

Chain Conveyor.

AKR 400 & 900

Aagaard's dual chain conveyor is the preferred solution when it comes to the transport system for reliability, flexibility, silent operation and low energy consumption.

The solid modular structure provides a pressureless, dust-free material transport over both short and long distances such as from a filter to a container or silo. Operating costs are only a fraction of the price in relation to the use of transport fans, and without disturbing the surrounding environment. Typically, energy consumption is 5-20% compared to pneumatic transport

Advantages

- Low energy consumption
- Quiet
- Reliable
- Dust-free transport
- Flexible



Indicative capacity for wood shavings (m³/h)*

Inclined		0-30°	30-60°**	90° **
Max/ nominel	AKR400	90/40	90/40	30/2
	AKR 900	180/85	180/85	60/6

* Material type and behavior can have a major impact on capacity, especially when tilted. Max. capacity must never be exceeded as the top chain/scrapper pulls the material backwards, resulting in accident.

** For material that rolls backwards, middle plates or buckets can be installed to keep capacity close to nominal.

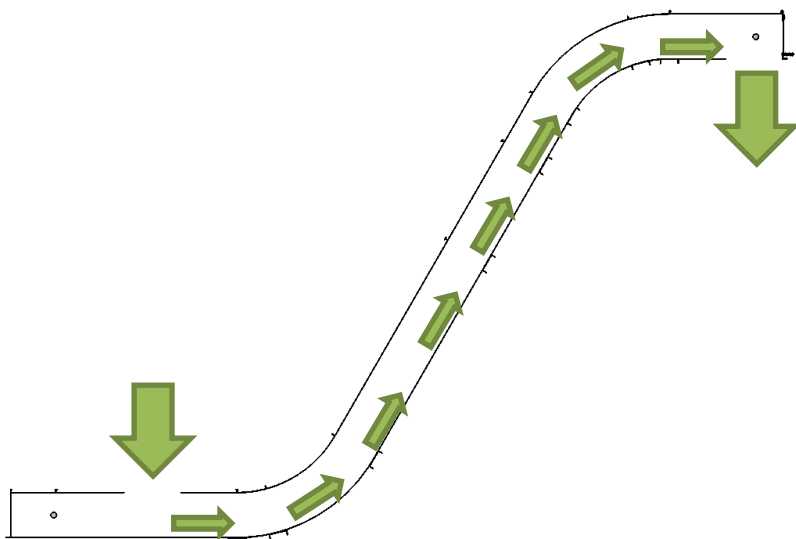
HIGH-END DUST HANDLING SOLUTIONS & SURFACE TREATMENT

FILTERS - FANS - DUCTING - SILOS - OUTFEEDERS - CONVEYERS - TRUCKLOADERS - CYCLONES - FINISHING LINES

Execution

Standard execution:

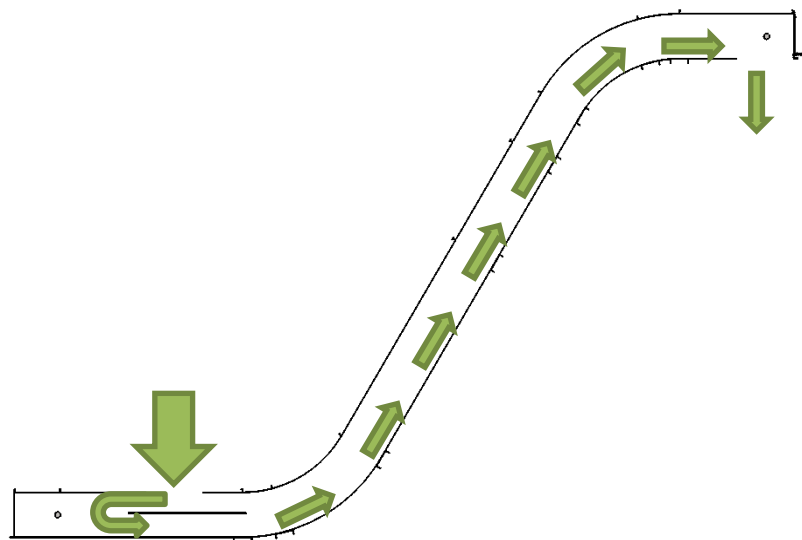
Material is dosed in the conveyor. It should be ensured that the conveyor is not overfilled as it then pulls the material backwards. More inlets possible. Capacity up to maximum.



Overflow protection:

Material is pulled backwards in the conveyor via a middle plate in the inlet section. This ensures against overflow e.g. from a buffer/silo. Maximum one inlet.

Capacity up to nominal.

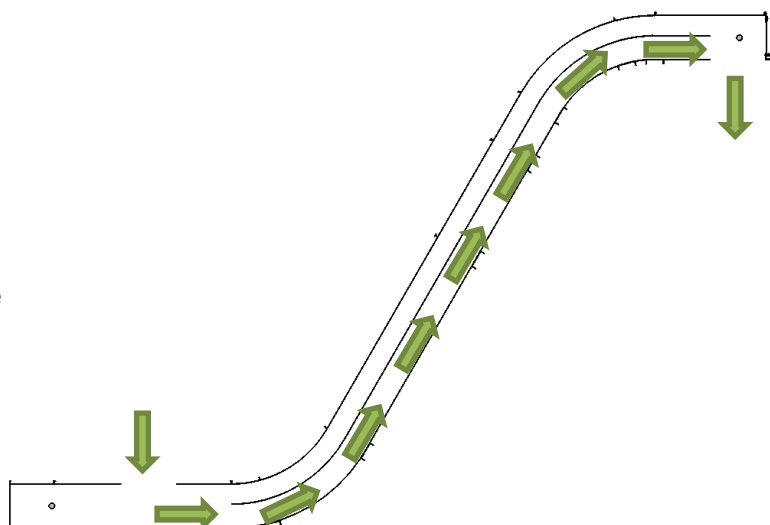


Backflow protection:

Used for material that can roll backwards at inclination. Middle plates are inserted before the bend and throughout the course of the climb.

Capacity up to nominal.

Ex-relief not possible.

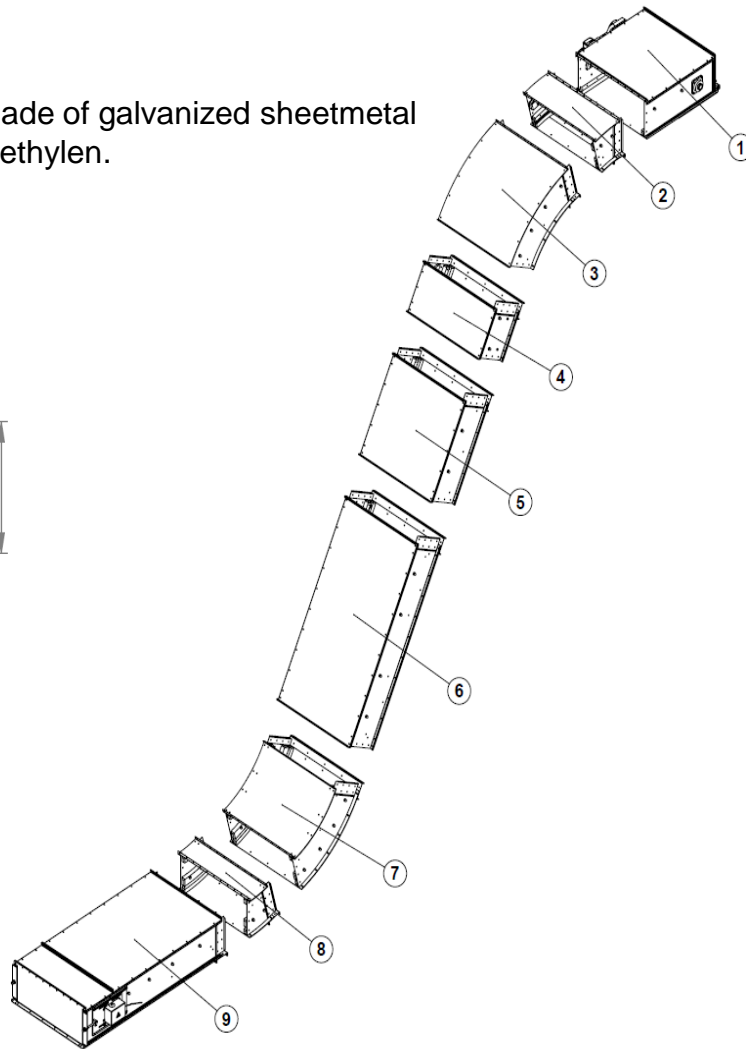
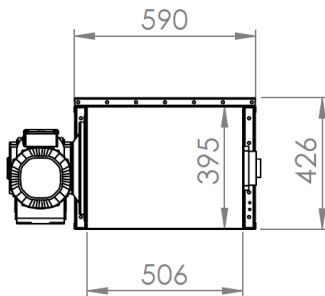


Chain Conveyor.

AKR 400

Technical data:

The chain conveyor is made of galvanized sheetmetal and chain guides of polyethylen.



Pos	Type	Length-Angle	Item No. standard	Item No. w/middle plate	Weight in kg.
1	Gearsektion	1000	192A0067	192A0241	225
2	Bend downwards 15°	15°	192A0069	192A0242	30
3	Bend downwards 45°	45°	192A0061	192A0243	85
4	Intermediate section 0,5m	500	192A0089	192A0244	40
5	Intermediate section 1,0m	1000	192A0064	192A0245	75
6	Intermediate section 2,0m	2000	192A0065	192A0246	140
7	Bend upwards 45°	45°	192A0073	192A0247	85
8	Bend upwards 15°	15°	192A0063	192A0248	30
9	Tightening section	2000	192A0070	192A0249	225

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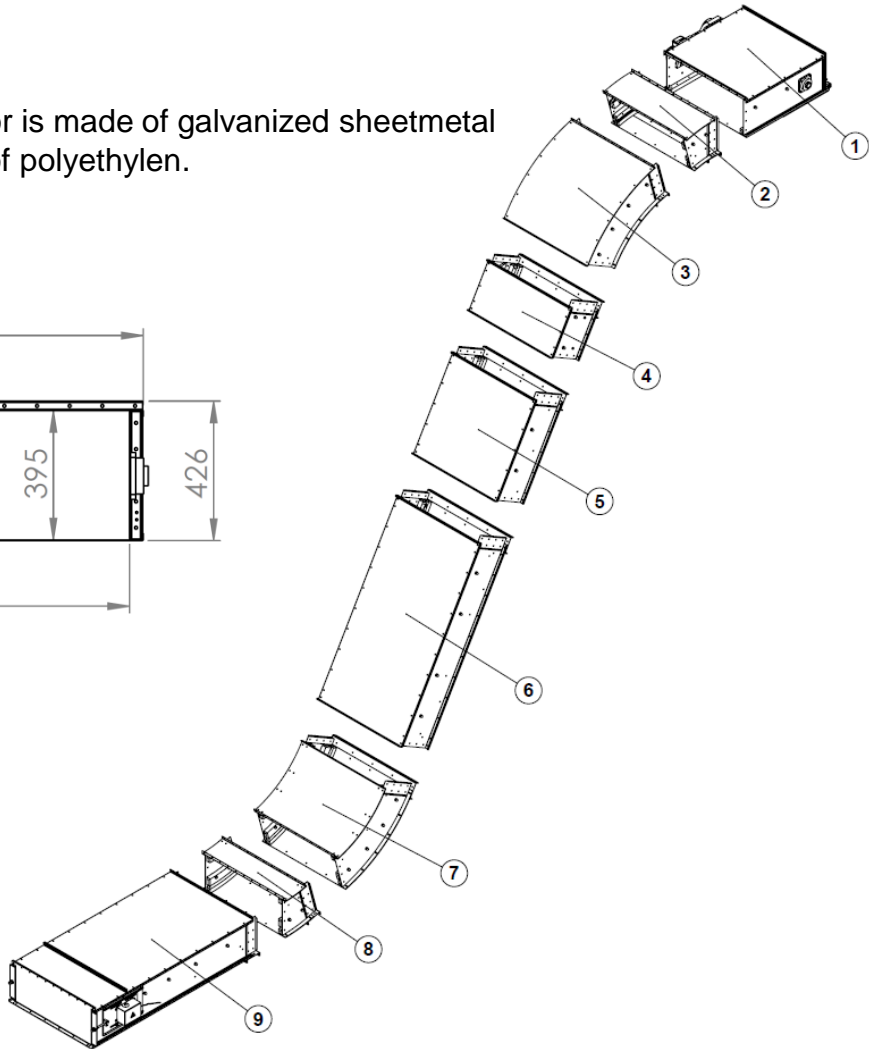
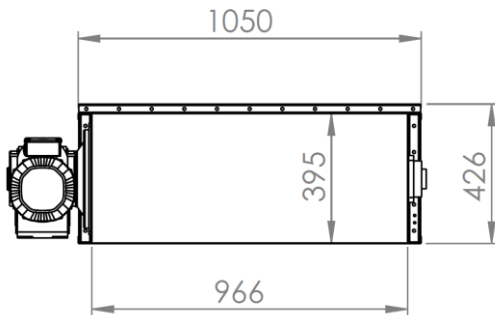
FILTERS - FANS - DUCTING - SILOS - OUTFEEDERS - CONVEYERS - TRUCKLOADERS - CYCLONES - FINISHING LINES

Chain Conveyor.

AKR 900

Technical data:

The chain conveyor is made of galvanized sheetmetal and chain guides of polyethylen.



Pos	Type	Length-Angle	Item No. standard	Item No. w/middle plate	Weight in kg.
1	Gearsektion	1000	192A0002	192A0251	255
2	Bend downwards 15°	15°	192A0009	192A0252	40
3	Bend downwards 45°	45°	192A0008	192A0253	105
4	Intermediate section 0,5m	500	192A0088	192A0254	55
5	Intermediate section 1,0m	1000	192A0058	192A0255	100
6	Intermediate section 2,0m	2000	192A0004	192A0256	190
7	Bend upwards 45°	45°	192A0006	192A0257	105
8	Bend upwards 15°	15°	192A0007	192A0258	40
9	Tightening section	2000	192A0010	192A0259	255

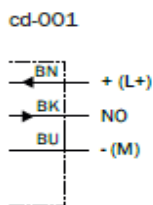
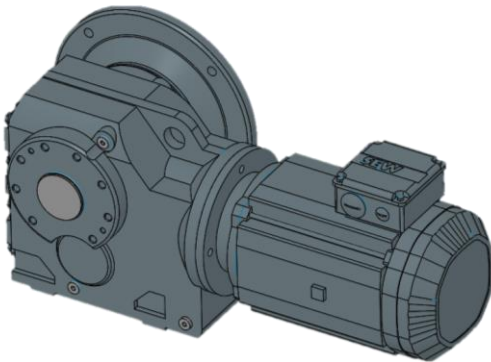
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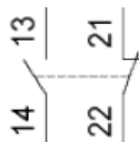
Connection

Electrical

Gearmotor KAF77DRN100L4	19 RPM - 230/400Vac - 3 kW IE3	80000331
Inductive sensor (1pulse/rev.)	10..30Vdc M30 PNP NO	1218
2 x Blocked outlet switch	1 NC + 1 NO	750001



2-pole NC + NO Snap Action

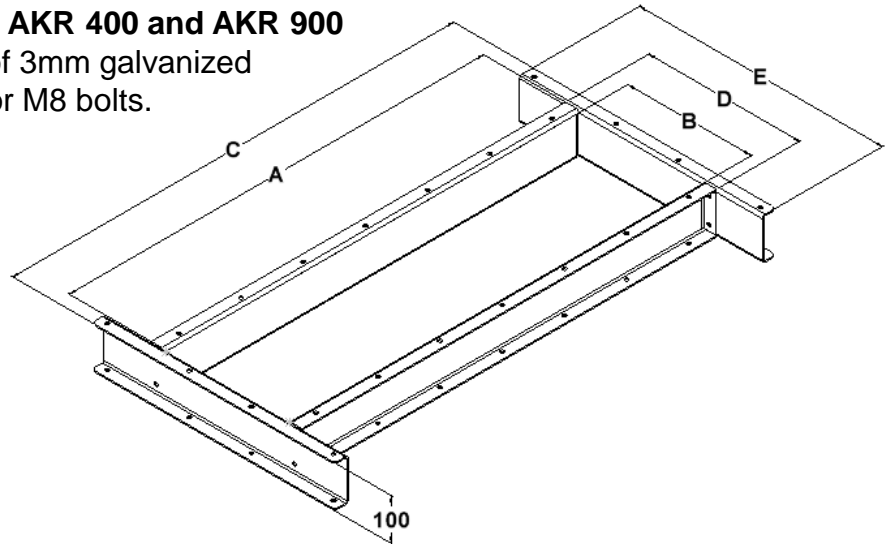


Connection

Inlet

Mounting frame ABS to AKR 400 and AKR 900

Symmetric frame made of 3mm galvanized Sheetmetal with flange for M8 bolts.

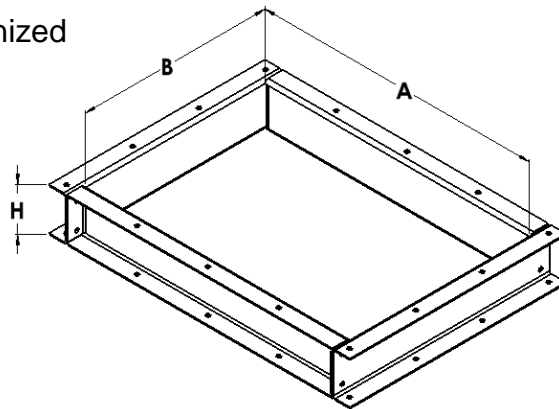


Description	A	B	C	D	E	Item No.
Mount.Frame ABS 1000x450 - AKR 900	1000	450	1064	514	1046	192A0169
Mount.Frame ABS 1000 - AKR 400	1000	300	1064	364	586	192A0170
Mount.Frame ABS 1000 - AKR 900	1000	300	1064	364	1046	192A0171
Mount.Frame ABS 1500 - AKR 400	1500	300	1564	364	586	192A0172
Mount.Frame ABS 1500 - AKR 900	1500	300	1564	364	1046	192A0173

Outlet

Outlet frame AKR 400 and AKR 900

Symmetric frame made of 3mm galvanized Sheetmetal with flange for M8 bolts



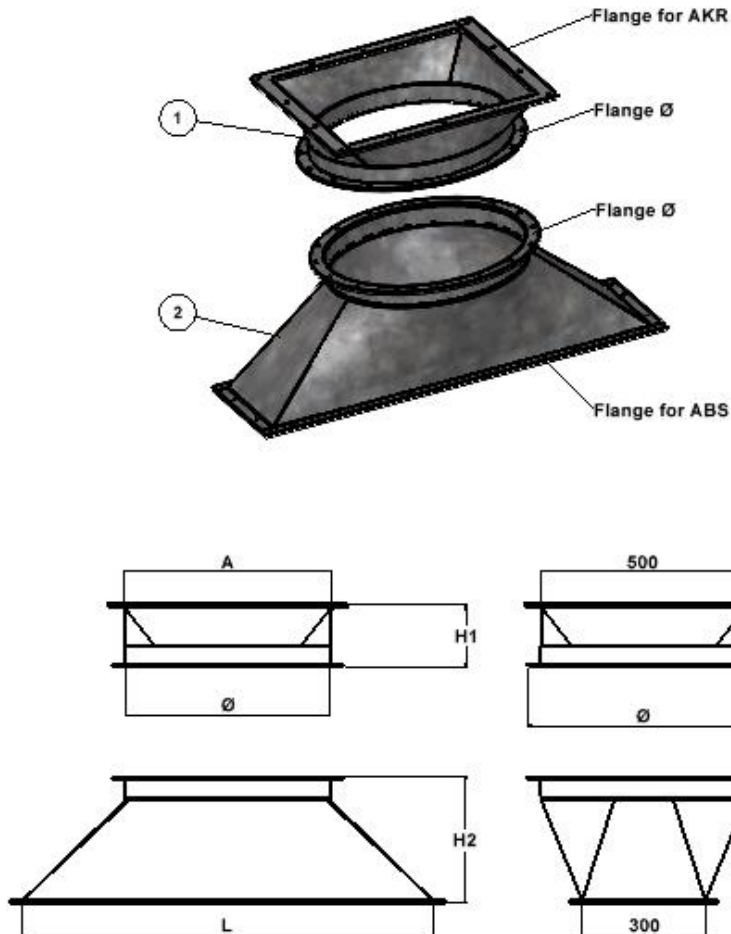
Description	A	B	H	Item No.
Outlet frame AKR 400	506	500	100	192A0156
Outlet frame AKR 900	966	500	100	192A0155

Connection

Outlet kit

Transition piece from AKR 400 / AKR 900 to ABS Rotary valve

Transition pieces made of sheetmetal with flange for M8 bolt joints

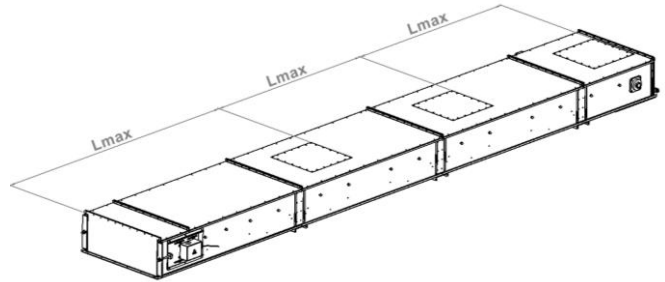


Pos	Description	A	Ø	L	H1	H2	Item No.
1	Transition part1 AKR 400 - Ø	506	500		150		192157
2	Transition part 2 Ø - ABS 750		500	750		300	192158
2	Transition part 2 Ø - ABS 1000		500	1000		300	192159
1	Transition part 1 AKR 900 - Ø	966	800		250		192A0041
2	Transition part 2 Ø - ABS 1000		800	1000		350	192A0042

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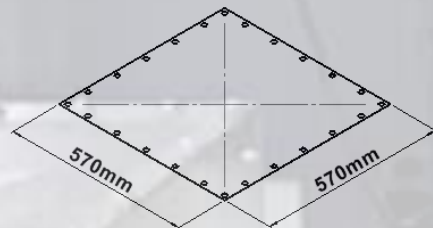
ATEX Options

Lmax	Kmax<100 Pmax<8
AKR 400	2,6m
AKR 900	3,2m



80000292 Explosion panels

490x490 VL



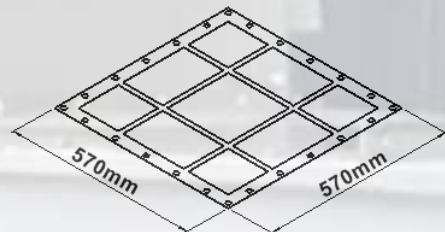
80000558 Burst sensor

For explosion panel



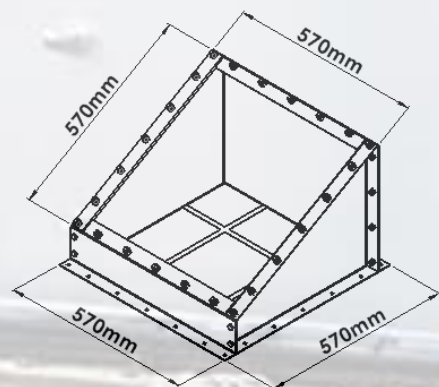
192C0795 Safety net

2mm galvanized sheetmetal
for explosion panel 490x490 VL



192A0154 Explosion chanel 30°

2mm galvanized sheetmetal with
safety net. Flanges for M8 bolt
joints.



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Options - Support



Maximum unsupported conveyor

The maximum length is calculated for different combinations of inclination and snow load. All calculated for wind load $V_b = 27$ m/s (Peak 33m/s) and a material density of 250 kg/m³



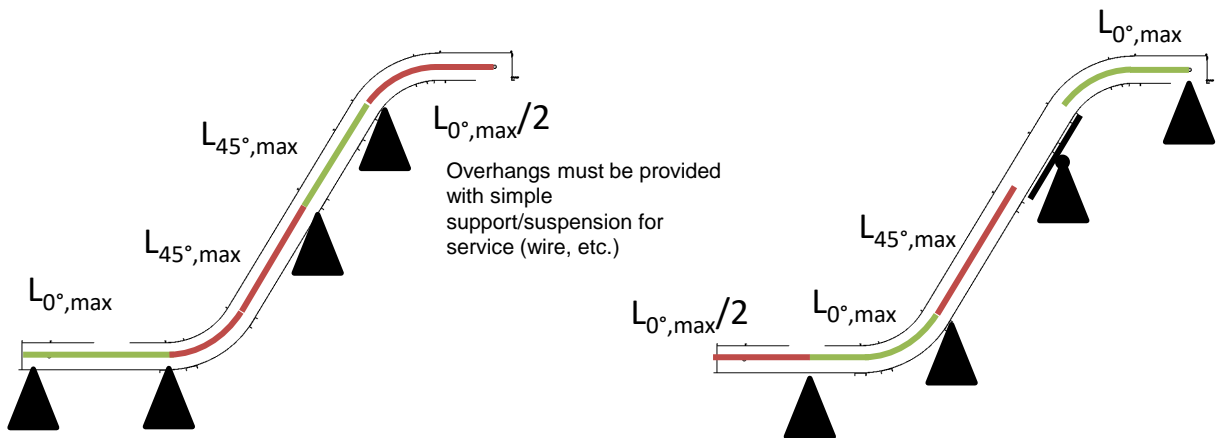
AKR 400	Covered/ indoor		Outdoor Sk 1,0		Outdoor Sk 2,5		AKR 900	Covered/ indoor		Outdoor Sk 1,0		Outdoor Sk 2,5	
0°	11,2	10,7	9,5	9,3	7,4	7,2	0°	9,8	9,2	8,3	8	6,3	6,1
30°	12,1	11,6	10,3	10	7,9	7,8	30°	10,5	9,9	9	8,6	6,8	6,6
45°	13,4	12,8	12,8	12,3	10,8	10,5	45°	11,7	11	11,1	10,5	9,4	9
60°	15,5	14,8	15,5	14,8	15,5	14,8	60°	13,5	12,7	13,5	12,7	13,5	12,7

Bold: Standard Std: Middle plate

S_k : Snow characteristic value

1,0: Typical for DK, PL and GB

2,5: Typical SE(south) parts of NO



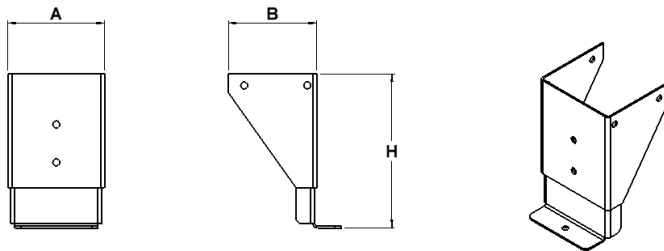
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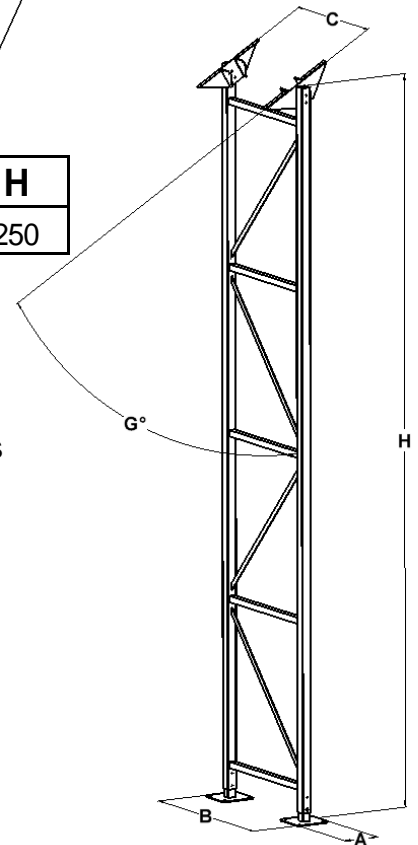
Options

Feet - Adjustable

Made from 3 and 6 mm galvanized plate.
Height = 250 - 280mm below the conveyor.



Item No.	Description	A	B	H
192A0200	Feet adjustable (set of 2 pcs)	153	140	250



Support Trestle - adjustable

Made from hot dip galvanized steel profiles and metal plates

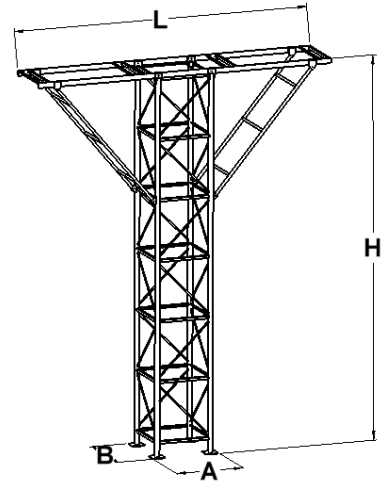
Item No.	Description	A	B	C	G	H
192A0209	Trestle AKR 400	300	978	590	0°- 60°	Max 2000
192A0210	Trestle AKR 400	300	978	590	0°- 60°	Max 4000
192A0211	Trestle AKR 400	300	978	590	0°- 60°	Max 6000
192A0214	Trestle AKR 900	300	1438	1050	0°- 60°	Max 2000
192A0215	Trestle AKR 900	300	1438	1050	0°- 60°	Max 4000
192A0216	Trestle AKR 900	300	1438	1050	0°- 60°	Max 6000

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Options

Support – Lattice tower horizontal

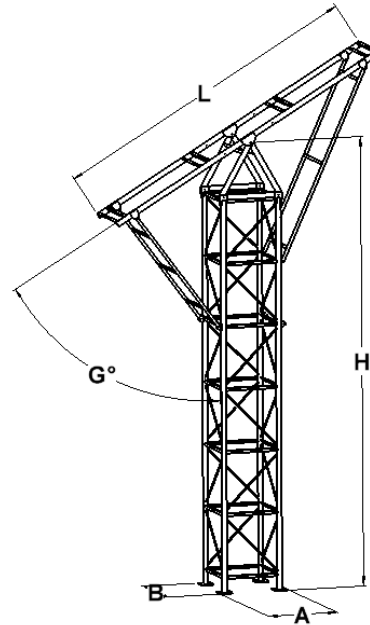
Made from hot dip galvanized steel profiles.



Description	A	B	L		H	Item No. AKR 400	Item No. AKR 900
Lattice tower	1418	1418	6264		Max 6000	192A0220	192A0225
Lattice tower	1418	1418	6264		Max 10000	192A0221	192A0226
Lattice tower	1418	1418	6264		Max 14000	192A0222	192A0227

Support – Lattice tower inclined

Made from hot dip galvanized steel profiles



Description	A	B	L	G	H	Item No. AKR 400	Item No. AKR 900
Lat.tower f/inclined	1418	1418	6264	15-60°	Max 6000	192A0230	192A0235
Lat.tower f/inclined	1418	1418	6264	15-60°	Max 10000	192A0231	192A0236
Lat.tower f/inclined	1418	1418	6264	15-60°	Max 14000	192A0232	192A0237

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Chain conveyor.

Options

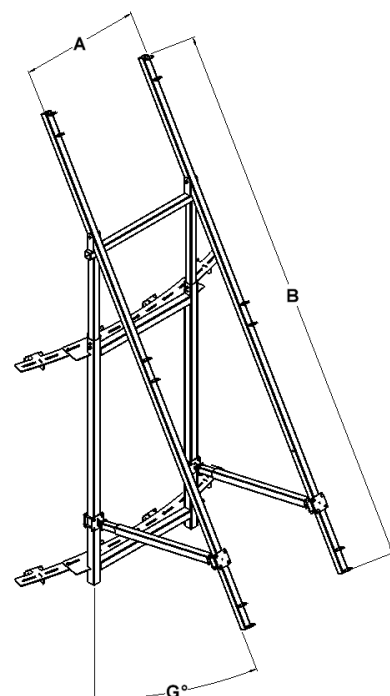
Support - AKR/AST

For support on the top of the silo.

Adjustable height and degrees.

Made of galvanized steel profiles.

Description	A	B	G°	Item no.
Support AKR 900 - AST 22	620	4200	30-90°	192A0190
Support AKR 900 - AST 18	620	4200	30-90°	192A0191
Support AKR 900 - AST 13	620	4200	30-90°	192A0192
Support AKR 400 - AST 22	1080	4200	30-90°	192A0193
Support AKR 400 - AST 18	1080	4200	30-90°	192A0194
Support AKR 400 - AST 13	1080	4200	30-90°	192A0195



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