surface finish:	DIN EN ISO 12944-5 as per Data Sheet C2 or C3,
	RAL 1015/5010/6011/7035/9001 satin gloss
Additional options at extra charge:	Protective sleeve/Baffle plate/Cleaning flap/Displacer/
	Overflow valve/Trough foot/ATEX/Special paint



TSF 1400 DS FA

Technical Data

Materials:	S235JR (St37)/1.4301/1.4571
Trough size:	TSF 1400
Trough length:	3500 mm - 8000 mm (in 100 mm Increments)
Trough plate gauges:	8 mm/10 mm
Flange gauge:	Trough plate thickness
Inlet I.W.:	1450 mm x 1450 mm
Outlet I.W.:	1450 mm x 1450 mm
Cover plate gauge:	3 mm
Gear size SEW:	FA107/FA127/FA157
Drive bearing:	ø 140
End bearing:	ø 125
Inspection flaps:	1 x DN 300
Tube shaft sizes:	219.1 x 12.5 up to screw length I = 5.5 m
	273 x 12.5 up to screw length I = 7 m
	323.9 x 12.5 up to screw length I = 8 m
Auger blades:	ø 1400/900 Pitch/12 thickness/rght-hd thread
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X/3D
Surface finish:	DIN EN ISO 12944-5 as per Data Sheet C2 or C3,
	RAL 1015/5010/6011/7035/9001 satin gloss
Additional options at extra charge:	Protective sleeve/Baffle plate/Cleaning flap/Displacer/
	Overflow valve/Trough foot/ATEX/Special paint

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