





Technical Information "Modular Belts"

Belt S06
 Belt S12
 Belt S25
 Belt S25
 Belt S50
 Belt S75
 Belt S75
 S25 Radius belts
 Pitch 6.25 mm
 Pitch 25 mm
 Pitch 75 mm
 Pitch 25 mm
 Pitch 25 mm
 Pitch 50 mm

- 8. Accessories
- 9. Construction and Installation Instructions



Belt S06 (Pitch = 6.25 mm) 5 S06-401 **Belt S12 (Pitch = 12.5 mm)** 7 • S12-401 8 S12-406 • S12-408 9 10 • S12-408 F/2 component S12-448 11 Belt S25 (Pitch = 25.0 mm) • S25-100 13 S25-400 14 15 S25-400 F/2 component S25-402 16 S25-406 17 • S25-408 18 19 S25-411 20 • S25-412 • S25-418 21 22 S25-420 23 S25-600 S25-700 24 25 S25-702 S25-800 26 • S25-800 F/2 component 27 • S25-806 28 29 S25-830 S25-836 30 Belt S50 (Pitch = 50.0 mm) • S50-100 32 S50-300 33 34 S50-401 S50-600 35 S50-600 F/2 component 36 37 S50-602 S50-606 38 39 S50-608 40 S50-610 41 S50-630 S50-801 42 43 S50-804 S50-806 44 S50-808 45 S50-830 46 S50-838 47 S50-906 48 • S50-908 49 50 S50-930

51

S50-938



Belt S	75 (Pitch = 75.0 mm)	
•	S75-908	53
•	S75-938	54
Radiu	s Belt S25	
•	S101	56
•	S101-25 mm	57
•	S101 Hook measuring, Inside	58
•	S101 Hook measuring, Outside	59
•	S100R	60
•	S100R-25 mm	61
•	S100R Hook measuring, Inside	63
•	S100R Hook measuring, Outside	64
•	S101 Tracklink	65
Radiu	s Belt S50	
•	S201	67
•	S201 – 50 mm	68
•	S201 Hook	69
•	S201 Hook – 50 mm	70
•	S250	71
•	J450	72
•	50 mm – Measurements	73
•	Radius belt – Frame Measurements	74
•	Radius belt – Installation	75
•	S- Curve, Calculation	76
Acces	sories	
•	S25, 100 – 600 – 700	78
•	S25, 400 – 408 – 800	79
•	S50	80
•	S25, radius belt	81
•	S50, radius belt	82
•	Spare parts, radius belt	83
•	Finger transfer plates	84
•	Clips – straight belt	85
•	Clips – radius belt	86
•	Wear strips	87
•	Construction / Installation	88
•	Material	97
•	Chemical resistance	100
•	Installation	102
•	Malfunction	104
•	Calculation, Power calculation	106

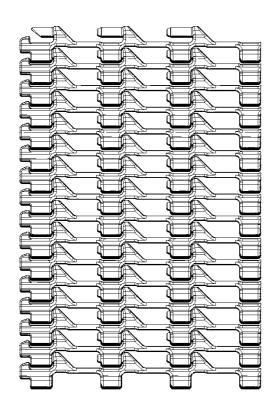


1.Belt **S06**

Pitch 6.25 mm







	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Polyacetal (POM)	Min. 250	2,8

Belt surface: Open belt with a smooth surface.
Open area: 40%. Biggest opening 4 x 8 mm.
Strength: Ideal choice for light transportation.

Material/colour: POM/NAT Cleanability: Excellent. FSIS

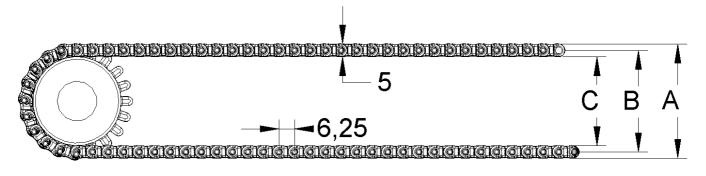
Accessories:

Application: Transport of product s that require a very

small transfer.

Standard widths: Increments of 40 mm, e.g. 200 mm, 240

	Sprocket Data							
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside- diameter		Round bor	re	Square	bore
					mm	in.	mm	in.
20	44	39	35	6	20			
36	74	69	65	6	20/25		25	
48	96	91	87	16	20/25		25/40	



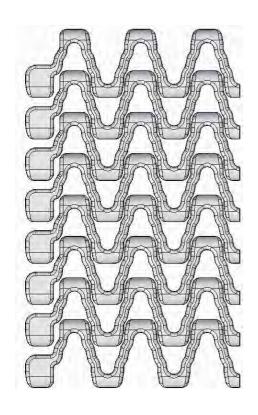


2. Belt S12

Pitch 12.5 mm







	Belt data	
Materials	Max. belt pull	Belt weight
	kg/m of width	kg/m²
Polyethylene (PE)	600	3,5
Polypropylene (PP)	800	3,5
Polyacetal (POM)	1450	4,8

Belt surface: Open belt with a smooth surface.

Open area: 40%. Biggest opening 6 x 8 mm.

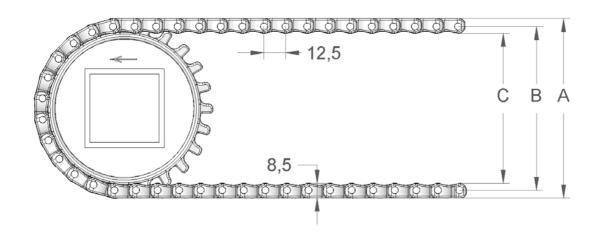
Strength: Ideal choice for light transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue

Cleanability: Excellent. FSIS

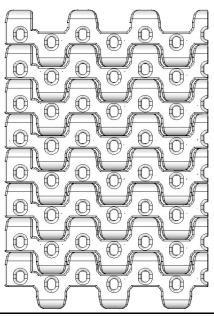
Accessories: 25 mm. Flight, friction top Application: Cooling belt for small nose bar.

	Sprocket Data							
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside- diameter	Hub width:	Round bore	9	Square	bore
					mm	in.	mm	in.
10	50	42	33	16	20			
19	84	76	67	16	20/25/30/40		25/40	1 ½
24	104	96	87	16	20/25/30/40		25/40	1 ½
28	120	112	103	16	20/25/30/40		25/40	1 ½



S12-406





	Belt data	
Materials	Max. belt pull	Belt weight
	kg/m width	kg/m²
Polyethylene (PE)	600	4,5
Polypropylene (PP)	800	4,5
Polyacetal (POM)	1450	6

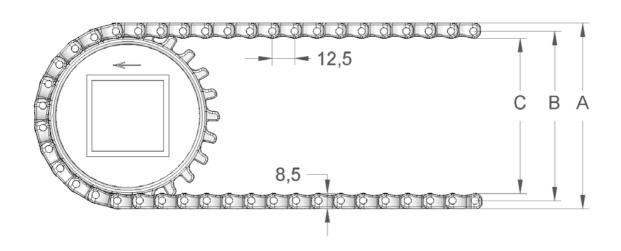
Belt surface: Perforated flat top.

Open area: 8%. Biggest opening 4 x 2,5 mm.
Strength: Ideal choice for light transportation.
Material/colour: PE/nat, PP/white and grey. POM/blue

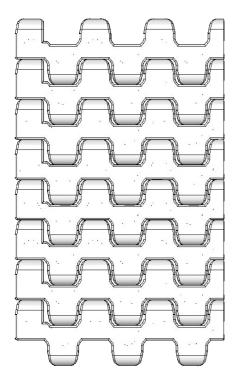
Cleanability: Excellent. FSIS

Accessories: 25 mm flights, friction top.
Application: Cooling belt for small nose bar.

	Sprocket Data							
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside- diameter	Hub width:	Round bore	:	Square	bore
					mm	in.	mm	in.
10	50	42	33	16	20			
19	84	76	67	16	20/25/30/40		25/40	1½
24	104	96	87	16	20/25/30/40		25/40	1½
28	120	112	103	16	20/25/30/40		25/40	1½







	Belt data	
Materials	Max. belt pull	Belt weight
	kg/m of width	kg/m²
Polyethylene (PE)	600	4,5
Polypropylene (PP)	800	4,5
Polyacetal (POM)	1450	6

Belt surface: Flat top. Open area: Closed.

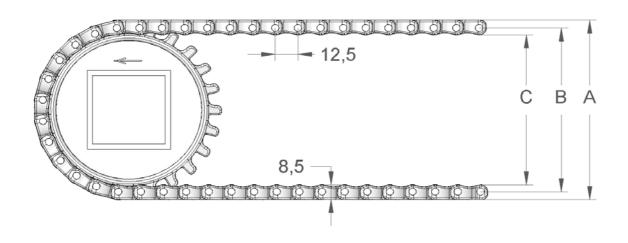
Strength: Ideal choice for light transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue

Cleanability: Excellent. FSIS

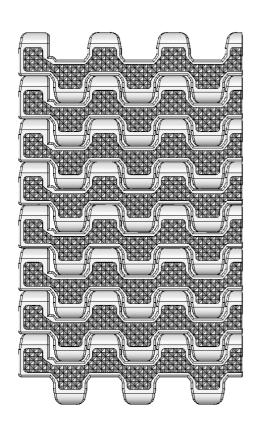
Accessories: 25 mm flights, friction top.
Application: Cooling belt for small nose bar.

	Sprocket Data							
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside- diameter	Hub width:	Round bore	9	Square	bore
					mm	in.	mm	in.
10	50	42	33	16	20			
19	84	76	67	16	20/25/30/40		25/40	1 ½
24	104	96	87	16	20/25/30/40		25/40	1 ½
28	120	112	103	16	20/25/30/40		25/40	1½



S12-408 F/2 component





	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Copolymer:	750	6

Belt surface: Flat top with friction surface.

Open area: Closed.

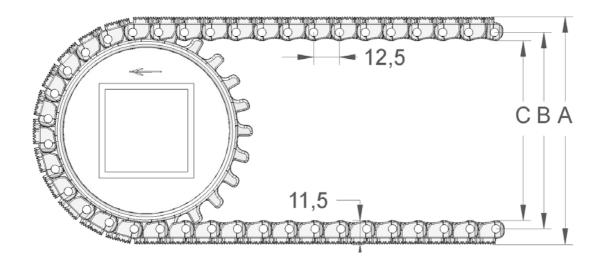
Strength: Ideal choice for light transportation.

Colour: nat/white.
Cleanability: Excellent. FSIS
Accessories: 25 mm flights

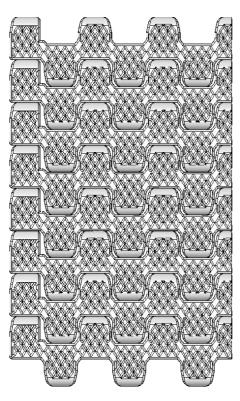
Application: Transport of goods on a slightly inclined

conveyor.

	Sprocket Data							
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside- diameter	Hub width:	Round bore	9	Square	bore
					mm	in.	mm	in.
10	52	42	33	16	20			
19	86	76	67	16	20/25/30/40		25/40	1 1/2
24	106	96	87	16	20/25/30/40		25/40	1 1/2
28	122	112	103	16	20/25/30/40		25/40	1½







	Belt data	
Materials	Max. belt pull	Belt weight
	kg/m of width	kg/m ²
Polyethylene (PE)	600	4,5
Polypropylene (PP)	800	4,5
Polyacetal (POM)	1450	6

Belt surface: Closed top with an inverted diamond

pattern

Open area: Closed.

Strength: Ideal choice for light transportation.

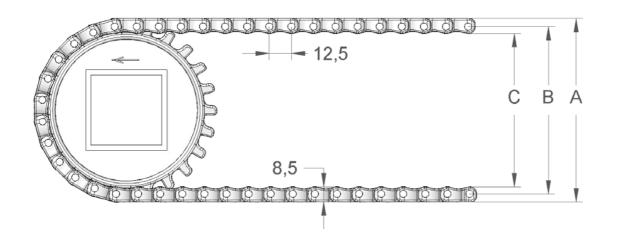
Material/colour: PE/nat and PP/white Cleanability: Excellent. FSIS

Accessories: 25 mm flights, friction top.

Application: Proofing belt for raw dough. The inverted

diamond pattern ensures easy product

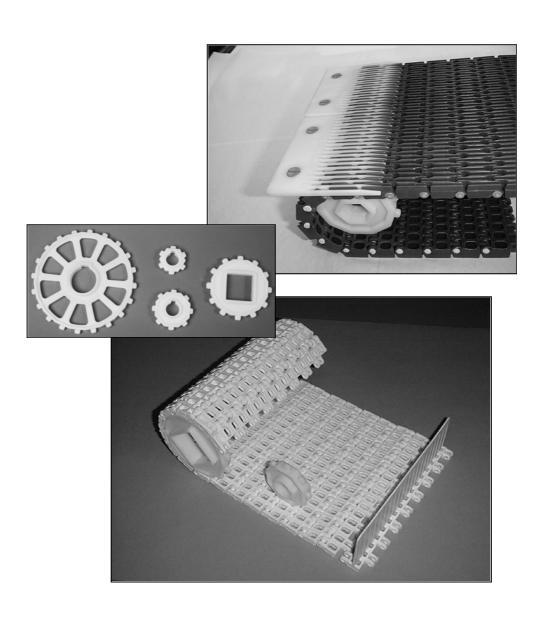
	Sprocket Data									
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside- diameter	Hub width:	Round bore	е	Square	bore		
					mm	in.	mm	in.		
10	50	42	33	16	20					
19	84	76	67	16	20/25/30/40		25/40	1 ½		
24	104	96	87	16	20/25/30/40		25/40	1 ½		
28	120	112	103	16	20/25/30/40		25/40	1 ½		



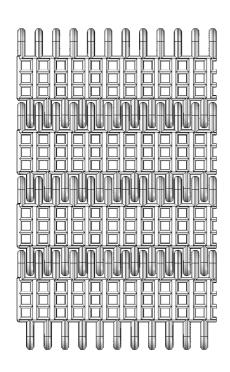


3. Belt S25

Pitch 25 mm







	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Polyethylene (PE)	540	4,5
Polypropylene (PP)	740	4,5
Polyacetal (POM)	1250	6

Belt surface: Open belt with a smooth surface.
Open area: 20 %. Biggest opening 3 x 3 mm.
Strength: Ideal choice for light transportation.
Material/colour: PE/nat, PP/white and grey. POM/blue

Cleanability: Good.

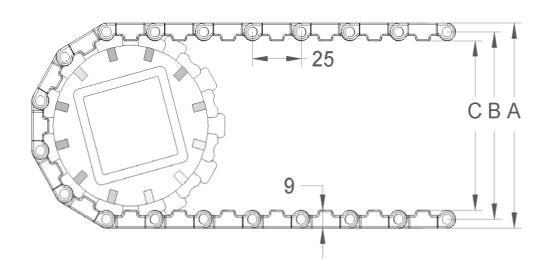
Accessories: 5, 25 and 50 mm flights, 25 and 50 mm

side guards. 25 and 50 mm friction flights.

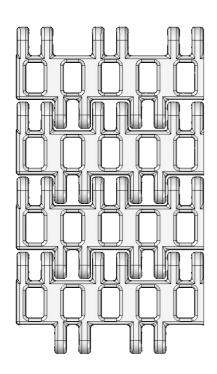
Application: Catering, dairy, snacks and seafood

industry.

	Sprocket Data									
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bor	е	Square	bore		
					mm	in.	mm	in.		
6	59	50	41	40	20					
12	106	97	88	40	25/30/40		40	1 1/2		
20	172	161	152	40	25/30/40		40/60	1 1/2		







	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Polyethylene (PE)	630	5
Polypropylene (PP)	1060	5
Polyacetal (POM)	1500	7

Belt surface: Open belt with a smooth surface.

Open area: 29 %. Biggest opening 6 x 10 mm.

Strength: Ideal for medium weight transportation..

Cleanability: Excellent. FSIS

Material/colour:

Accessories: 3, 25 and 50 mm flights. 25 and 50 mm side

guards, friction top.

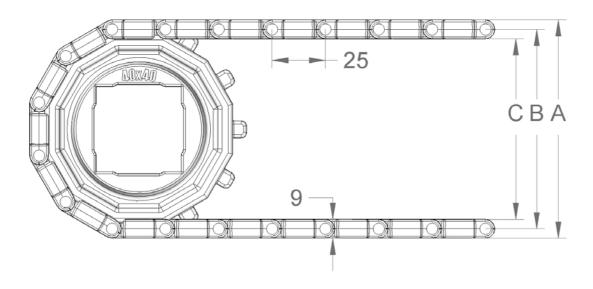
Application: Seafood, red meat, vegetables, bakery and

food industry in general. Even cooling/freezing and washing.

PE/nat, PP/white and grey. POM/blue

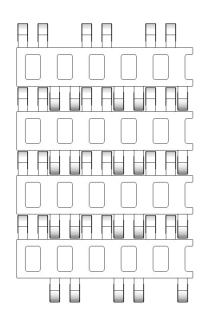
Standard widths: Increments of 25 mm, e.g. 100, 125 mm etc Non standard widths: Increments of 12,5 mm, e.g. 100, 112,5 mm etc

	Sprocket Data										
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bord	e	Square	bore			
					mm	in.	mm	in.			
6	54	45	36	20	20						
8	70	61	52	20	20/25	1	25				
12	104	95	86	20	20/25/30/40	1/11/4	25/40	1 ½			
20	169	160	151	35	25/30/40	1/11/4	25/40/60	1½/2½			



S25-400F/2 component





	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Copolymer:	900	7

Belt surface: Friction surface.

Open area: 29 %. Biggest opening 6 x 10 mm. Strength: Ideal for medium weight transportation.

Colour: nat/white. Cleanability: Excellent. FSIS

Accessories: 3, 25 and 50 mm flights, 25 and 50 mm side

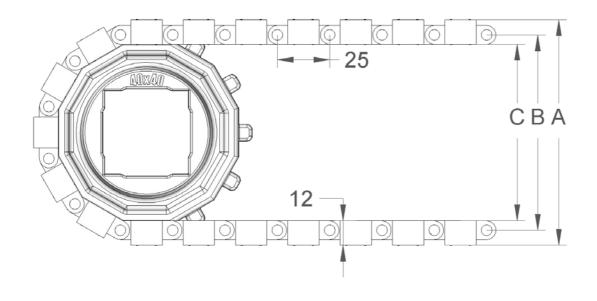
guards

Application: Transport of packed goods on a slightly

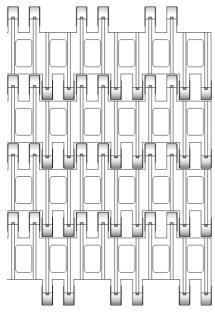
inclined conveyor.

Standard widths: Increments of 25 mm, e.g. 100, 125 mm etc Non standard widths: Increments of 12,5 mm, e.g. 100, 112,5 mm etc

	Sprocket Data										
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bor	е	Square	bore			
					mm	in.	mm	in.			
6	58	45	36	20	20						
8	74	61	52	20	20/25	1	25				
12	108	95	86	20	20/25/30/40	1/11/4	25/40	1 ½			
20	173	160	151	35	25/30/40	1/1¼	25/40/60	1½/2½			







		Belt data	
	Materials	Max. belt pull	Belt weight
		kg/m of width	kg/m²
1	Polyethylene (PE)	700	6
	Polypropylene (PP)	1120	6
	Polyacetal (POM)	1500	7,5

Belt surface: Raised ribs, 5 mm.

Open area: 29 %. Biggest opening 6 x 10 mm.

Strength: Ideal for medium weight transportation.
Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS

Accessories: 3, 25 and 50 mm flights. 25 and 50 mm side

guards, friction top.

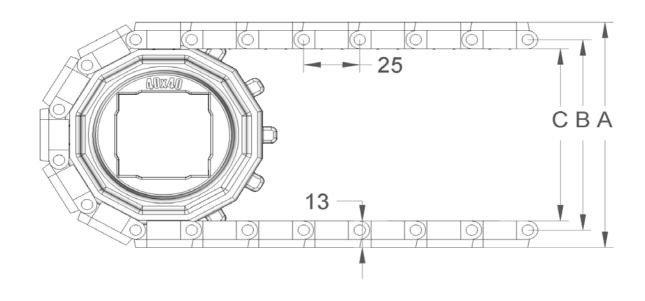
Application: Transport of products which demand a low

contact surface.

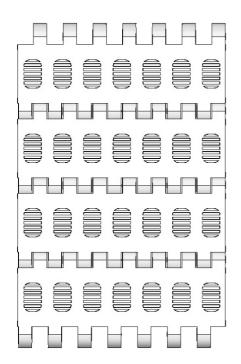
Standard widths: Increments of 25 mm, e.g. 100, 125 mm etc Non standard widths: Increments of 12,5 mm, e.g. 100, 112,5 mm etc

Note: Non standard widths will have cut edge on one side.

	Sprocket Data									
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bor	е	Square	bore		
					mm	in.	mm	in.		
6	58	45	36	20	20					
8	75	61	52	20	20/25	1	25			
12	109	95	86	20	20/25/30/40	1/11/4	25/40	1 ½		
20	174	160	151	35	25/30/40	1/11/4	25/40/60	1½/2½		







	Belt data	
Materials	Max. belt pull	Belt weight
	kg/m of width	kg/m²
Polyethylene (PE)	900	6
Polypropylene (PP)	1250	6
Polyacetal (POM)	2400	8

Belt surface: Perforated flat top.

Open area: 13 %. Biggest opening 1 x 6 mm.

Strength: Ideal for medium weight transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue

Cleanability: Good

Application:

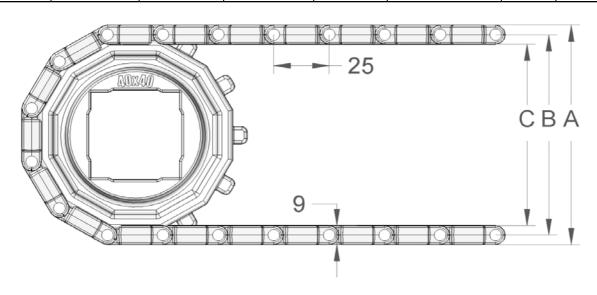
Accessories: 3, 25 and 50 mm flights, 25 and 50 mm

side guards. 25 and 50 mm friction flights. Dairy, vegetables, poultry, snacks, sweet

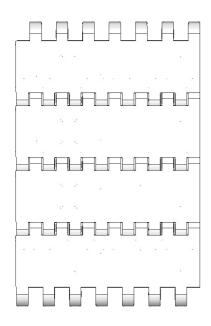
goods and other industries that handle products requiring drainage and very small

openings.

	Sprocket Data										
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bord	е	Square	bore			
					mm	in.	mm	in.			
6	54	45	36	20	20						
8	70	61	52	20	20/25	1	25				
12	104	95	86	20	20/25/30/40	1/11/4	25/40	1 ½			
20	169	160	151	35	25/30/40	1/11/4	25/40/60	1½/2½			







	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Polyethylene (PE)	900	6
Polypropylene (PP)	1250	6
Polyacetal (POM)	2400	8,5

Belt surface: Flat top. Open area: Closed.

Strength: Strongest belt in the S.25 series. Ideal for

medium weight transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue

Cleanability: Good.FSIS

Accessories: 3, 25 and 50 mm flights, 25 and 50 mm side

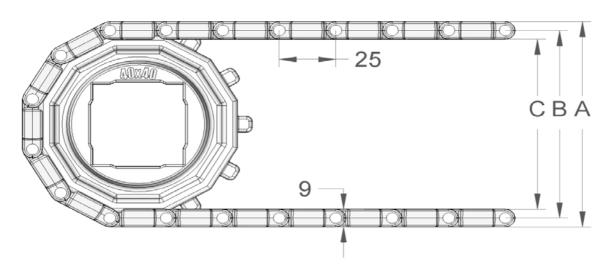
guards.

Application: Transport of small products such as machine

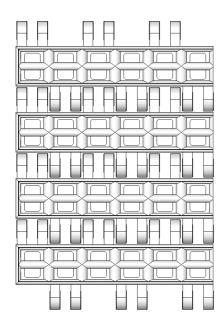
components. Vulcanising belt for the rubber

industry.

	Sprocket Data									
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bord	е	Square	bore		
					mm	in.	mm	in.		
6	54	45	36	20	20					
8	70	61	52	20	20/25	1	25			
12	104	95	86	20	20/25/30/40	1/11/4	25/40	1 ½		
20	169	160	151	35	25/30/40	1/11/4	25/40/60	1½/2½		







Belt data							
Materials	Max. belt pull kg/m of width	Belt weight kg/m²					
Polyethylene (PE)	630	6					
Polypropylene (PP)	1060	6					
Polyacetal (POM)	1620	7,5					

Belt surface: Open net-like belt with a curved surface.

Open area: 26 %. Biggest opening 3 x 6 mm.

Strength: Ideal for medium weight transportation.
Material/colour: PE/nat, PP/white and grey. POM/blue

Cleanability: Excellent. FSIS

Accessories: 3, 25 and 50 mm flights, 25 and 50 mm side

guards, friction top.

Application: Fish, meat, vegetables, frozen food etc.

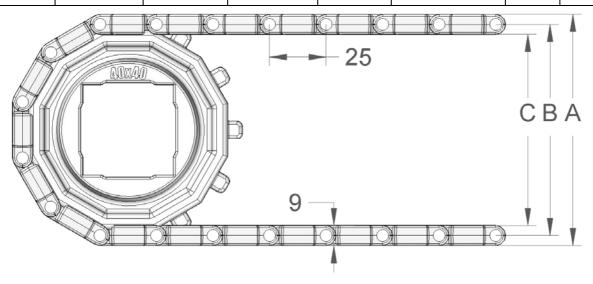
Suitable for blanching belts and boiling of

noodles.

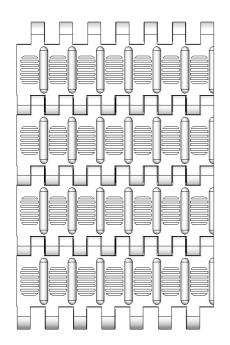
Standard widths: Increments of 25 mm, e.g. 100, 125 mm etc Non standard widths: Increments of 12,5 mm, e.g. 100, 112,5 mm etc

Note: Non standard widths will have cut edge on one side.

	Sprocket Data									
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bor	e	Square	bore		
					mm	in.	mm	in.		
6	54	45	36	20	20					
8	70	61	52	20	20/25	1	25			
12	104	95	86	20	20/25/30/40	1/11/4	25/40	1½/2½		
20	169	160	151	35	25/30/40	1/11/4	25/40/60	1 1/2		







	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Polyethylene (PE)	900	6
Polypropylene (PP)	1250	6
Polyacetal (POM)	2400	9

Belt surface: Open net-like belt with 2,5 mm flights. Open area: 13 %. Biggest opening 1 x 6 mm.

Strength: Ideal for medium weight transportation.
Material/colour: PE/nat, PP/white and grey. POM/blue

Cleanability: Good. FSIS

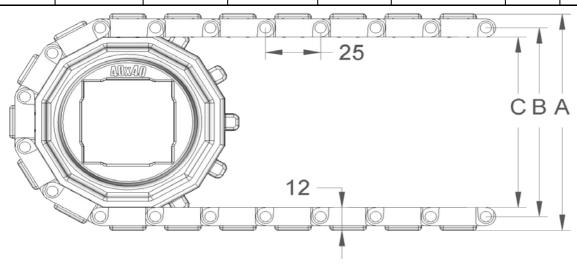
Accessories: 3, 25 and 50 mm flights, 25 and 50 mm side

guards.

Application: Fish, meat, vegetables etc. Suitable for

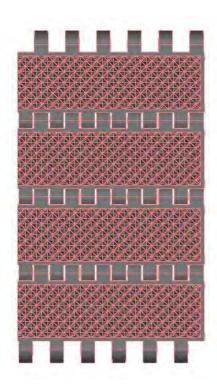
blanching belts and boiling of noodles.

	Sprocket Data									
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bore	9	Square	bore		
					mm	in.	mm	in.		
6	57	45	36	20	20					
8	75	61	52	20	20/25	1	25			
12	108	95	86	20	20/25/30/40	1/11/4	25/40	1½/2½		
20	173	160	151	35	25/30/40	1/11/4	25/40/60	1 ½		



MARTENS Tradition and improvation since 1929

S25-418



	Belt data	
Materials	Max. belt pull	Belt weight
	kg/m of width	kg/m²
Polyethylene (PE)	900	6
Polypropylene (PP)	1250	6
Polyacetal (POM)	2400	8,5

Belt surface: Rough top Open area: Closed.

Strength: Ideal choice for medium-duty

transportation.

Material/colour: PP/white, POM/black

Cleanability: Good

Accessories: 25 and 50 mm flights. 25 and 50 mm

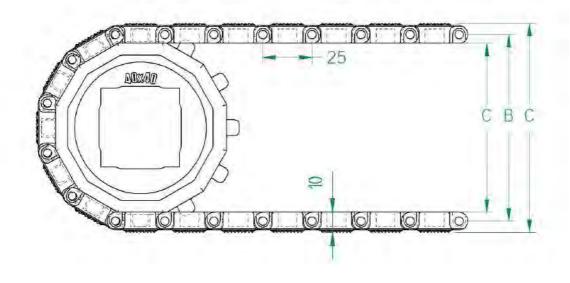
side guards. 25 and 50 mm friction flights.

Application: Pallets, doors, panels ect. The rough top

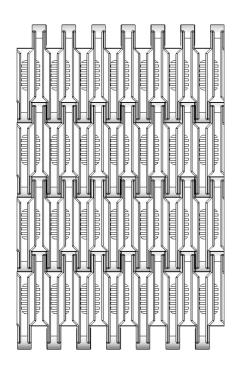
ensures a higher friction as well as extra

wear surface.

	Sprocket Data										
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside- diameter	Hub width:	Round bor	е	Square	bore			
					mm	in.	mm	in.			
6	56	45	36	20	20						
8	72	61	52	20	20/25	1	25				
12	106	95	86	20	20/25/30/40	1/11/4	25/40	1 ½			
20	171	160	151	35	25/30/40	1/11/4	25/40/60	1½/2½			







Belt data							
Materials	Max. belt pull kg/m of width	Belt weight kg/m²					
Polyethylene (PE)	900	8					
Polypropylene (PP)	1200	8					
Polyacetal (POM)	2400	11					

Belt surface: Raised ribs – drained – for the use of finger

transfer plates.

Open area: 14 %. Biggest opening 10 x 2 mm.

Strength: Ideal for medium weight transportation.
Material/colour: PE/nat, PP/white and grey. POM/blue.

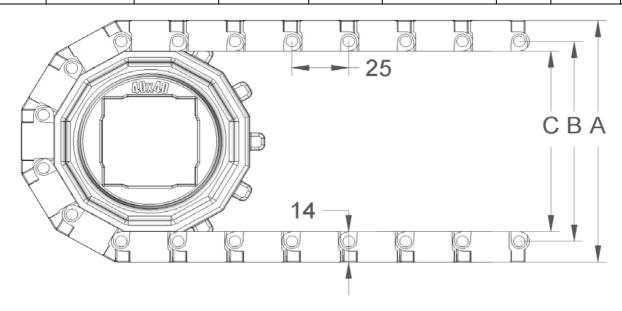
Cleanability: Excellent. FSIS

Accessories: Finger transfer plates.

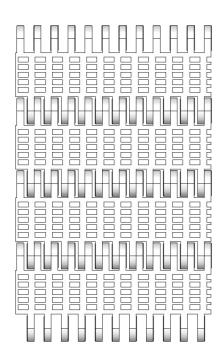
Application: Transport of small products, such as bottles,

glass and machine components.

	Sprocket Data									
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bor	e	Square	bore		
					mm	in.	mm	in.		
6	64	45	36	20	20					
8	80	61	52	20	20/25	1	25			
12	114	95	86	20	20/25/30/40	1/11/4	25/40	1½/2½		
20	179	160	151	35	25/30/40	1/11/4	25/40/60	1 ½		







	Belt data	
Materials	Max. belt pull	Belt weight
	kg/m of width	kg/m ²
Polyethylene (PE)	540	4
Polypropylene (PP)	740	4
Polyacetal (POM)	1250	6

Belt surface: Perforated flat top.

Open area: 16 %. Biggest opening 1,5 x 3 mm.

Strength: An ideal choice for light transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Good. FSIS

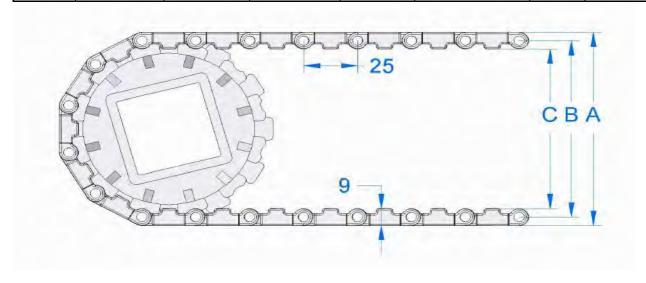
Accessories: 5, 25 and 50 mm flights, 25 and 50 mm side

guards. 25 and 50 mm friction flights.

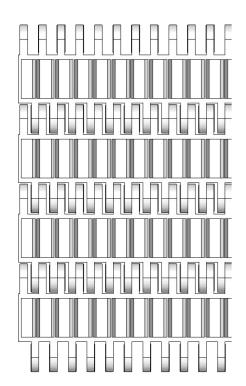
Application: Bakery (raw dough), poultry, sweets and other

industries.

	Sprocket Data									
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bor	е	Square	bore		
					mm	in.	mm	in.		
6	59	50	41	40	20					
12	106	97	88	40	25/30/40		40	1 1/2		
20	172	161	152	40	25/30/40		40/60	1½/		







Belt data							
Materials	Max. belt pull kg/m of width	Belt weight kg/m²					
Polyethylene (PE)	540	4					
Polypropylene (PP)	740	4					
Polyacetal (POM)	1250	6					

Belt surface: Open belt with a smooth surface..

Open area: 27 %. Biggest opening 3 x 12 mm.

Strength: An ideal choice for light transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue

Cleanability: Good. FSIS

Accessories: 5, 25 and 50 mm flights, 25 and 50 mm side

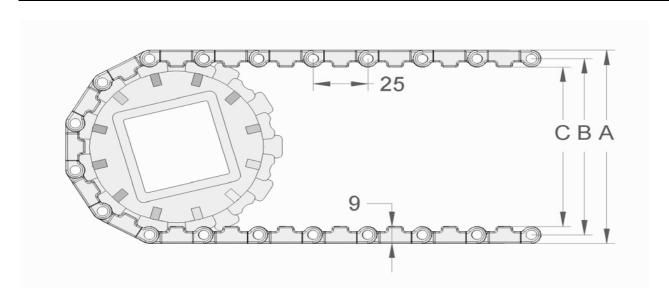
guards.

Application: Vegetables, bakery, seafood, poultry and

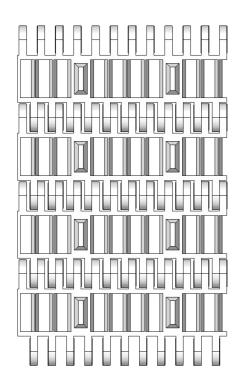
other industries. Even as cooling/freezing

belt.

Sprocket Data									
A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bor	е	Square	bore		
				mm	in.	mm	in.		
59	50	41	40	20					
106	97	88	40	25/30/40		40	1 1/2		
170	161	152	40	25/30/40		40/60	1 1/2		
	diameter 59 106	diameter diameter 59 50 106 97	A= Outside diameter B= Pitch diameter 59 50 41 106 97 88	A= Outside diameter B= Pitch diameter Hub width: 59 50 41 40 106 97 88 40	A= Outside diameter B= Pitch diameter C= Inside diameter Hub width: Round bor 59 50 41 40 20 106 97 88 40 25/30/40	A= Outside diameter B= Pitch diameter C= Inside diameter Hub width: Round bore 59 50 41 40 20 106 97 88 40 25/30/40	A= Outside diameter B= Pitch diameter C= Inside diameter Hub width: Round bore Square 59 50 41 40 20 106 97 88 40 25/30/40 40 40		







Belt data						
Materials	Max. belt pull kg/m of width	Belt weight kg/m²				
Polyethylene (PE)	540	4				
Polypropylene (PP) Polyacetal (POM)	740 1250	4 6				

Belt surface: Open net-like belt with 2,5 mm flights.
Open area: 22 %. Biggest opening 3 x 12 mm.
Strength: An ideal choice for light transportation.
Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Good. FSIS

Accessories: 5, 25 and 50 mm flights, 25 and 50 mm side

guards. Standard modules can be supplied in

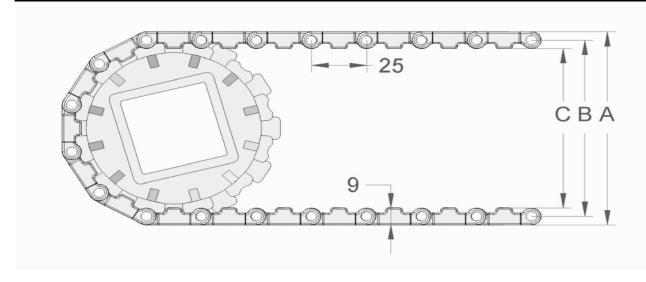
a special high-friction material.

Application: Products requiring drainage and demanding a

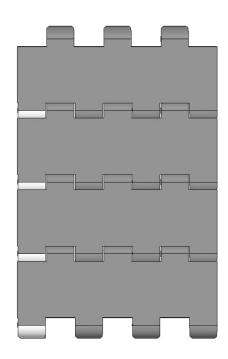
low contact surface, such as lacquering of

furniture.

	Sprocket Data								
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bor	·e	Square	bore	
					mm	in.	mm	in.	
6	64	50	41	40	20				
12	111	97	88	40	25/30/40		40	1 1/2	
20	175	161	152	40	25/30/40		40/60	1 1/2	







	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Polyethylene (PE)	550	5
Polypropylene (PP)	650	5
Polyacetal (POM)	1050	7,5

Belt surface: Flat top. Open area: Closed.

Strength: An ideal choice for light transportation. Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

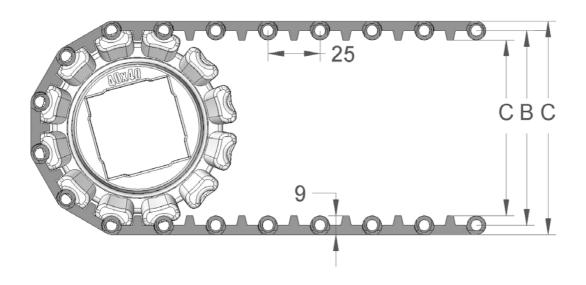
Accessories: 3, 25 and 50 mm flights. 25 and 50 mm side

guards, friction top.

Application: Red meat, vegetables, seafood, fruit, snacks

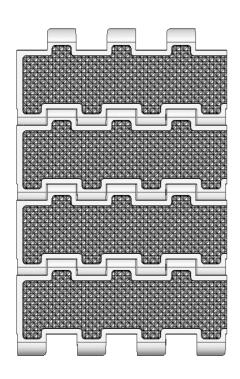
and pastry.

	Sprocket Data									
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bor	-e	Squar	e bore		
					mm	in.	mm	in.		
6	59	50	41	20	20					
12	106	97	88	20	20/25/30/40	3/4/1/11/4	40	1 ½		
20	170	161	152	35	25/30/40	3/4/1/11/4	40/60	1½/2½		





S25-800 F/2 component



	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Copolymer	600	7

Belt surface: Closed belt with a 3mm friction surface

Open area: Closed

Strength: An ideal choice for light transportation.

Colour: Nat/white. Cleanability: Good.

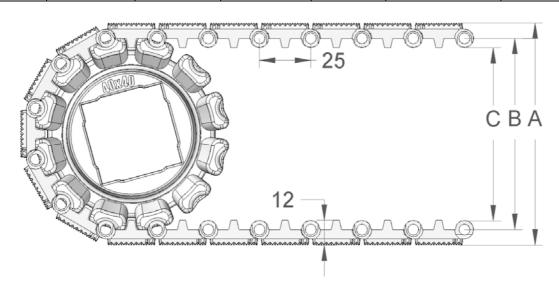
Accessories: 25 and 50 mm flights. 25 and 50 mm side

guards.

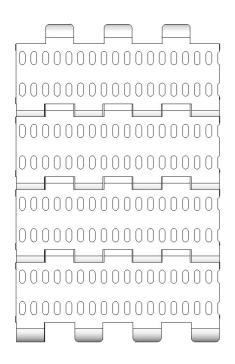
Application: Transport of goods on a slightly inclined

conveyor.

	Sprocket Data								
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bor	e	Square	e bore	
					mm	in.	mm	in.	
6	59	50	41	20	20				
12	106	97	88	20	20/25/30/40	3/4/1/11//4	40	1 ½	
20	170	161	152	35	25/30/40	3/4/1/11/4	40/60	1½/2½	







	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Polyethylene (PE)	550	5,5
Polypropylene (PP) Polyacetal (POM)	650 1050	5,5 8

Belt surface: Perforated flat top.

Open area: 17 %. Biggest opening 2 x 5 mm.

Strength: An ideal choice for light transportation. Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

Accessories: 3, 25 and 50 mm flights, 25 and 50 mm

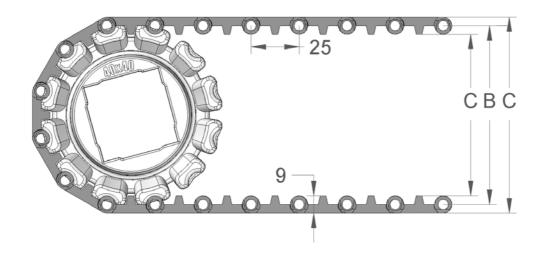
side guards, friction top.

Application: Seafood, dairy, vegetables, poultry, snacks,

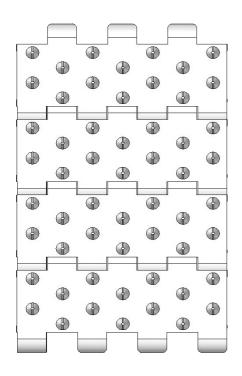
sweet goods and other industries that handle products requiring drainage and

small openings.

	Sprocket Data									
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bo	re	Squar	e bore		
					mm	in.	mm	in.		
6	59	50	41	20	20					
12	106	97	88	20	20/25/30/40	3/4/1/11//4	40	1 ½		
20	170	161	152	35	25/30/40	3/4/1/11/4	40/60	1½/2½		







	Belt data	
Materials	Max. belt pull	Belt weight
	kg/m of width	kg/m²
Polyethylene (PE)	550	5,5
Polypropylene (PP)	650	5,5
Polyacetal (POM)	1050	8

Belt surface: Structure top with 3 mm cones.

Open area: Closed.

Strength: An ideal choice for light transportation. Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

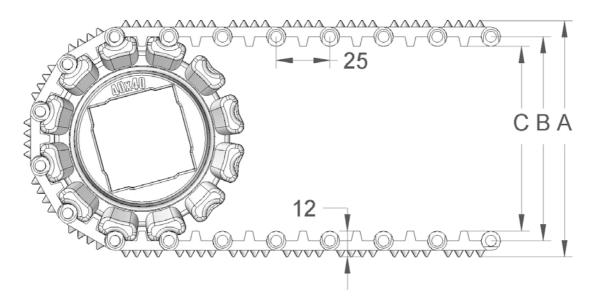
Accessories: 25 and 50 mm flights, 25 and 50 mm side

guards. Modules can be supplied with a

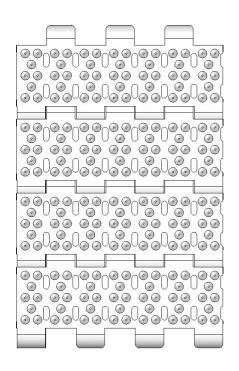
moulded indent of 40 mm.

Application: Seafood, red meat, vegetables etc.

	Sprocket Data								
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bor	·e	Square	e bore	
					mm	in.	mm	in.	
6	65	50	41	20	20				
12	112	97	88	20	20/25/30/40	34/1/11/4	40	1 1/2	
20	176	161	152	35	25/30/40	3/4/1/11//	40/60	1½/2½	







	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Polyethylene (PE)	550	5,5
Polypropylene (PP) Polyacetal (POM)	650 1050	5,5 8

Belt surface: Structure top with 3 mm cones. Open area: 7 %. Biggest opening 2 x 5 mm.

Strength: An ideal choice for light transportation. Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

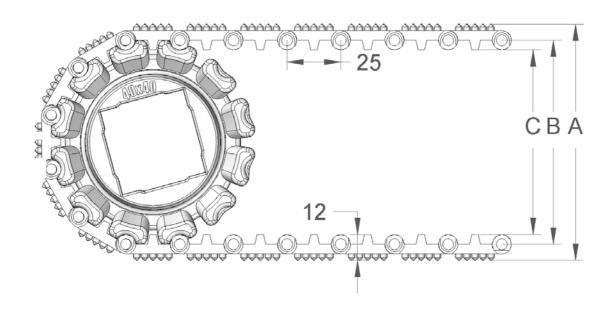
Accessories: 25 and 50 mm flights, 25 and 50 mm side

guards. Modules can be supplied with a

moulded indent of 40 mm.

Application: Seafood, red meat, vegetables etc.

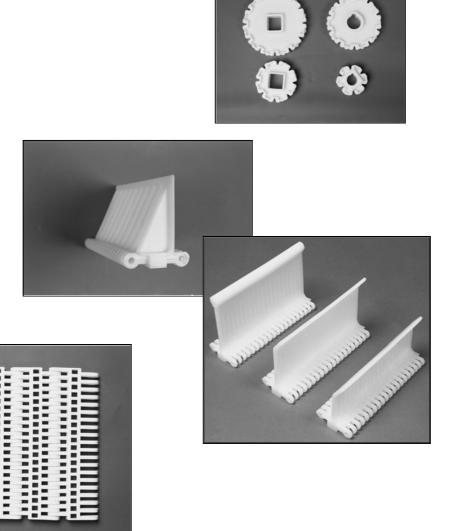
	Sprocket Data								
No. of teeth	A= Outside diameter	B= Pitch diameter	C= Inside diameter	Hub width:	Round bo	re	Squar	e bore	
					mm	in.	mm	in.	
6	65	50	41	20	20				
12	112	97	88	20	20/25/30/40	3/4/1/11/4	40	1 ½	
20	176	161	152	35	25/30/40	3/4/1/11/4	40/60	1½/2½	



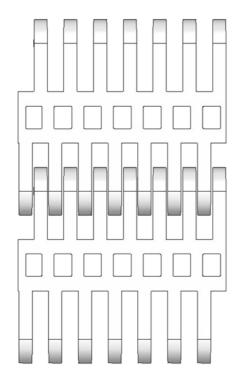


4. Belt S50

Pitch 50 mm







	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Polyethylene (PE)	1840	8
Polypropylene (PP)	2795	8
Polyacetal (POM)	4200	12

Belt surface: Open belt with a smooth surface.
Open area: 27 %. Biggest opening 5 x 9 mm.
Strength: The right belt for heavy applications.
Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Good. FSIS

Accessories: 25, 50, 75 and 100 mm flights. Scoop and bent

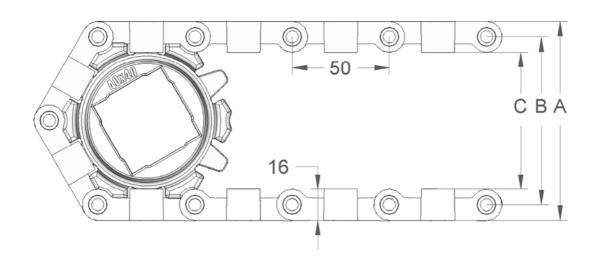
flights. 75 and 150 mm supported flights. 50, 75, 100 and 150 mm side guards. 50 mm comb flights, friction top. Hold-down. Flights fitted with a round

top.

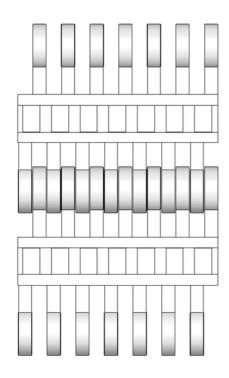
Application: Seafood, wood, bakery, meat, vegetables, poultry

and heavy duty transportation in general.

	Sprocket Data										
No. of diameter								-e			
					mm	in.	mm	in.			
6	105	89	73	20	20/25/30/40	3/4/1/11/4	25 /40	11/2			
8	138	122	106	35	25/30/40	1/11/4	25/40	1 ½			
10	172	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½			
12	205	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½			
16	270	254	238	40	60/80		40/50/60/55/80				







	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Polyethylene (PE)	1740	7
Polypropylene (PP) Polyacetal (POM)	2300 3450	7 10

Belt surface: Open belt with ribs across (height = 4 mm)

Open area: 27 %. Biggest opening 5 x 9 mm.

Strength: The right belt for heavy transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Good. FSIS

Accessories: 25, 50, 75 and 100 mm flights. Scoop and bent

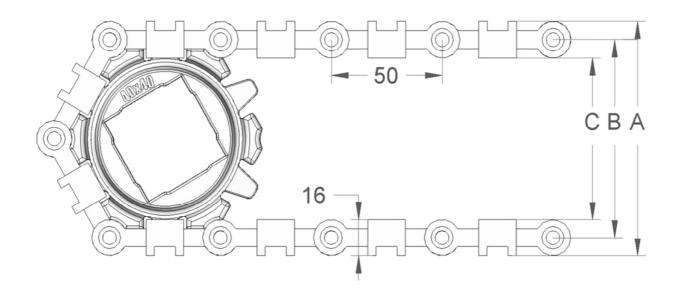
flights. 75 and 150 mm supported flights. 50, 75, 100 and 150 mm side guards. 50 mm comb flights. Friction top. Hold-down. Flights fitted with

a round top.

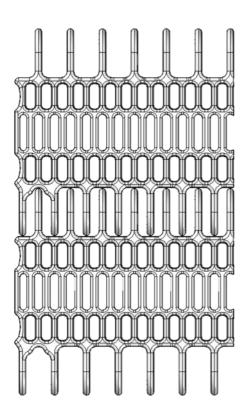
Application: Seafood, bakery, meat, vegetables, poultry and

heavy duty transportation in general.

	Sprocket Data									
No. of A= Outside B= Pitch- C= Inside- diameter diameter Hub width: Round bore Square by							bore			
					mm	in.	mm	in.		
6	105	89	73	20	20/25/30/40	34/1/11/4	25 /40	1 ½		
8	138	122	106	35	25/30/40	1/11/4	25/40	1 ½		
10	172	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½		
12	205	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½		
16	270	254	238	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½		







Belt data					
Materials	Max. belt pull kg/m of width	Belt weight kg/m²			
Polyethylene (PE)	1200	6			
Polypropylene (PP)	1560	6			
Polyacetal (POM)	2340	8			

Belt surface: Open belt with a smooth surface. Open area: 61 %. Biggest opening 3,5 x 11 mm.

Strength: The right belt for medium-heavy transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

Accessories: 25, 50, 75 and 100 mm flights. 50, 75, 100 and

150 mm side guards. Hold-down. Scoop and bent

flights. Flights fitted with a round top.

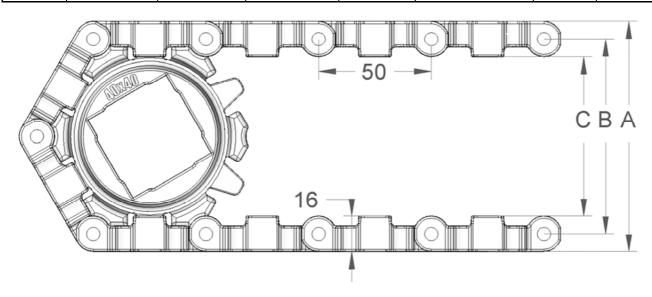
Application: Cooling/freezing belts in the seafood, bakery,

vegetables, meat industries and other

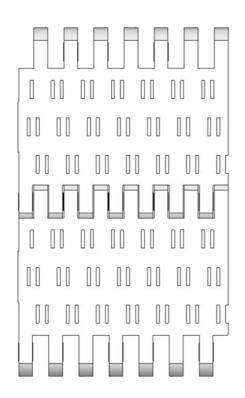
industries, where large air-flow combined with a

small open area is required.

	Sprocket Data									
No. of A= Outside B= Pitch- C= Inside- diameter diameter Hub width: Round bore Square bo								bore		
					mm	in.	mm	in.		
6	105	89	73	20	20/25/30/40	34/1/11/4	25 /40	11/2		
8	138	122	106	35	25/30/40	1/11/4	25/40	1 ½		
10	172	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½		
12	205	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½		
16	270	254	238	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½		







	Belt data	
Materials	Max. belt pull	Belt weight
	kg/m of width	kg/m²
Polyethylene (PE)	1790	7
Polypropylene (PP)	2400	7
Polyacetal (POM)	3600	10

Belt surface: Perforated flat top.

Open area: 9 %. Biggest opening 1 x 6 mm.

Strength: The right belt for medium-heavy transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

Accessories: 25, 50, 75 and 100 mm flights. Scoop and bent

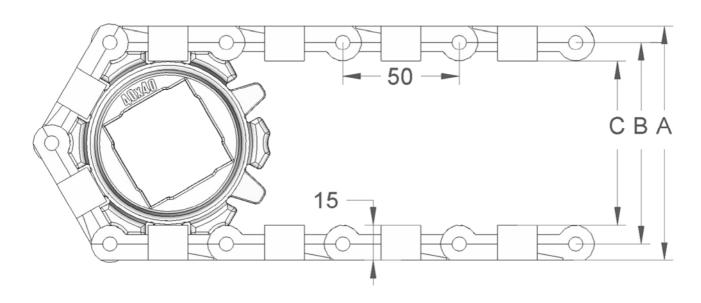
flights. 75 and 150 mm supported flights. 50, 75, 100 and 150 mm side guards. 50 mm comb flights. Hold-down. Flights fitted with a round top. Friction

top.

Application: Goods and other industries that handle products

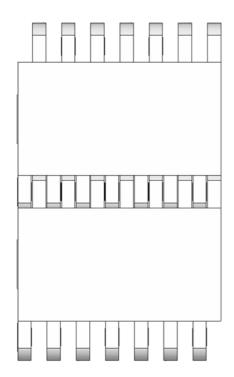
requiring drainage and very small openings.

	Sprocket Data								
No. of A= Outside B= Pitch- C= Inside- Hub width: Round bore Square								bore	
					mm	in.	mm	in.	
6	103	89	73	20	20/25/30/40	34/1/11/4	25 /40	11/2	
8	136	122	106	35	25/30/40	1/11/4	25/40	1 ½	
10	170	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½	
12	203	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½	
16	268	254	238	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½	





S50-600F/2 component



	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Copolymer	2200	9,5

Belt surface: Closed belt with a friction surface.

Open area: Closed.

Strength: The right belt for medium-heavy transportation.

Colour: Nat/white Cleanability: Good.FSIS

Accessories: 25, 50, 75 and 100 mm flights. Scoop and bent

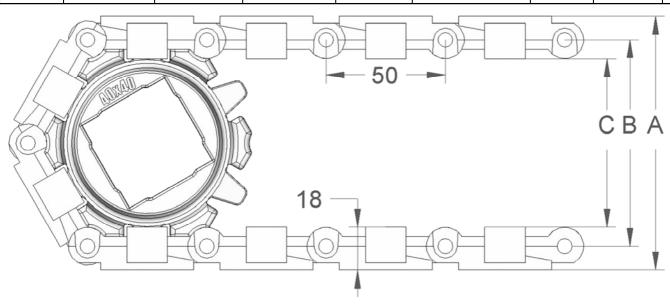
flights. 75 and 150 mm supported flights. 50, 75,

100 and 150 mm side guards. 50 mm comb flights. Flights fitted with a round top.

Application: Transport of goods on a slightly inclined

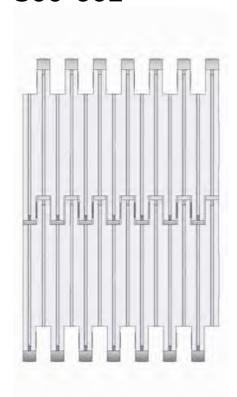
conveyor.

	Sprocket Data										
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter Hub width: Round bore		Round bore Squa		Square	bore			
					mm	in.	mm	in.			
6	109	89	73	20	20/25/30/40	3/4/1/11/4	25 /40	1 1/2			
8	142	122	106	35	25/30/40	1/11/4	25/40	1 ½			
10	176	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½			
12	209	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½			
16	274	254	238	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½			





S50-602



	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Polyethylene (PE)	1790	8
Polypropylene (PP)	2400	8
Polyacetal (POM)	3600	11

Belt surface: Flat top with 3 mm ribs.

Open area: Closed.

Strength: The right belt for medium-heavy transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

Accessories: 25, 50, 75 and 100 mm flights. Scoop and bent

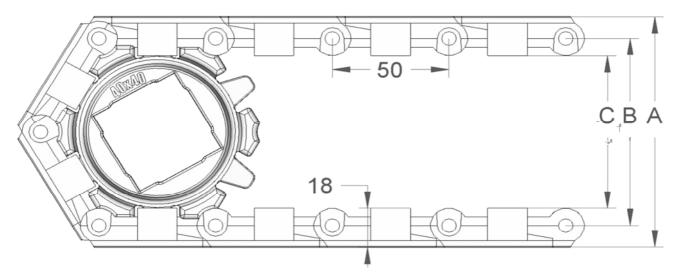
flights. 75 and 150 mm supported flights. 50, 75, 100 and 150 mm side guards. 50 mm comb flights.

Friction top. Flights fitted with a round top.

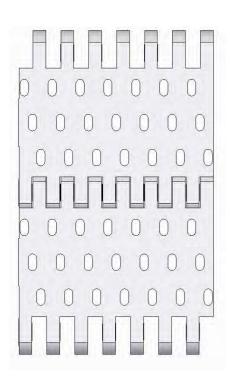
Application: Dairy, vegetables, poultry, snacks, sweet goods and

other industries that handle small products.

	Sprocket Data											
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter	Hub width:	Round bore		Square bore					
					mm	in.	mm	in.				
6	109	89	73	20	20/25/30/40	3/4/1/11/4	25 /40	1 1/2				
8	142	122	106	35	25/30/40	1/11/4	25/40	1 ½				
10	176	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½				
12	209	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½				
16	274	254	238	35	25/30/40/50/60	1/1¼	25/40/60	1½/2½				







	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Polyethylene (PE)	1790	7
Polypropylene (PP)	2400	7
Polyacetal (POM)	3600	11

Belt surface: Perforated flat top.

Open area: 10%. Biggest opening 3 x 6 mm. Strength: The right belt for medium-heavy-

transportation

Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

Accessories: 25, 50, 75 and 100 mm flights. Scoop and

bent flights. 75 and 150 mm supported flights. 50, 75, 100 and 150 mm side guards. 50 mm comb flights. Friction top. Flights fitted with a

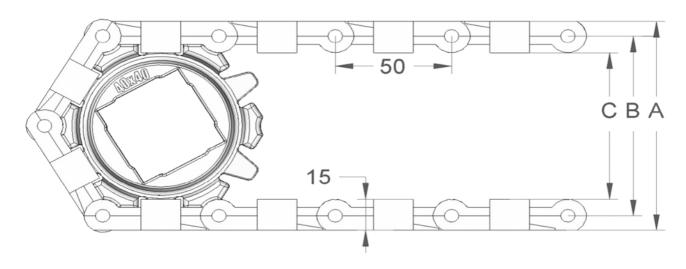
round top.

Application: Dairy, vegetables, poultry, snacks, sweet

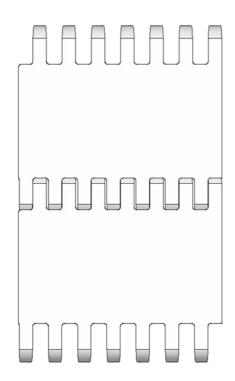
goods and other industries that handle products requiring drainage and small

openings.

	Sprocket Data										
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter	Hub width:	Round bore		Square	bore			
					mm	in.	mm	in.			
6	103	89	73	20	20/25/30/40	34/1/11/4	25 /40	1 ½			
8	136	122	106	35	25/30/40	1/11/4	25/40	1 ½			
10	170	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½			
12	203	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½			
16	268	254	238	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½			







	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Polyethylene (PE)	1790	7
Polypropylene (PP)	2400	7
Polyacetal (POM)	3600	11

Belt surface: Flat top. Open area: Closed.

Strength: The right belt for medium-heavy transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

Accessories: 25, 50, 75 and 100 mm flights. Scoop and bent

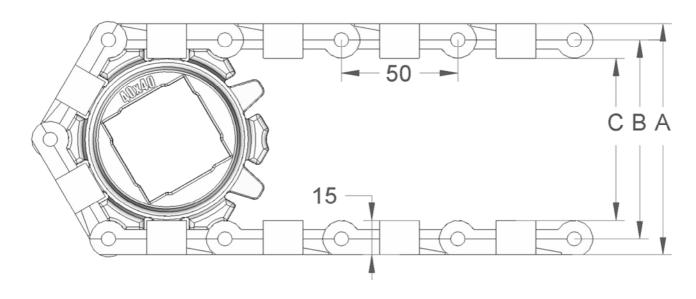
flights. 75 and 150 mm supported flights. 50, 75, 100 and 150 mm side guards. 50 mm comb flights. Friction top. Flights fitted with a round

top.

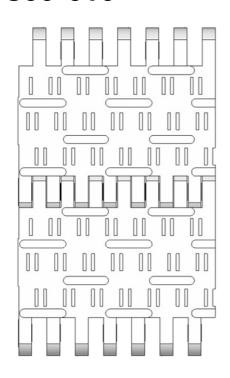
Application: Dairy, vegetables, poultry, snacks, sweet goods

and other industries that handle small products.

	Sprocket Data										
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter	THub width: I Round hore I Squa		Round bore		bore			
					mm	in.	mm	in.			
6	103	89	73	20	20/25/30/40	34/1/11/4	25 /40	1 ½			
8	136	122	106	35	25/30/40	1/11/4	25/40	1 ½			
10	170	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½			
12	203	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½			
16	268	254	238	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½			







	Belt data	
Materials	Max. belt pull kg/m of width	Belt weight kg/m²
Polyethylene (PE)	1790	7
Polypropylene (PP)	2400	7
Polyacetal (POM)	3600	11

Belt surface: Perforated flat top with 1 mm flights.

Open area: 9%. Biggest opening 1 x 6 mm.

Strength: The right belt for medium-heavy transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

Accessories: 25, 50, 75 and 100 mm flights. Scoop and bent

flights. 75 and 150 mm supported flights. 50, 75, 100 and 150 mm side guards. 50 mm comb flights.

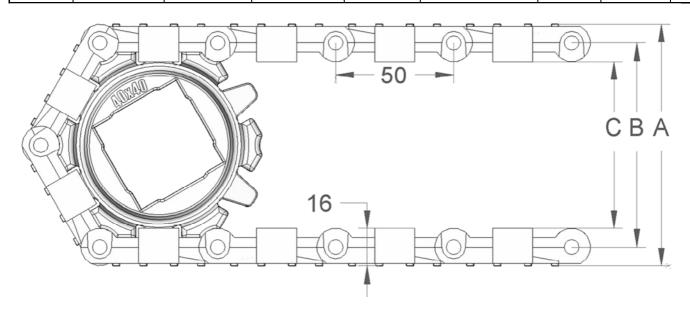
Friction top. Flights fitted with a round top.

Application: Dairy, vegetables, poultry, snacks, sweet goods and

other industries that handle products requiring

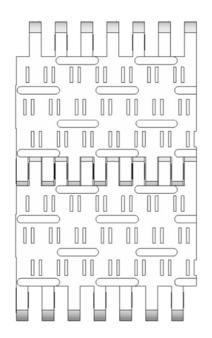
drainage and small openings.

	Sprocket Data											
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter	Hub width:	Round bore		Square	bore				
					mm	in.	mm	in.				
6	105	89	73	20	20/25/30/40	34/1/11/4	25 /40	1 ½				
8	138	122	106	35	25/30/40	1/11/4	25/40	1 ½				
10	172	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½				
12	205	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½				
16	270	254	238	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½				



S50-630





	Belt data	
Materials	Max. belt pull	Belt weight
	kg/m of width	kg/m ²
Polyethylene (PE)	1790	7
Polypropylene (PP)	2400	7
Polyacetal (POM)	3600	11

Belt surface: Perforated flat top with 3 mm flights.

Open area: 9%. Biggest opening 1 x 6 mm.

Strength: The right belt for medium-heavy transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

Accessories: 25, 50, 75 and 100 mm flights. Scoop and bent flights.

75 and 150 mm supported flights. 50, 75, 100 and 150 mm side guards. 50 mm comb flights. Friction top.

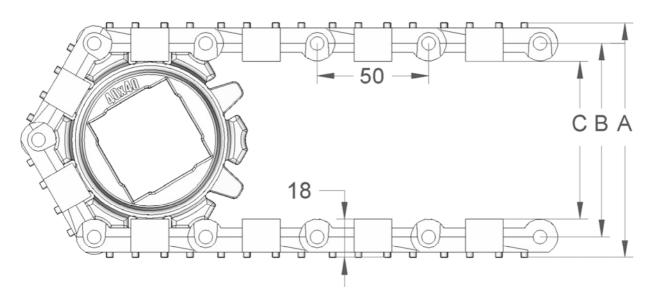
Flights fitted with a round top.

Application: Dairy, vegetables, poultry, snacks, sweet goods and

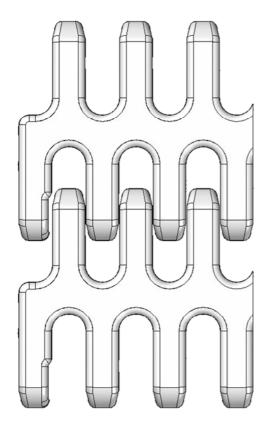
other industries that handle products requiring

drainage and small openings.

	Sprocket Data											
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter Hub width:		Round bore		Square	bore				
					mm	in.	mm	in.				
6	109	89	73	20	20/25/30/40	34/1/11/4	25 /40	1 1/2				
8	142	122	106	35	25/30/40	1/11/4	25/40	1 ½				
10	176	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½				
12	209	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½				
16	274	254	238	35	25/30/40/50/60	1/1¼	25/40/60	1½/2½				







Belt data							
Materials	Max. belt pull	Belt weight					
	kg/m of width	kg/m²					
Polyethylene (PE)	1200	7					
Polypropylene (PP)	1400	7					
Polyacetal (POM)	2060	10					

Belt surface: Open belt with a smooth surface
Open area: 24%. Biggest opening 10 x 12 mm
Strength: The right belt for medium-heavy

transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

Accessories: 25, 50, 75 and 100 mm flights. 75 and 150

mm supported flights. Scoop and bent flights. 50, 75, 100 and 150 mm side guards. Hold-

down.

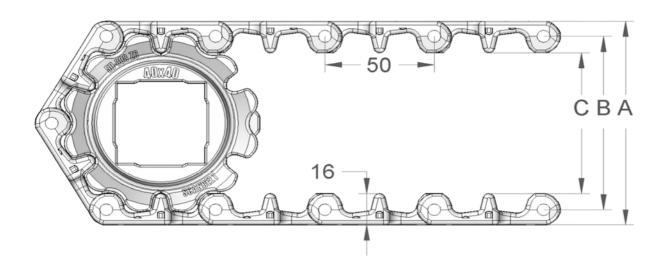
Flights fitted with a round top.

Application: Medium-heavy duty transportation, Red meat,

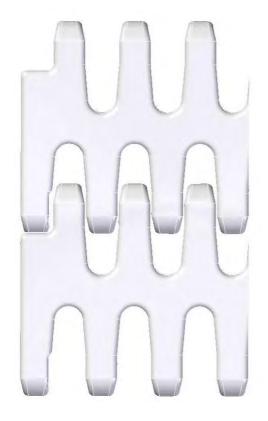
poultry, seafood and transportation of raw

materials (for further processing).

	Sprocket Data											
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter	Hub width:	Round bore		Square	bore				
					mm	in.	mm	in.				
6	102	89	73	20	20/25/30/40	34/1/11/4	25 /40	1 1/2				
8	136	122	106	35	25/30/40	1/11/4	25/40	1 ½				
10	171	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½				
12	203	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½				







Belt data							
Materials	Max. belt pull	Belt weight					
	kg/m of width	kg/m²					
Polyethylene (PE)	1200	7					
Polypropylene (PP)	1400	7					
Polyacetal (POM)	2060	10					

Belt surface: Open belt with a smooth surface
Open area: 24%. Biggest opening 10 x 12 mm
Strength: The right belt for medium-heavy

transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue. Cleanability: Excellent. FSIS. Rod access 40%.

Accessories: 25, 50, 75 and 100 mm flights. 75 and 150

mm supported flights. Scoop and bent flights. 50, 75, 100 and 150 mm side guards. Hold-

down.

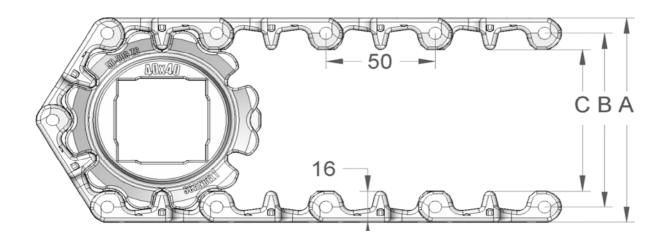
Flights fitted with a round top.

Application: Medium-heavy duty transportation, Red meat,

poultry, seafood and transportation of raw

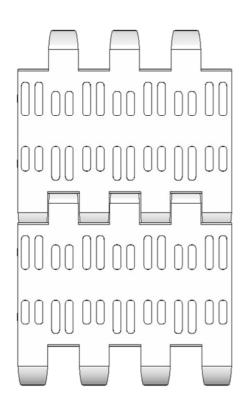
materials (for further processing).

	Sprocket Data											
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter Hub width: Round bore Squ		Round bore		Square	bore				
					mm	in.	mm	in.				
6	102	89	73	20	20/25/30/40	34/1/11/4	25 /40	1 ½				
8	136	122	106	35	25/30/40	1/11/4	25/40	1 ½				
10	171	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½				
12	203	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½				





S50-806



Belt data							
Materials	Max. belt pull	Belt weight					
	kg/m of width	kg/m²					
Polyethylene (PE)	1200	7					
Polypropylene (PP)	1400	7					
Polyacetal (POM)	2060	10					

Belt surface: Open belt with a smooth surface
Open area: 20%. Biggest opening 2.5 x 11 mm
Strength: The right belt for medium-heavy

transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

Accessories: 25, 50, 75 and 100 mm flights. 75 and 150 mm

supported flights. Scoop and bent flights. 50, 75, 100 and 150 mm side guards. Hold-down.

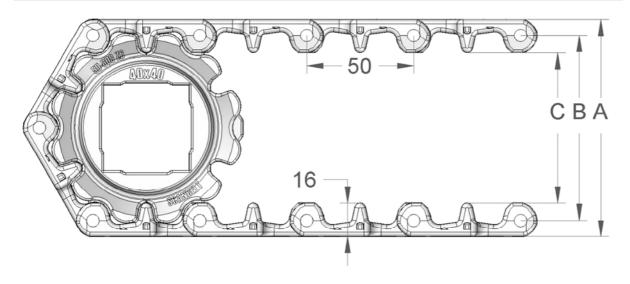
Flights fitted with a round top.

Application: Medium-heavy duty transportation, Dairy,

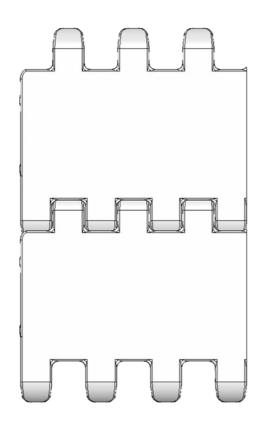
vegetables, poultry, snacks, sweet goods and other industries that handle products requiring

drainage and small openings.

	Sprocket Data											
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter	Hub width:	Round bore		Square	bore				
					mm	in.	mm	in.				
6	102	89	73	20	20/25/30/40	34/1/11/4	25 /40	11/2				
8	136	122	106	35	25/30/40	1/11/4	25/40	1 ½				
10	171	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½				
12	205	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½				







Belt data							
Materials	Max. belt pull	Belt weight					
	kg/m of width	kg/m²					
Polyethylene (PE)	1200	8					
Polypropylene (PP)	1400	8					
Polyacetal (POM)	2060	12					

Belt surface: Flat top. Open area: Closed.

Strength: The right belt for medium-heavy

transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

Accessories: 25, 50, 75 and 100 mm flights. 75 and 150 mm

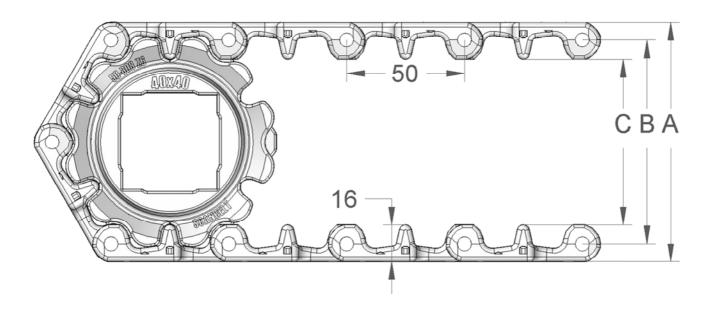
supported flights. Scoop and bent flights. 50, 75, 100 and 150 mm side guards. Hold-down.

Flights fitted with a round top.

Application: Red meat, seafood, poultry, dairy and vegetable

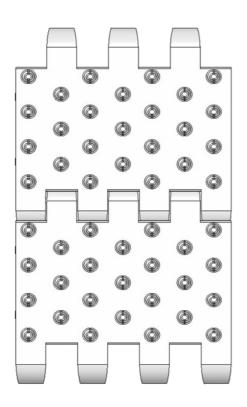
industries and trimming lines in general.

	Sprocket Data											
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter	Hub width:	Round bore		Square	bore				
					mm	in.	mm	in.				
6	102	89	73	20	20/25/30/40	34/1/11/4	25 /40	1 ½				
8	136	122	106	35	25/30/40	1/11/4	25/40	1 ½				
10	171	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½				
12	205	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½				



S50-830





Belt data							
Materials	Max. belt pull kg/m of width	Belt weight kg/m²					
Polyethylene (PE)	1200	8					
Polypropylene (PP)	1400	8					
Polyacetal (POM)	2060	12					

Belt surface: Structure top with 3 mm cones.

Open area: Closed.

Strength: The right belt for medium-heavy transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

Accessories: 25, 50, 75 and 100 mm flights. 75 and 150 mm

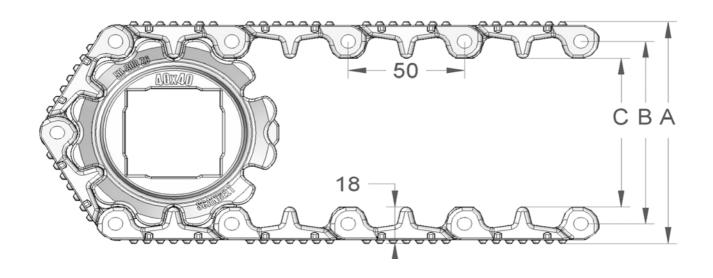
supported flights. Scoop and bent flights. 50, 75,

 $100\ \mathrm{and}\ 150\ \mathrm{mm}$ side guards. Hold-down.

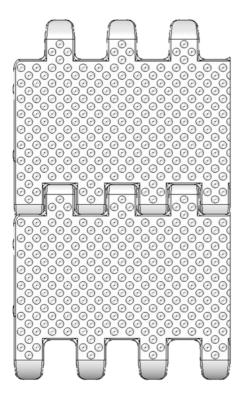
Flights fitted with a round top.

Application: Seafood, red meat, vegetable etc.

	Sprocket Data											
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter Hub width: Round bore Squa		Round bore		Square	bore				
					mm	in.	mm	in.				
6	108	89	73	20	20/25/30/40	34/1/11/4	25 /40	1 ½				
8	142	122	106	35	25/30/40	1/11/4	25/40	1 ½				
10	176	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½				
12	209	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½				







Belt data							
Materials	Belt weight kg/m²						
Polyethylene (PE)	1200	8					
Polypropylene (PP)	1400	8					
Polyacetal (POM)	2060	12					

Belt surface: Structure top with 3 mm cones.

Open area: Closed

Strength: The right belt for medium-heavy transportation.

Material/colour: PE/nat, PP/white and grey. POM/blue.

Cleanability: Excellent. FSIS.

Accessories: 25, 50, 75 and 100 mm flights. 75 and 150 mm

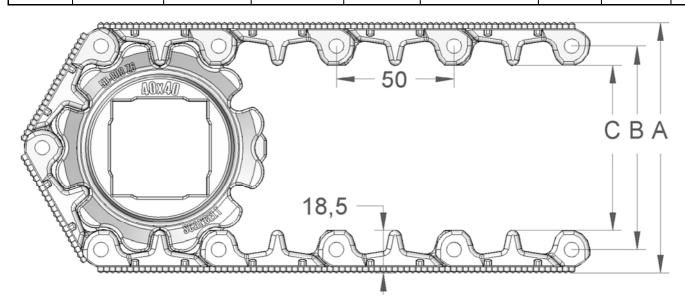
supported flights. Scoop and bent flights. 50, 75,

100 and 150 mm side guards. Hold-down.

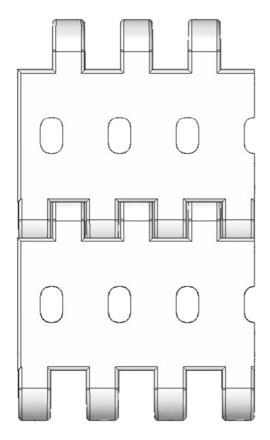
Flights fitted with a round top.

Application: Seafood, red meat, vegetable, sweets etc.

	Sprocket Data											
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter	Hub width:	Round bore		Square	bore				
					mm	in.	mm	in.				
6	108	89	73	20	20/25/30/40	3/4/1/11/4	25 /40	1 ½				
8	142	122	106	35	25/30/40	1/11/4	25/40	1 ½				
10	176	156	140	35	25/30/40	1/11/4	25/40/60	1½/2½				
12	209	189	173	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½				







Belt data							
Materials	Max. belt pull	Belt weight kg/m²					
Polyethylene (PE)	kg/m of width 4800	ку/m 13					
Polypropylene (PP)	6000	13					
Polyacetal (POM)	10250	19					

Belt surface: Perforated flat top.

Open area: 13 %. Biggest opening 7 x 11 mm.

Strength: The right belt for very heavy applications.

Material/colour: PP, POM/black.

Cleanability: Good.

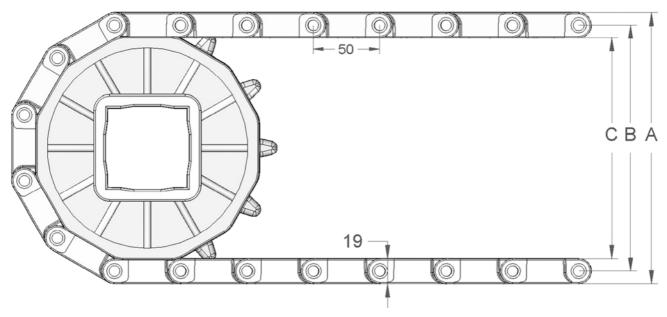
Accessories: 25 mm flight, 50 mm finger flight

Application: Very heavy transportation.

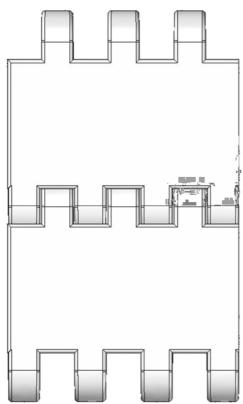
Assembling belt for cars.

Truck loading systems.

	Sprocket Data											
No. of teeth	A= Outside B= Pitch- C= Inside- th diameter diameter			Hub width:	Round b	ore	Square I	oore				
					mm	in.	mm	in.				
12	210	191	172	40	40/60		60/80/90					
16	273	254	235	40	40/60		60/80/90					
18	307	288	269	40	40/60		60/80/90					







Belt data							
Materials	Max. belt pull kg/m of width	Belt weight kg/m²					
Polyethylene (PE)	4800	13					
Polypropylene (PP)	6000	14					
Polyacetal (POM)	10250	21					

Belt surface: Closed flat top.

Open area: Closed.

Strength: The right belt for very heavy

applications.

Material/colour: PP, POM/black.

Cleanability: Good.

Accessories: 25 mm flight, 50 mm finger flight

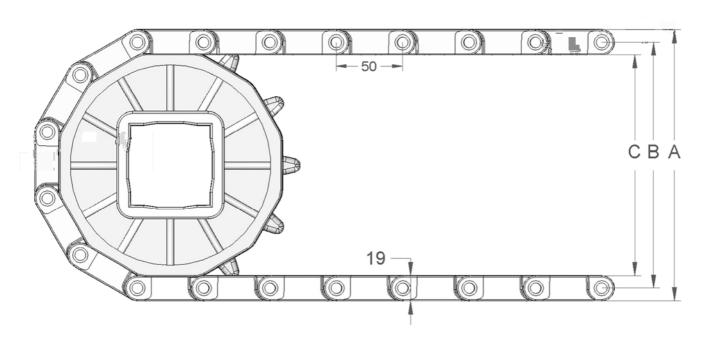
Application: Very heavy transportation.

Assembling belt for cars.
Truck loading systems.

Standard widths: Increments of 20 mm, e.g. 100, 120

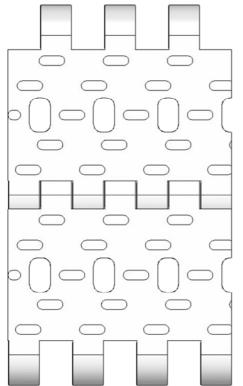
mm etc

	Sprocket Data											
No. of teeth	A= Outside B= Pitch- C= Inside- Hub width: Round bore Square I						oore					
					mm	in.	mm	in.				
12	210	191	172	40	40/60		60/80/90					
16	273	254	235	40	40/60		60/80/90					
18	307	288	269	40	40/60		60/80/90					





S50-930



Belt data							
Materials	Max. belt pull	Belt weight					
	kg/m of width	kg/m²					
Polyethylene (PE)	4800	14					
Polypropylene (PP)	6000	14					
Polyacetal (POM)	10250	21					

Belt surface: Perforated flat top with 3 mm flights. Open area: 13 %. Biggest opening 7 x 11 mm.

Strength: The right belt for very heavy applications.

Material/colour: PP, POM/black.

Cleanability: Good.

Accessories: 25 mm flight, 50 mm finger flight

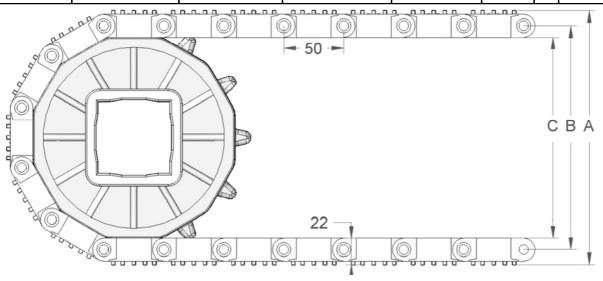
Application: Very heavy transportation.

Assembling belt for cars. Truck loading systems.

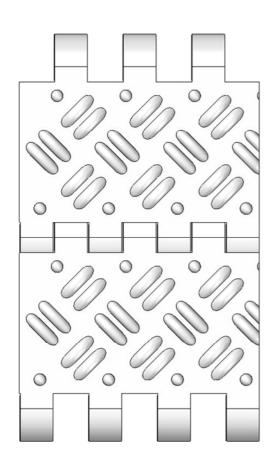
Standard widths: Increments of 20 mm, e.g. 100, 120 mm

etc.

Sprocket Data											
No. of teeth	A= Outside diameter				Square I	oore					
					mm	in.	mm	in.			
12	216	191	172	40	40/60		60/80/90				
16	279	254	235	40	40/60		60/80/90				
18	313	288	269	40	40/60		60/80/90				







Belt data							
Materials	Max. belt pull kg/m of width	Belt weight kg/m²					
Polyethylene (PE)	4800	14					
Polypropylene (PP)	6000	14					
Polyacetal (POM)	10250	21					

Belt surface: Closed with 3 mm non skid pattern.

Open area: Closed.

Strength: The right belt for very heavy applications.

Material/colour: PP, POM/black.

Cleanability: Good.

Accessories: 25 mm flight, 50 mm finger flight

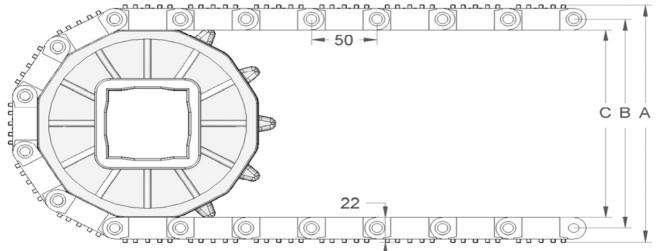
Application: Very heavy transportation.

Assembling belt for cars. Truck loading systems.

Standard widths: Increments of 20 mm, e.g. 100, 120 mm

etc.

	Sprocket Data											
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter	Hub width:	Round b	Round bore		oore				
					mm	in.	mm	in.				
12	216	191	172	40	40/60		60/80/90					
16	279	254	235	40	40/60		60/80/90					
18	313	288	269	40	40/60		60/80/90					



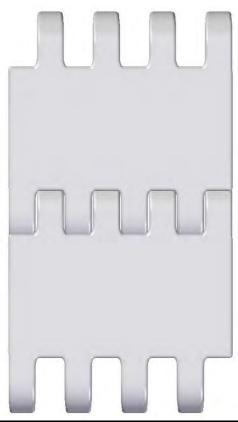


5. Belt S75

Pitch 75 mm







Belt data								
Materials	Max. belt pull kg/m of width	Belt weight kg/m²						
Polypropylen (PP)	10.000	22						
Polyacetal (POM)	16.000	33						

Belt surface: Closed flat top.

Open area: Closed.

Strength: The right belt for very heavy

applications.

Material/colour: PP, POM/black & Yellow.

Cleanability: Good.

Accessories: 50 mm finger flight. Side Guards

40mm.

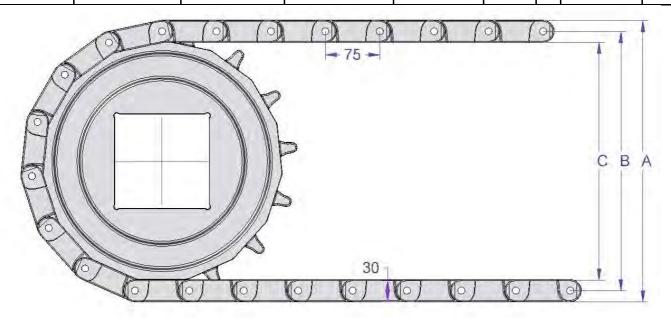
Application: Very heavy transportation.

Assembling belt for cars.
Truck loading systems.

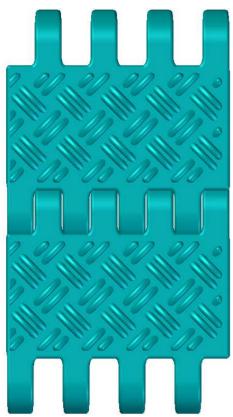
Standard widths: Increments of 25 mm, e.g. 100, 125

mm etc

	Sprocket Data											
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter	Hub width:	Round b	ore	Square I	oore				
upon request					mm	in.	mm	in.				
12	310	280	250	40	40/60		60/80/90					







Belt data								
Materials	Max. belt pull kg/m of width	Belt weight kg/m²						
Polypropylen (PP) Polyacetal (POM)	10.000 16.000	22 33						
Folyacelal (POM)	10.000	33						

Belt surface: Closed with 3 mm non skid pattern.

Open area: Closed.

Strength: The right belt for very heavy applications.

Material/colour: PP, POM/black & Yellow.

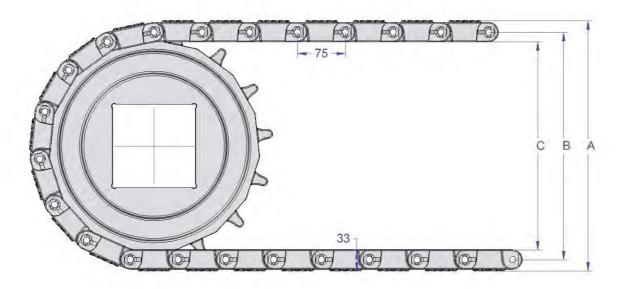
Cleanability: Good.

Accessories: 50 mm finger flight. Side Guards 40mm.

Application: Very heavy transportation.
Assembling belt for cars.

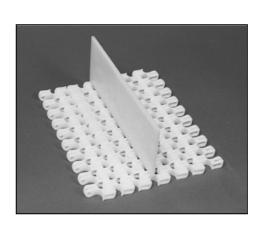
Truck loading systems.

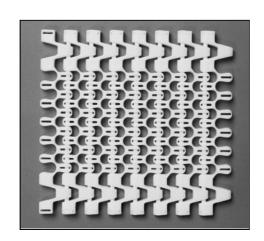
Sprocket Data										
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter	Hub width:	Round b	ore	Square I	oore		
upon request					mm	in.	mm	in.		
12	314	280	250	40	40/60		60/80/90			



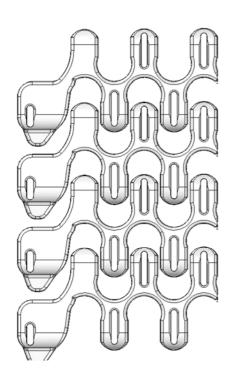


6. S25 Radius Belt









	Belt data.							
Belt material Rods Max. belt pull Belt weig (kg). (kg/m²).								
Polyacetal	PP	75	7					
(POM)	Nylon	120	7					
Polypropylene	PP	60	4.5					
(PP)	Nylon	90	4.5					

Belt surface: Smooth. Open area: 52 %

Strength: The ideal choice for medium weight.

Material/colour: POM, PP Cleanability: Good

Accessories: 25, 50 and 75 mm flights, friction top, hooks or

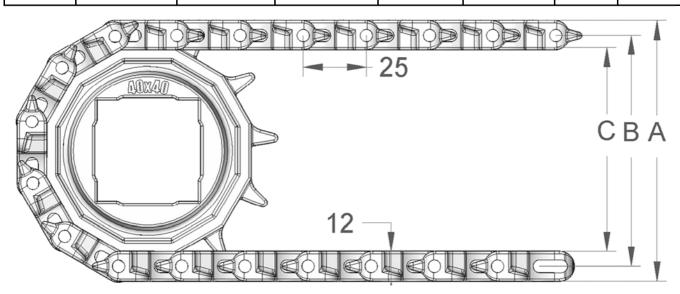
tabs

Application: Spiral coolers, radius conveyors. Contruction: Side modules, centre modules.

Width interval: Normally 20 mm. E.g. 210 mm, 230 mm etc.

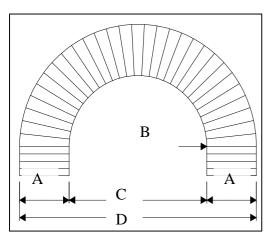
Inner radius: Collapse factor – see next page.

	Sprocket Data									
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter	Hub width:	Round b	ore	Square bo	ore		
					mm	in.	mm	in.		
8	78	66	54	20	20/25	3/4/1	25			
12	108	96	84	20	20/25/30/40	34/1/11/4	25/40	1 ½		
20	173	161	149	35	25/30/40	1/11/4	25/40	1 1/2		





S101 - 25 mm, Radius belt dimensions



A = Standard belt width

B = Inner radius

C = Inner diameter

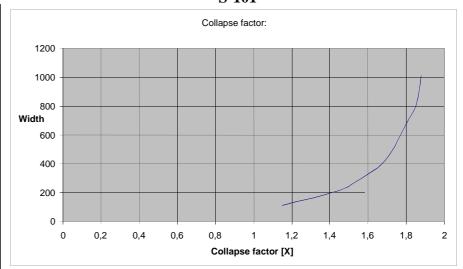
D = Outer diameter

Α	107	210	292	394	497	600	702	805	907	1011
В	150	300	450	650	850	1035	1250	1460	1680	1905
C	300	600	900	1300	1650	2020	2450	2870	3310	3760
D	514	1020	1484	2088	2644	3220	3854	4480	5124	5782

Standard width - Radius belts

June	iaia wiati		ius betts
Belt	Min.inner	Belt	Min.inner
width.	radius.	width.	radius
107	150	600	1035
128	180	620	1075
148	210	641	1115
169	240	662	1160
189	270	682	1205
210	300	702	1250
230	330	723	1290
251	370	744	1330
271	410	764	1370
292	450	785	1415
312	490	805	1460
333	530	826	1505
353	570	846	1550
374	610	867	1595
394	650	887	1635
414	690	907	1680
435	730	928	1725
455	770	949	1770
477	810	970	1815
497	850	990	1860
518	885	1011	1905
538	920	1114	2125
559	960	1217	2350
579	1000	1320	2595

S-101



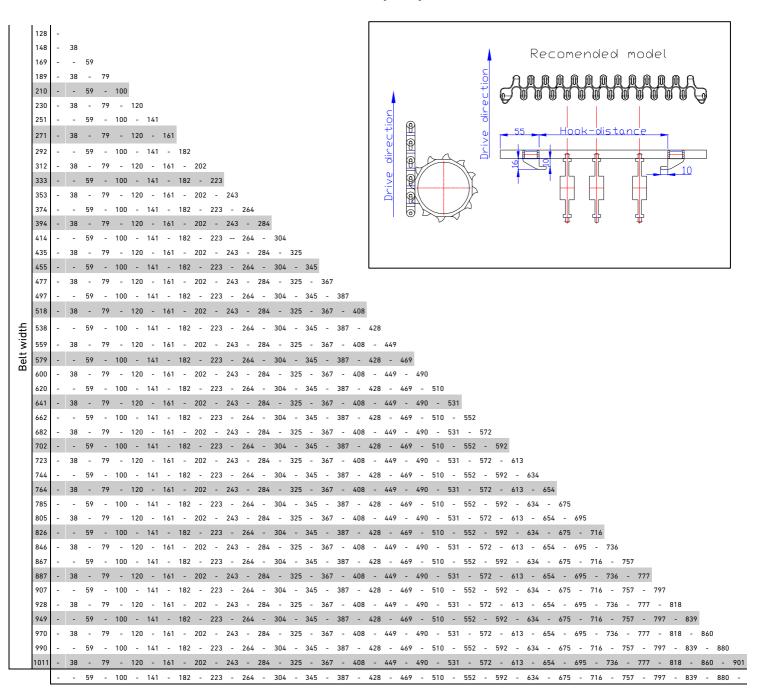
Collapse factor = min. inner radius belt width

Min. inner radius = collapse factor x belt width.

Hook measurement for \$101 Turned inside



S101 – Distance for hooks turned inside – (mm)

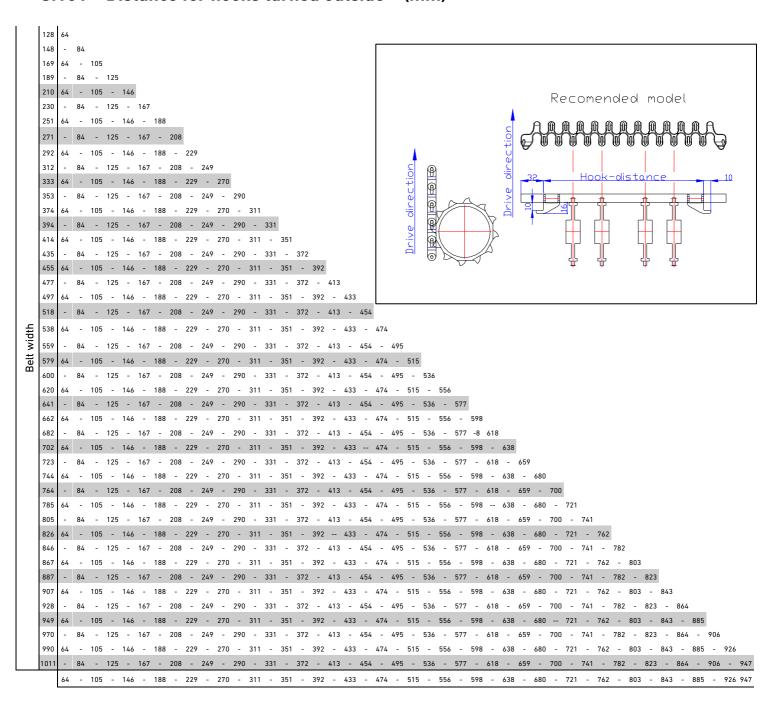


Hook Distance

Hook measurement for S101, Turned outside.



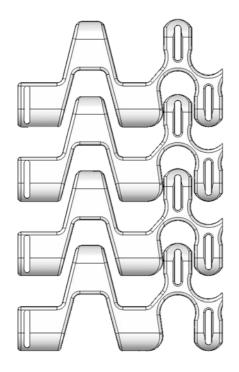
S.101 - Distance for hooks turned outside - (mm)



Hook Distance



S100R



	Belt data.							
Belt material	Rods	Max. belt pull	Belt weight					
		(kg).	(kg/m^2) .					
Polyacetal								
(POM)	PP	75	7					
	Nylon	110	7					
	Steel	150	12					
Polypropylene								
(PP)	PP	60	4.5					
	Nylon	90	4.5					
	Steel	100	10					

Belt surface: Smooth. Open area: 52 %

Strength: The ideal choice for medium weight.

Material/colour: POM, PP Cleanability: Good

Accessories: 25, 50 and 75 mm flights, 25 mm side guards,

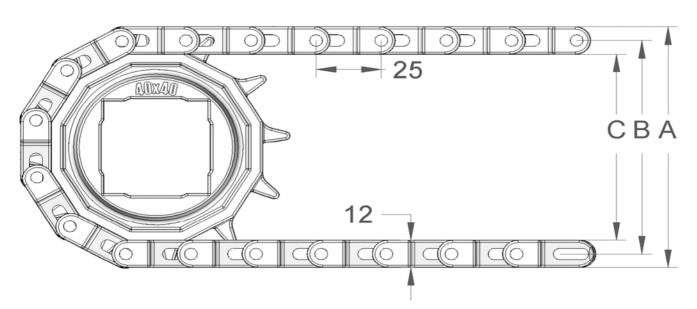
Friction top, hooks and steel reinforcements.

Application: Spiral coolers, radius conveyors. Construction: Side modules, centre modules.

Width interval: Normally 20 mm. E.g: 209 mm, 229 mm etc.

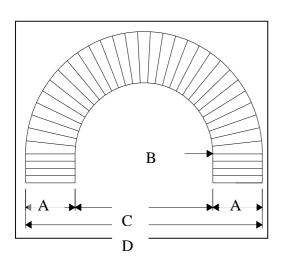
Inner radius: Collapse factor from 1,5

	Sprocket Data								
No. of teeth									
					mm	in.	mm	in.	
8	78	66	54	20	20/25	3/4/1	25/		
12	108	96	84	20	20/25/30/40	34/1/11/4	25/40	1 ½	
20	173	161	149	35	25/30/40	1/11/4	25/40	1 ½	



S100R - 25 mm, Radius belt dimensions.





Standard widt	h – Radius belts
S – 100R	S – 100R

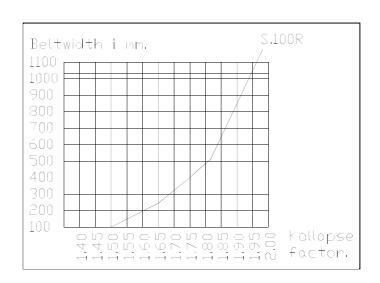
A = Standard belt width

B = Inner radius

C = Inner diameter

D = Outer diameter

S-100R



127	741
147	761
168	782
188	802
209	823
229	843
250	864
270	884
291	904
311	925
332	945
352	966
373	986
393	1007
413	1088
433	1190
453	1210
475	1294
495	1314
516	
536	
557	
577	
598	
618	
638	
659	
679	
699	
720	
i	

Α	209	270	373	475	577	679	782	884	986	1088 2143 4286 6462
В	343	451	645	845	1061	1263	1470	1697	1903	2143
С	686	902	1290	1690	2122	2526	2940	3394	3806	4286
D	1104	1442	2036	2640	3276	3884	4504	5162	5778	6462

Collapse factor = min. inner radius belt width

Min. inner radius = collapse factor x belt width

Hook measurement for S100R, Turned inside



S.100R - Distance for hooks turned inside - (mm)

Belt width Recomended model 127 147 R A A A A A A A A A A A 168 188 229 Hook-distance 10 9 291 311 332 - 120 - 161 99 - 140 - 181 352 - 120 - 161 - 201 413 120 - 161 - 201 - 242 433 99 - 140 - 181 - 221 - 262 - 120 - 161 - 201 - 242 - 282 453 140 - 181 - 221 - 262 - 304 475 120 201 - 242 - 282 -495 161 516 - 140 - 181 - 221 - 262 -120 - 161 -201 - 242 -282 536 - 181 - 221 - 262 - 304 - 345 - 386 140 557 - 120 - 161 - 201 - 242 - 282 - 324 - 365 - 406 577 - 140 - 181 - 221 - 262 - 304 - 345 - 386 - 427 598 - 161 - 201 242 - 282 324 618 638 - 140 - 181 - 221 - 262 - 304 - 345 - 386 - 427 - 467 659 120 - 161 - 201 - 242 - 282 - 324 - 365 - 406 140 - 181 - 221 - 262 - 304 - 345 - 386 - 427 679 161 - 201 - 242 - 282 - 324 - 365 - 406 - 447 -- 181 - 221 - 262 - 304 - 345 - 386 427 720 201 242 282 324 406 365 - 140 - 181 - 221 - 262 - 304 - 345 - 386 - 427 - 467 - 508 -161 - 201 - 242 - 282 - 324 406 447 802 - 181 - 221 - 262 - 304 - 345 - 386 427 467 508 120 - 161 - 201 - 242 - 282 - 324 - 365 - 406 - 447 - 488 - 528 -823 843 - 140 - 181 - 221 - 262 - 304 - 345 - 386 - 427 - 467 508 549 590 - 282 - 324 864 120 161 201 242 365 406 447 488 528 570 611 884 - 140 - 181 - 221 - 262 - 304 - 345 - 386 - 427 - 467 120 - 161 - 201 - 242 - 282 - 324 - 365 - 406 - 447 - 488 - 528 - 570 - 611 - 652 - 693 - 734 925 - 140 - 181 - 221 - 262 - 304 - 345 - 386 - 427 - 467 - 508 - 549 - 590 - 631 - 672 - 714 - 754 120 - 161 - 201 - 242 - 282 - 324 - 365 - 406 - 447 - 488 - 528 - 570 - 611 - 652 - 693 - 734 - 775 99 - 140 - 181 - 221 - 262 - 304 - 345 - 386 - 427 - 467 - 508 - 549 - 590 - 631 - 672 - 714 - 754 - 795 - 120 - 161 - 201 - 242 - 282 - 324 - 365 - 406 - 447 - 488 - 528 - 570 - 611 - 652 - 693 - 734 - 775 - 815

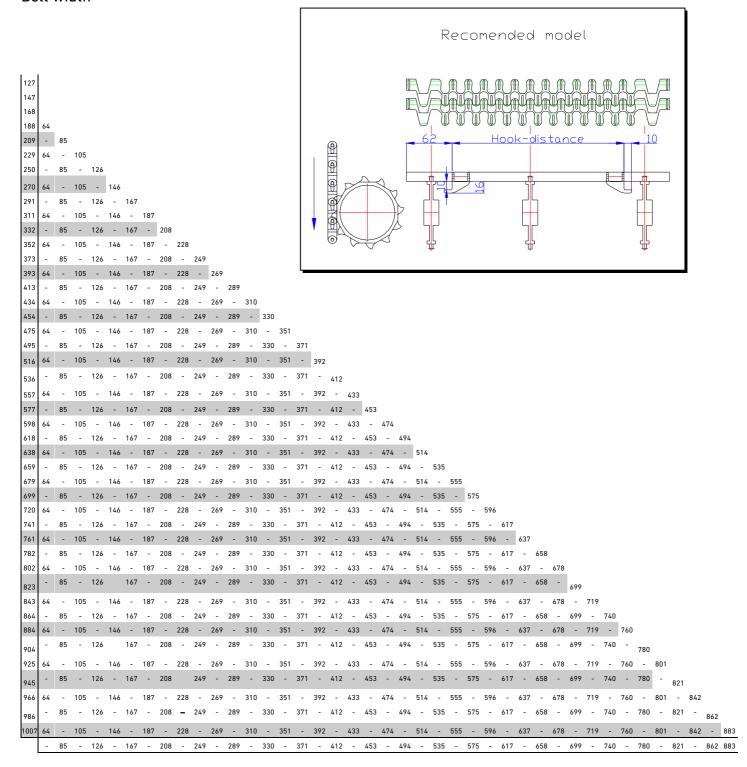
58 - 99 - 140 - 181 - 221 242 262 - 304 - 385 - 386 - 427 - 467 - 508 - 508 - 509 - 631 - 672 - 714 - 754 - 755 - 836 - 79 - 120 - 161 - 201 - 201 - 242 - 282 - 382 - 365 - 406 - 447 - 488 - 528 - 570 - 611 - 632 - 693 - 734 - 775 - 815 836



Hook measurement for S100R, Turned outside

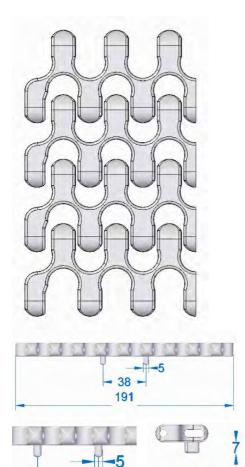
S100R - Distance for hooks turned outside - (mm)

Belt width



S101,Tracklink





	Belt data.					
Belt material	Rods	Max. belt pull Straight (kg).	Max. belt pull Curve (kg).	Belt weight (kg/m²).		
Polyacetal (POM)	Nylon	400	105	7		
Polypropylene (PP)	PP	250	70	4,5		

Belt surface: Smooth. Open area: 52 %

Strength: Ideal for medium weight curves.

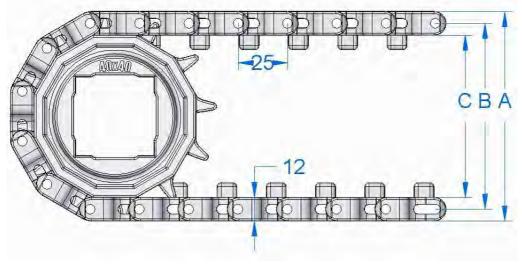
Material/colour: POM, PP Cleanability: Good

Accessories:

Application: Radius conveyors. Contruction: Single modules.

Inner radius: 335mm

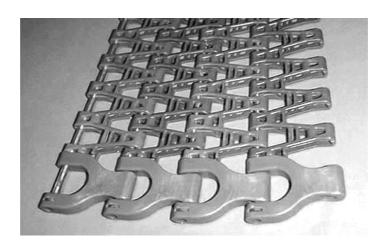
	Sprocket Data								
No. of teeth									
					mm	in.	mm	in.	
8	78	66	54	20	20/25	3/4/1	25	1 1/2	
12	108	96	84	20	20/25/30/40	34/1/11/4	25/40	1 ½	
20	173	161	149	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½	

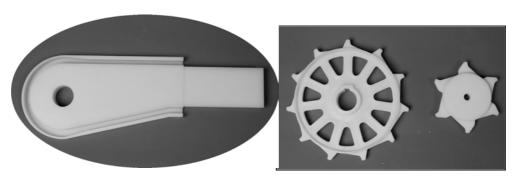




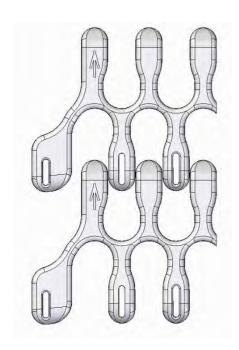
7. S50 Radius Belt

Pitch 50 mm









	Belt data.							
Belt material	Rods	Max. belt pull (kg).	Belt weight (kg/m²).					
Polyacetal	PP	205	8					
(POM)	Nylon	305	8					
Polypropylene	PP	Please contact						
(PP)	Nylon	MÄRTENS						

Belt surface: Smooth. Open area: 47 %

Strength: Ideal for heavy duty spirals and curves.

Material/colour: POM, PP Cleanability: Good

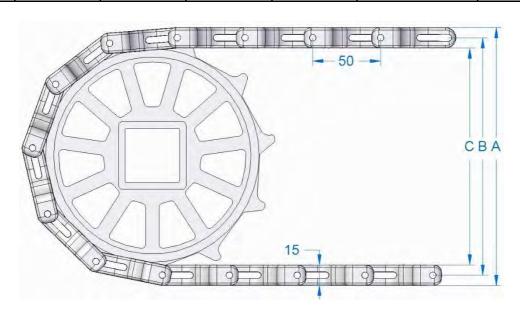
Accessories:

Application: Spiral coolers, radius conveyors. Contruction: Side modules, centre modules.

Width interval: Normally 20 mm. E.g: 210 mm, 230 mm etc.

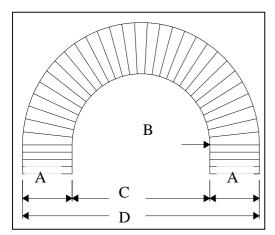
Inner radius: Please see next page.

	Sprocket Data										
No. of teeth A= Outside diameter B= Pitch- diameter C= Inside- diameter Hub width: Round bore Square							bore				
					mm	in.	mm	in.			
10	169	154	139	35	25/30/40/50/60	1/11/4	25/40/60	1½/2½			





S201 - 50 mm, Radius belt dimensions.



A = Standard belt width

B = Inner radius

C = Inner diameter

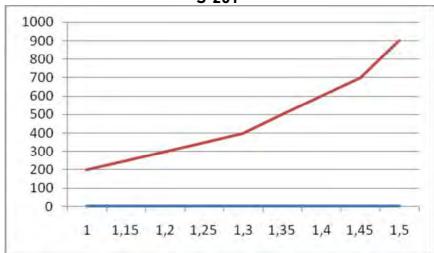
D = Outer diameter

Α	107	210	292	394	497	600	702	805	907	1011
В	148	240	355	505	670	855	1040	1210	1360	1540
С	296	480	710	1010	1340	1710	2080	2420	2720	3080
D	510	900	1294	1798	2334	2910	3484	4030	4534	1011 1540 3080 5102

Standard width - Radius belts

Belt	Min.inner	Belt	Min.inner
width.	radius.	width.	radius
107	148	600	855
128	155	620	890
148	160	641	925
169	180	662	960
189	205	682	1000
210	235	702	1040
230	265	723	1085
251	295	744	1120
271	325	764	1150
292	355	785	1180
312	385	805	1210
333	415	826	1240
353	445	846	1270
374	475	867	1301
394	505	887	1331
414	535	907	1360
435	565	928	1400
455	595	949	1435
477	635	970	1475
497	670	990	1505
518	705	1011	1540
538	740		
559	785		
579	820		

S-201

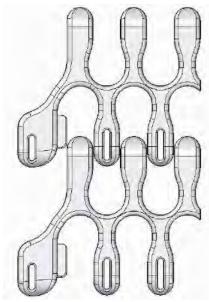


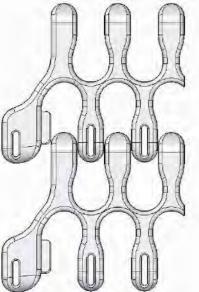
Collapse factor = min. inner radius belt width

Min. inner radius = collapse factor x belt width

S201 Hook







	Belt data.							
Belt material	Rods	Max. belt pull (kg).	Belt weight (kg/m²).					
Polyacetal	PP	205	8 8					
(POM)	Nylon	305						
Polypropylene	PP	Please contact						
(PP)	Nylon	MÄRTENS						

Belt surface: Smooth. 47 % Open area:

Ideal for heavy duty spirals and curves. Strength:

POM, PP Material/colour: Cleanability: Good

Accessories:

Application: Spiral coolers, radius conveyors. Contruction: Side modules, centre modules.

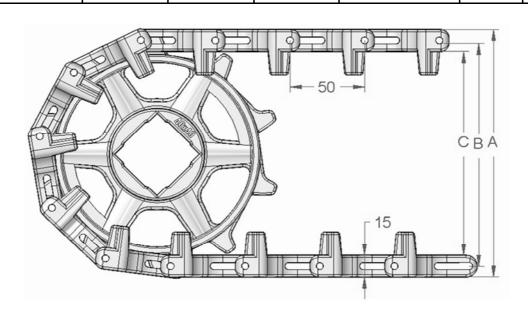
Width interval: Normally 20 mm. E.g: 210 mm, 230 mm etc.

Please see next page. Inner radius:

Turned inside Hooks:

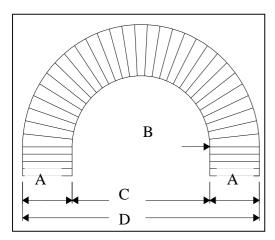
Distance between Hooks: Belt width less 17mm.

	Sprocket Data										
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter	Hub width:	Round bore Squ			bore			
					mm	in.	mm	in.			
10	169	154	139	35	25/30/40/50/60	1/11//	25/40/60	11/4/21/4			





S201Hook - 50 mm, Radius belt dimensions



A = Standard belt width

B = Inner radius

C = Inner diameter

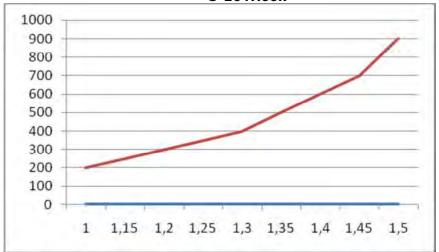
D = Outer diameter

Α	107	210	292	394	497	600	702	805	907	1011
В	148	240	355	505	670	855	1040	1210	1360	1540
С	296	480	710	1010	1340	1710	2080	2420	2720	3080
D	510	900	1294	1798	2334	2910	3484	4030	4534	1011 1540 3080 5102

Standard width – Radius belts

		T	
Belt	Min.inner	Belt	Min.inner
width.	radius.	width.	radius
107	148	600	855
128	155	620	890
148	160	641	925
169	180	662	960
189	205	682	1000
210	240	702	1040
230	265	723	1085
251	295	744	1120
271	325	764	1150
292	355	785	1180
312	385	805	1210
333	415	826	1240
353	445	846	1270
374	475	867	1301
394	505	887	1331
414	535	907	1360
435	565	928	1400
455	595	949	1435
477	635	970	1475
497	670	990	1505
518	705	1011	1540
538	740		
559	785		
579	820		

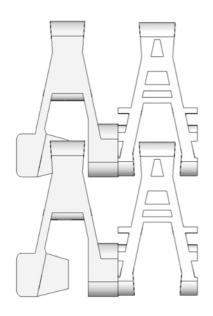
S-201Hook



Collapse factor = min. inner radius belt width

Min. inner radius = collapse factor x belt width.





	Belt data	
Materials	Max. belt pull kg	Belt weight kg/m²
Polyacetal (POM)	250	9
Polypropylene (PP)	140	7,5

Belt surface: Smooth. Open area: 67 %

Strength: The right belt for heavy transportation.

Material/colour: POM, PP Cleanability: Good

Accessories: 3 mm flight buds made in friction material or

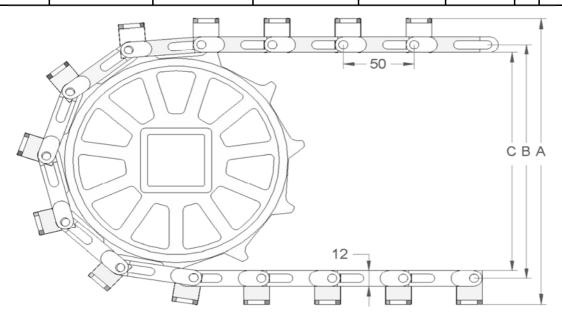
POM/PP. 25 mm side guards. Steel reinforcements.

Application: Spiral coolers, radius conveyors.

Construction: 43 mm side modules, 200 mm centre modules. Width interval: Normally 33 mm. E.g: 119 mm, 152 mm etc.

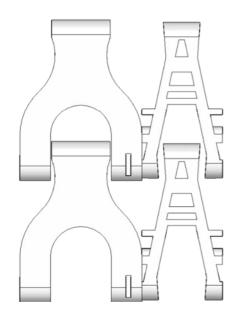
Contact MÄRTENS.

Sprocket Data										
No. of teeth			C= Inside- diameter	Hub width:	Round bo	Round bore		Square bore		
					mm	in.	mm	in.		
11	189	177	166	22	30/40/45		40			
11 STEEL	189	177	166	22	FLEX					





J450



Belt data								
Material	Max. belt pull	Belt weight						
	kg	kg/m²						
Polyacetal (POM)	450	9						
Polypropylene (PP)	200	7,5						

Belt surface: Smooth. Open area: 67 %

Strength: The right belt for heavy transportation.

Material/colour: POM Cleanability: Good.

Accessories: 3 mm flight buds made in friction material or

POM. 5 and 25 mm side guards.

Application: Spiral coolers, radius conveyors.

It only runs in J-curves.

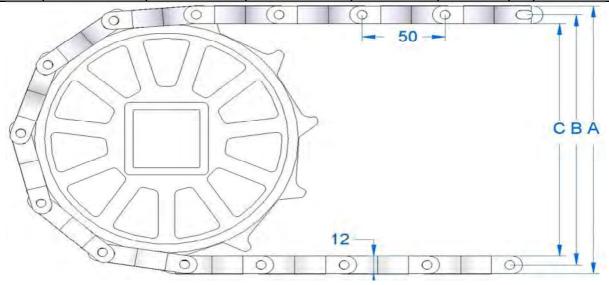
Construction: 47/50 mm side modules, 200 mm centre

modules.

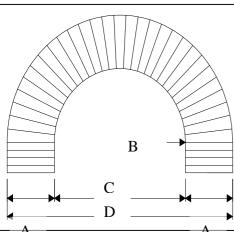
Width interval: Normally 33 mm. E.g: 95 mm, 128 mm, 162 mm

etc.

	Sprocket Data												
No. of teeth	A= Outside diameter	B= Pitch- diameter	C= Inside- diameter	Hub width:	Round bo	re	Square	bore					
					mm	in.	mm	in.					
6	116	104	92	22	FLEX								
11	189	177	166	22	30/40/45		40						
11 STEEL	189	177	166	22	FLEX								







A = Standard belt width

B = Inner radius

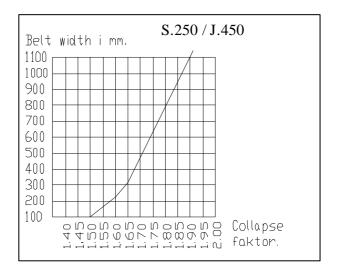
C = Inner diameter

D = Outer diameter

]	A	186	288	388	490	590	695	795	895	995	1095
	В	267	429	594	769	950	1150	1346	1551	1765	1988
	C	534	858	1188	1538	1900	2300	2692	3102	3530	3976
	D	906	1434	1964	2518	3080	3690	4282	4892	5520	6166
						J-4!	50				
	Α	95	195	296	396	498	600	701	802	903	1003
	В	133	283	444	614	797	960	1157	1364	1562	1775
	C	266	566	888	1228	1594	1920	2314	2728	3124	3550

S-250

Standard width - Radius						
belt						
S-250	J-450					
-	95					
119	128					
152	162					
186	195					
219	229					
252	262					
288	296					
321	329					
354	362					
388	396					
421	429					
454	462					
490	498					
523	532					
556	566					
590	600					
656	633					
695	667					
728	701					
761	734					
795	768					
828	802					
861	835					
895	869					
995	903					
1095	1003					
1195	1103					
1295	1203					
1395	1303					
	1403					



Collapse factor = min. inner radius belt width

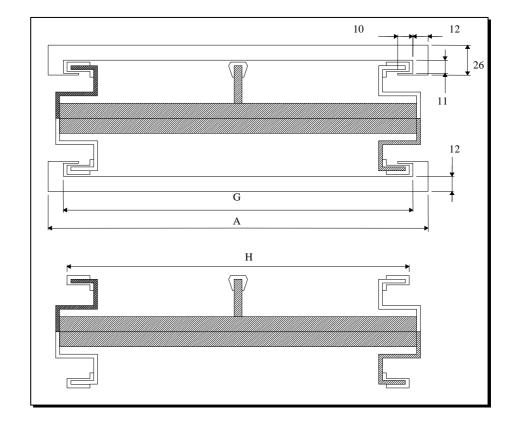
Min. inner radius = collapse factor x belt

Note: Belts width steel reinforcements S250: +5 mm.

Frame measurements for Radius belt



Frame measurements for Radius belt S250



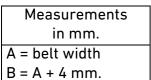
Measurements in mm.

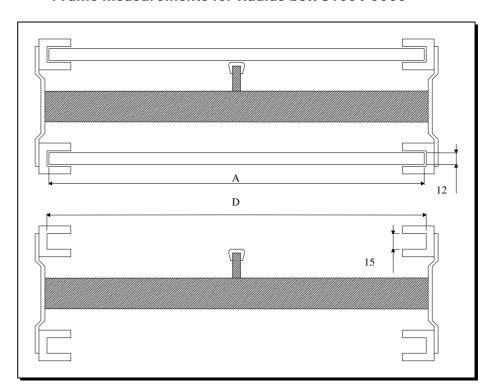
A = belt width

G = A - 24 mm.

H = A - 28 mm.

Frame measurements for Radius belt \$100 / J350





Installation instructions Radius belts



1.Frame construction.

The frame must be sufficiently stiff to prevent twisting or other forms of dimensional change while loaded. The outer dimensions must remain within stated tolerances, so that the belt cannot become trapped or fall out of the slide rails.

2. Slide rails.

There should be as few joints as possible and they should always be avoided in the curves. All joints must be smooth, so that the belt cannot get caught in a joint.

3. Sprockets.

The sprocket in the outer curve should be fitted as close to the outer edge as possible. All drive sprockets should be locked so that they cannot move sideways.

Contrary to the drive sprockets, the non-driven sprockets should be fitted, so that they run freely on the shaft.

4. Turning shoe.

It is vital that the transition between the turning shoe and the slide rails is smooth with no risk of the belt getting caught.

5. Tightening.

The belt should normally be installed with an excess length of approx. 3 elements, depending on the total length of the belt.

In the event of the return belt rising immediately after the drive unit, a take-up roller may be necessary. On short belts, tightening to a single element's excess length may be sufficient.

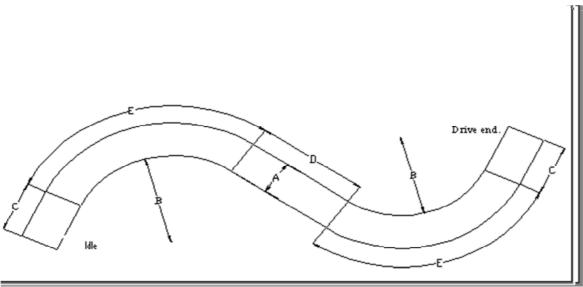
An "accumulation" of the belt must never occur at the drive sprockets.

6. Extra drive unit.

On heavily loaded belts, an extra drive unit may be necessary. This motor can be of the type "BAUER DREHFELDMOTOR" in order to prevent the two motors from working against each other. The extra motor should be placed at the non-driven end, but under special circumstances may be placed at the centre of the belt.



Calculation for a S-curve



Radius Belt example 90° S-curve.

- A: Belt width.
- B: Min. inner radius = belt width x collapse factor.
- C: Straight run on pull and return = belt width.
- D: Straight run between 2 curves = min. 2 x belt width.
- E: Curve length.

Calculation example

Belt width 421 mm - 2 pcs. 90° turning radius. Collapse factor = 1,6

$$B = 421 (A) \times 1,6$$
 = 674 mm.
 $C \text{ min.}$ = 421 mm.
 $D \text{ min.}$ = 842 mm.
 $E [(B + A) \times 3,14]$ = 860 mm

Belt length-[C/C] (2 x C)+D+(2 x E) = 3404 mm.

Total belt length- $(C/C \times 2)$ + sprocket pitch diameter.



8. Accessories.

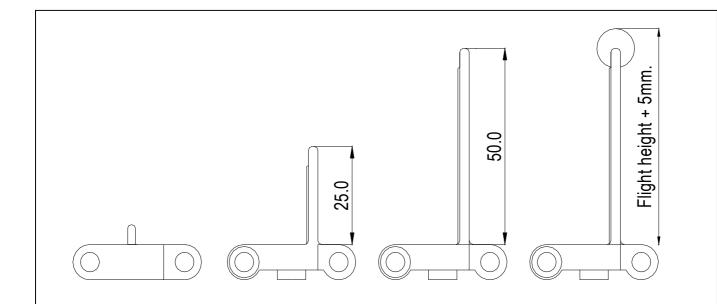




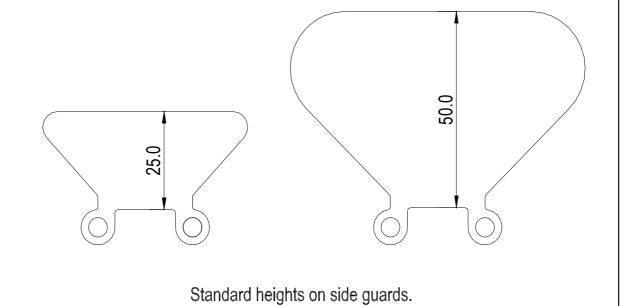


Accessories S25, 100-600-700



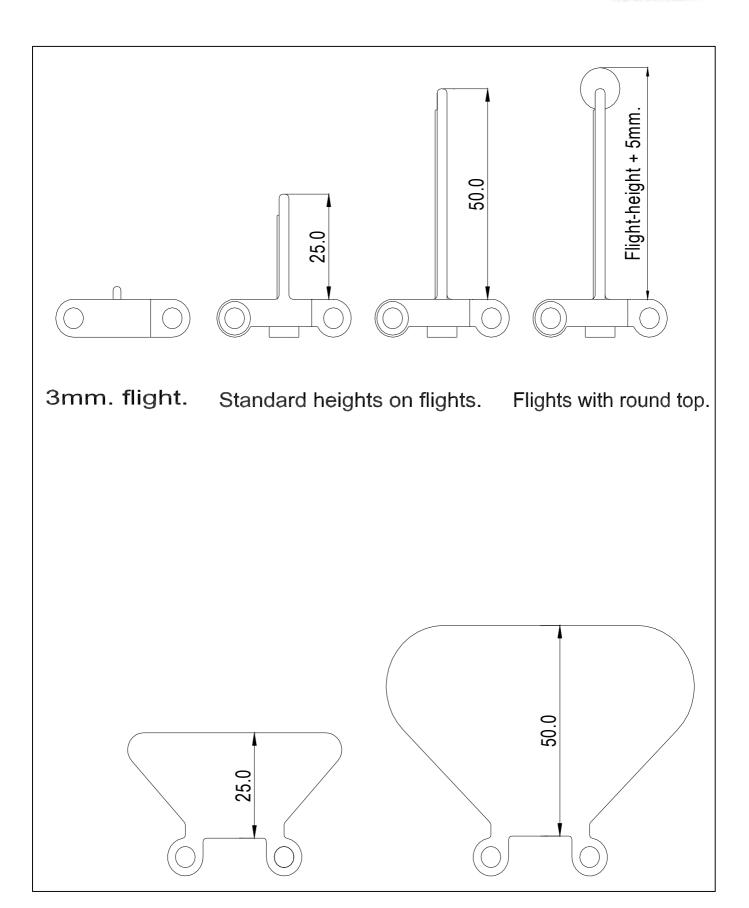


5mm. flight. Standard heights on flights. Flight with round top.



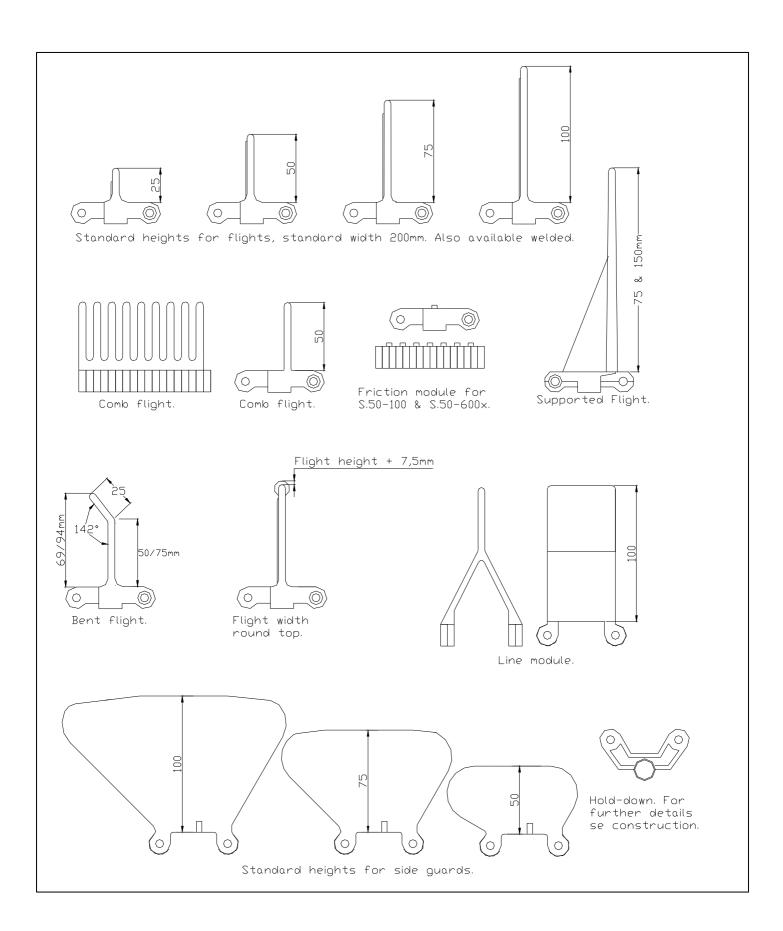
Accessories S25, 400-408-800





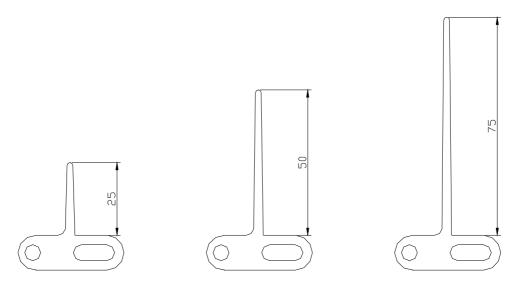
Accessories S50



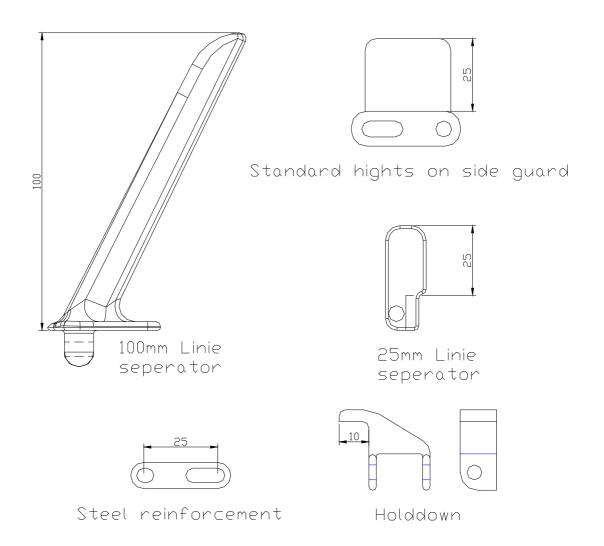








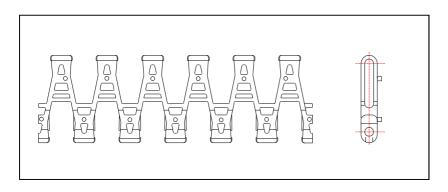
Standard hights onflights



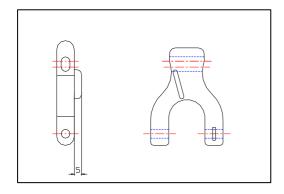
Accessories radius belt S50



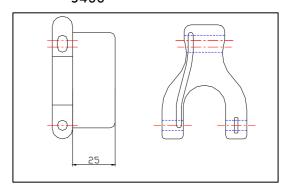
3 mm flight made in friction material or POM/PP/friction.



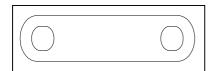
5 mm side guard J450



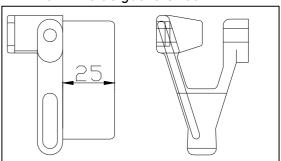
25 mm side guard J450



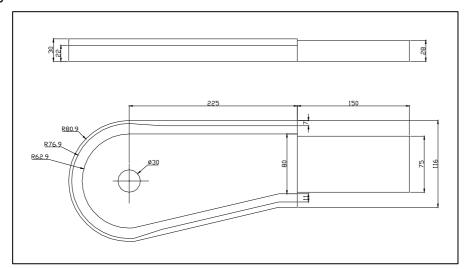
Steel reinforcement S250



25 mm side guard S250

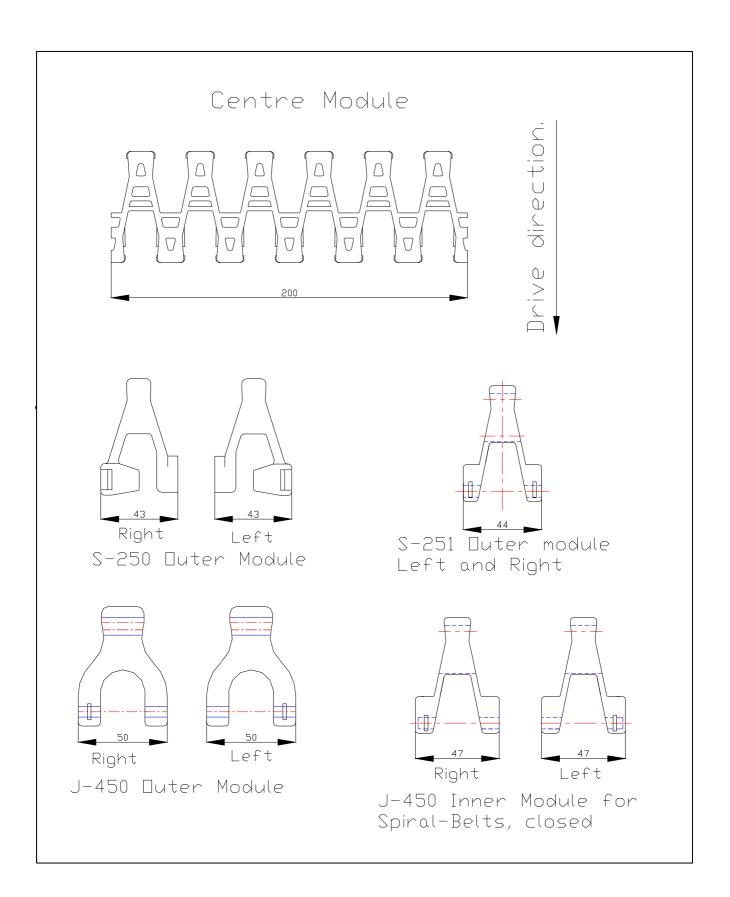


Turning shoe S250



Spare parts for radius belts

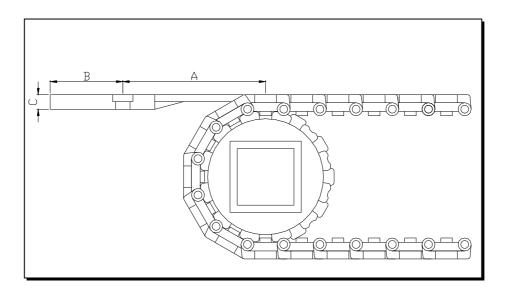


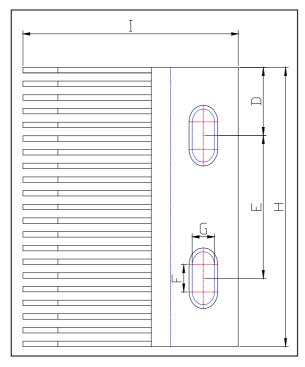


Finger transfer plates



Dimensions in mm.									
	S. 25-200	S. 25-420	S. 50						
Α	86	75	98						
В	32	18	50						
С	10	5	10						
D	57	25	57						
E	87	52	87						
F	31		31						
G	9,5	9,5	9,5						
Н	200	102	200						
I	188	92	280						





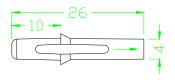
Accessories, Clips - straight belt



underlined + highlighted = Belt will as standard be closed with clips

S12

Accessories S12.S.12-400/<u>406/408</u> -12400LNY4 Rod length = belt width -58 mm Except PP belts over 499 mm wide -64 mm

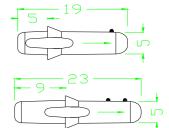


S25

S25-100/200/400/400F/402/406/408/411/412/420/600/700/702 - 25100LNY4

Rod length = belt width -44 mm

Except PP belts over 499 mm wide -50 mm



S25-800/806/830/836 -25800LNY4

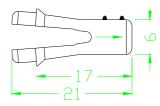
Rod length = belt width -52 mm Except PP belts over 499 mm wide -58 mm

S50

\$50-100/200/300/600/601/602/606/608/610/630 - 50100LNY4Marked by two dots

Rod length = belt width -48 mm

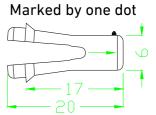
Except PP belts over 499 mm wide -54 mm



S50-**401** - 50401LNY4

Rod length = belt width -58 mm

Except PP belts over 499 mm wide -64 mm

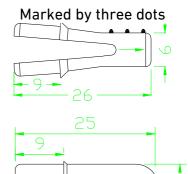


S50-**801/806/808/830**

- 50808LNY4

Rod length = belt width -58 mm

Except PP belts over 499 mm wide -64 mm



S50-**906/908/930/938**

- 50900LNY4

Rod length = belt width -56 mm

Except PP belts over 499 mm wide -62 mm

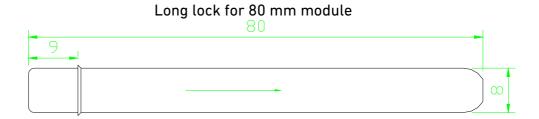
Accessories, Clips - straight belt



underlined + highlighted = Belt will as standard be closed with clips

S50

S50-**988** 50988LNY4



Accessories. Clips - Radius belt

underlined + highlighted = Belt will as standard be closed with clips

S.25 Radius belt S.100R -

Rod length = belt width -14 mm

S.100C Rod length = belt width -12 mm

S.101 - 2L001M0

Rod length = belt width -12 mm

2L000M0 Great end lock



Small end lock



S.50 Radius belt

S.**250/175** - 5K000M0

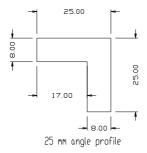
Length = belt width -6 mm

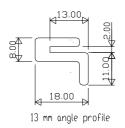
S.251/350/450 5S000M0

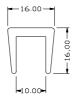
Length = belt width -4 mm

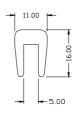
Wear strips

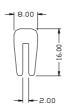








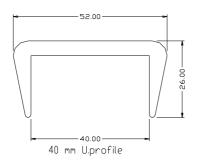


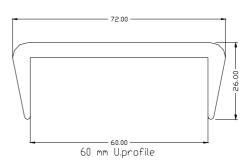


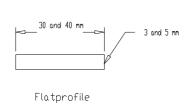
10 mm U.profile

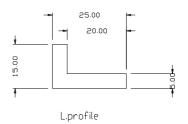
5 mm U.profile

2 mm U.profile









Materials: PEHD 300



9. Construction / Installation Instruction

A: Construction

B: Construction examples

C: Thermal expansion/contraction

D: Material description

E: Chemical resistance

F: Installation and maintenance

G: Malfunctioning

H: Calculation af motorpower





Construction (A)

Construction of conveyors using MÄRTENS modular belts

The construction and assembly of conveyor systems using MÄRTENS modular belts are not significantly different from conveyor systems utilising other belt types. There are, however, certain points which we would like to emphasise. Therefore we have prepared general assembly guidelines, which we hope will be helpful when designing and constructing a conveyor system.

Note that belt widths under 500 mm have a tolerance of ±3 mm and belt widths over 500 mm have a tolerance of ±6 mm.

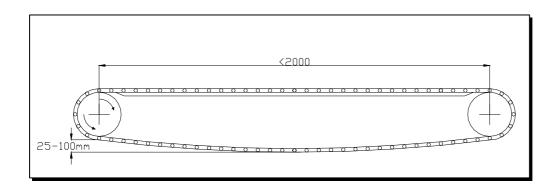
There are 3 diagrams illustrating horizontal conveyor systems.

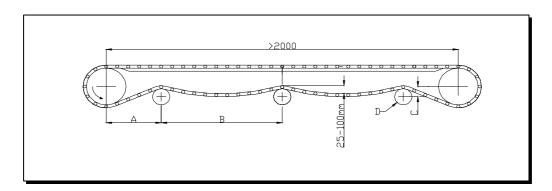
Fig. 1 relates to short lightly loaded conveyor systems. This type of construction means the belt is tightened and tensioned by adjustment at one or both shafts. This conveyor system can be used in a reversing operation. It is important to be aware of temperature fluctuations when using this type of construction. In the event of low temperatures, the belt will contract significantly. At high temperatures the belt will expand, which could result in poor or even complete lack of engagement from the sprockets on the drive wheels.

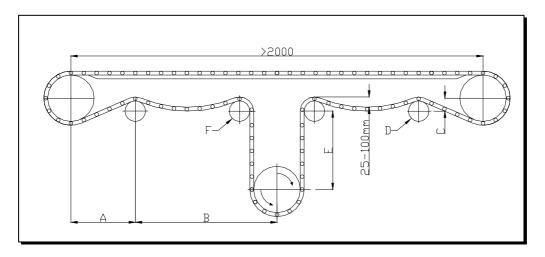
Fig. 2 relates to longer and more heavily loaded conveyor systems. This conveyor system cannot be used in a reversing operation. The first support after the drive wheel ensures the best possible engagement. The second support should be located in a position where the weight of the belt "sag" between the first and the second support is sufficient to maintain the correct belt tension. This ensures continuous positive engagement from the sprockets on the drive wheel. Another advantage of this type of construction, which features a series of belt supports, is that it is possible to accommodate any belt contraction/expansion by fluctuating the degree of belt "sag" between all other supports.

Fig. 3 is similar to the conveyor system shown in the middle diagram. The only exception is that it can be used in a reversing operation. However, it cannot handle the same heavy loads.









```
A = 200 - 300 mm.
```

B = Min. 1000 mm - max.10% of the centre distance.

C = 0 - 50 mm.

 $\label{eq:defD} D = S.~12~min.~\emptyset 20mm ~-~S.~25~min.\emptyset 50~mm.~-~S.~50~min.~\emptyset~100~mm.$

E = S. 12 min. 50mm - S. 25 min. 75 mm - S. 50 min. 150 mm.

F = S. 12 min. Ø20mm - S. 25 min. Ø100 mm - S. 50 min. Ø150 mm

Construction examples (B)



Construction of conveyors using MÄRTENS modular belts

There are 2 diagrams illustrating elevator conveyor systems.

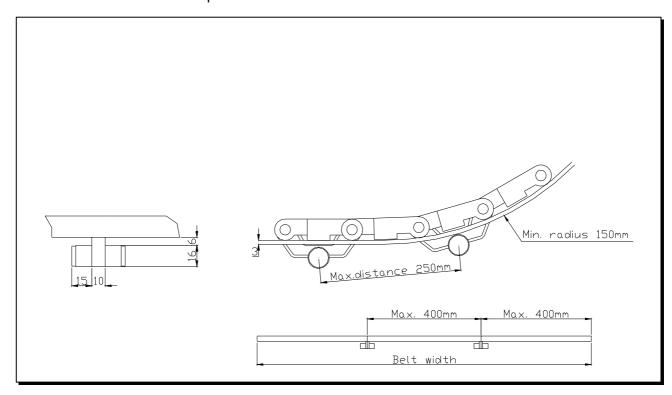
Fig. 1 shows a very common construction. The drive sprocket is at the top of the elevator system. The first support after the drive sprocket ensures the best possible engagement. The second support should be located in a position, so that the weight of the belt "sag" between the first and the second support is sufficient to maintain the correct belt tension. This ensures continuous positive engagement from the sprockets on the drive sprocket. If there is insufficient distance between the first two supports, the tensioning belt "sag" should be moved to the area between the second and the third support. When provision has been made for adequate tensioning by following the above points, the belt can then be enclosed and allowed to run inside the conveyor framework for the remainder of the return leg.

At the point where the belt runs negatively, between the horizontal and incline (E-radius), it can be held in position and retained at the sides by the synthetic guide rails. Another option is the use of the hold-down segment built into the underside of the belt. These segments attach onto a suitable rail incorporated in the conveyor support bed.

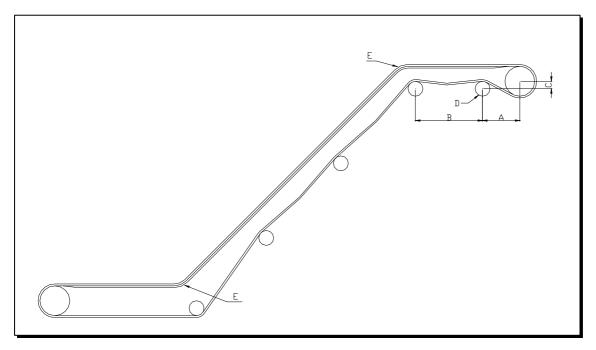
Fig. 2 shows a similar elevator system. It is constructed in the same way.

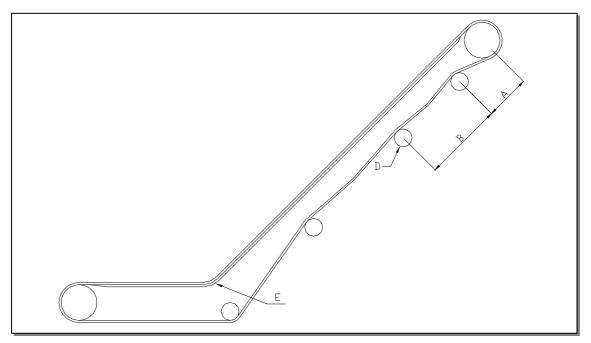
In some exceptional cases, more tightening/tensioning may be necessary. This can be achieved by using counter-weights or springs.

Construction example









A = 200 - 300 mm.

B = Min. 1000 mm - max.10% of the centre distance.

C = 0 - 50 mm.

D = S. 25 min.Ø 50 mm. - S. 50 min. Ø 100 mm.

E = Min. radius 150 mm



Recommendations for sprocket and belt support (C)

	Sprockets										
Nominal belt width	S	Standard loa	d	Heavy load							
mm	Series 12	Series 25	Series 50	Series 12	Series 25	Series 50					
50	2	1	1	2	1	1					
100	3	2	2	3	2	2					
150	3	2	2	4	3	2					
200	4	3	2	5	4	3					
250	5	3	3	7	5	3					
300	6	4	3	8	6	4					
350	7	5	4	9	7	5					
400	8	6	4	10	8	6					
450	9	6	5	12	9	6					
500	10	7	5	13	10	7					
600	12	8	6	15	12	8					
700	15	10	8	19	15	10					
800	16	11	8	20	16	11					
900	18	12	9	23	18	12					
1000	20	14	10	25	20	14					
1200	24	16	12	30	24	16					
1500	30	20	15	38	30	20					
1800	36	24	18	45	36	24					
2100	44	28	21	53	42	28					
2400	48	32	24	60	48	32					
3000	60	40	30	75	60	40					
3600	72	48	36	90	72	48					
4000	80	54	40	100	80	54					
	Max.	Max.	Max.	Max.	Max.	Max.					
	space	space	space	space	space	space					
	between	between	between	between	between	between					
	sprockets	sprockets	sprockets	sprockets	sprockets	sprockets					
	50mm	75 mm	100 mm	40 mm	50 mm	75 mm					



	Belt support									
Nominal belt width	Serie 12 Serie 25			e 25	Seri	e 50				
mm	carry way	return way	carry way return way		carry way	return way				
50	2	2	2	2	2	2				
100	2	2	2	2	2	2				
150	2	2	2	2	2	2				
200	3	2	3	2	2	2				
250	3	2	3	2	3	2				
300	3	2	3	2	3	2				
350	4	3	4	3	3	3				
400	4	3	4	3	3	3				
450	4	3	4	3	3	3				
500	5	3	5	3	4	3				
600	5	3	5	3	4	3				
700	6	4	6	4	5	4				
800	7	4	7	4	5	4				
900	7	4	7	4	5	4				
1000	8	5	8	5	6	5				
1200	9	5	9	5	7	5				
1500	11	6	11	6	8	6				
1800	13	7	13	7	9	7				
2100	15	8	15	8	11	8				
2400	17	9	17	9	12	9				
3000	21	11	21	11	15	11				
3600	25	13	25	13	17	13				
4000	29	15	29	15	19	15				
For other widths	Max. distance 150 mm	Max. distance 300 mm	Max. distance 150 mm	Max. distance 300 mm	Max. distance 225 mm	Max. distance 300 mm				

When distance between shafts is more than 4 m, a roller is recommended on the return way.



All types of materials change dimensions when the **temperature changes**.

Therefore you need to take this into consideration, when calculating a belt's dimensions and the frame constructions.

Below are the relevant factors for calculating a MÄRTENS conveyor belt.

<u>Material</u>		Expansion/contraction mm/m/°C
Belt:		
Polypropylene Polyethylene Polyacetal	PP PE POM	0.12 0.22 0.09
Wear strip:		
U and V profile	PEHD	0.14
Frame material: Aluminium Stainless steel		0.02 0.01

Formula:

E = L x (T2 - T1) x K
C = L x (T2 - T1) x K
E = Expansion (mm)
C = Contraction (mm)

L = Length/width of belt (m)
T1 = Normal temperature (21°C)
T2 = Working temperature

K = Coefficient

Example:

17 M.long, 1345 mm wide, PP. Normal temp. 21,° Working temp. 85 °C.

Length: $E = 17 \times (85 - 21) \times 0.12$

E = 130.56 mm

Width: $E = 1.345 \times (85 - 21) \times 0.12$

E = 10.33 mm

Thermal expansion/contraction (D)

SERVICE FACTOR (SF)									
Unloaded starts & load applied gradually		<u>1.0</u>							
Frequent starts under load, more than 1/hr.	+ 0.2								
Belt speed greater than 30 mtr./min.	+ 0.2								
Elevating conveyors	+ 0.4								
Pusher conveyors	+ 0.2								
SF total									

All friction values are theoretical and may not reflect the working conditions. For new belt on new wear strips, the values will in most cases be higher to begin with. The theoretical values are in any respect given under optimal condition.

	С	oeffic	ient of	start-u	p fricti	on between wea	r strip and belt					
	Belt material											
Wearstrip	Po	lyprop	oylene			Polyet	hylene	Acetal P	MO			
material				х	х							
	Smooth		Abrasive		Smooth		Smooth					
 	Wet		Dry	Wet	Dry	Wet	Dry	Wet	Dry			
PEHD	0.09		0.11	-	-	-	-	0.09	0.08			
UHMW	0.11		0.13	-	-	0.24*	0.32*	0.10	0.10			
			Х									
Steel	0.26											
xx = Contact MÄRTENS x = Not recommended over 15 mtr./min.												

^{*}Note that the wear will increase with the belt speed. It should be expected to be extensive for speeds greater than 15M/min

		Coefficient of fr	riction between p	roduct and belt		
	Polypro	pylene	Polyet	hylene	Acetal	POM
Material:	Smo	oth	Smo	ooth	Smooth	
	Wet	Dry	Wet	Dry	Wet	Dry
Glass	0.18	0.19	0.08	0.09	0.13	0.14
Metal	0.26	0.32	0.10	0.13	0.19	0.20
Plastic	0.11	0.17	0.08	0.08	0.13	0.15
Cardboard	-	0.21	-	0.15	-	0.13



Material description (E)

Polyethylene:

Thermal plastic with a weight mass of approx 0.92. grams/cm³.

Suitable for use in cold areas.

Temperature range from - 73 °C to + 66 °C.

High chemical resistance.

FDA approved.

Tough yet flexible material with a high impact strength.

Polyethylene Plus:

Thermal plastic with a weight mass of approx. 0.92 grams/cm³.

Suitable for use in medium temperature areas.

Temperature range from - 20° C to + 80°C.

High chemical resistance.

FDA approved.

Same characteristics as Polyethylene, with a 30% larger tensile strength as well as a reduced impact strength.

Polypropylene:

Thermal plastic with a weight mass of approx. 0.92 grams/cm³.

Suitable for use in higher temperature areas.

Temperature range from + 5°C to + 100°C.

High chemical resistance.

FDA approved.

A strong material with a medium tensile strength, low impact strength at low temperatures.

Polypropylene heat stabilized:

Thermal plastic with a weight mass of approx. 0.92 grams/cm³.

Suitable for use in high temperature areas.

Temperature range from + 5°C to 120°C.

High chemical resistance.

FDA approved.

Medium tensile strength, low impact strength at low temperatures.

Polypropylene Composite:

Thermal plastic with a weight mass of approx. 1.25 grams/cm³.

Suitable for use in high temperature areas.

Temperature range from -20°C to + 130°C.

High chemical resistance.

A strong and consistently stable material. Extremely high tensile strength, but has increased friction between the support and the belt. Low impact strength at low temperatures.



Polypropylene antistatic:

Thermal plastic with a weight mass of approx. 0.98 grams/cm³.

Suitable for use in areas requiring electrical diversion.

Temperature range from + 5°C to + 100 °C.

High chemical resistance.

Not FDA approved

Tensile strength as normal polypropylene.

Polyacetal (POM):

Thermal plastic with a weight mass of approx. 1.4 grams/cm³.

Suitable for use in both warm and cold areas.

Temperature range from - 43°C to + 95°C.

Has a limited resistance to certain chemicals. If in doubt, please contact MÄRTENS.

FDA approved.

Consistently stable material with a high tensile strength.

Low friction between belt and support.

Low impact resistance at low temperatures.

Polyacetal antistatic:

Thermal plastic with a weight mass of approx. 1.4 grams</cm³.

Suitable for use in areas requiring electrical diversion.

Temperature range from - 43°C to + 95°C.

Not FDA approved

Other characteristics, are the same as polyacetal.

Nylon 6:

Thermal plastic with a weight mass of approx. 1.08 grams/cm³.

Suitable for use in both warm and areas.

Temperature range from - 45°C to + 110°C.

High chemical resistance. Not suitable in damp areas at high temperatures.

FDA approved.

Tough yet flexible material with a high tensile strength as well as a high impact strength.

Nylon 6.6:

Thermal plastic with a weight mass of approx. 1.1 grams / cm³.

Suitable for use in both warm and cold areas.

Temperature range from - 45°C to + 150°C.

High chemical resistance, though not suitable for use in very damp areas at high temperatures.

Not FDA approved

Tough yet flexible material with a high tensile strength as well as a high impact strength.



Nylon antistatic:

Thermal plastic with a weight mass of approx. 1.1 grams/cm³.

Suitable for use where electrical diversion is required.

Temperature range from - 45°C to + 110°C.

High chemical resistance. Not suitable in wet areas.

Not FDA approved

Tough yet flexible material with a high tensile strength as well as a high impact strength.

Fire retarding polypropylene:

Thermal plastic with a weight mass of approx. 0.98 grams/cm³.

Suitable for use in fire hazard areas, as in microwave ovens and the like.

Temperature range from + 5°C to + 120°C.

High chemical resistance.

Flammability VO (3,2 mm).

FDA approved.

Strong material with medium tensile strength. Low impact strength at low temperatures.

Friction material:

Thermal plastic with a weight mass of approx. 1.14 grams/cm³.

Suitable for use in both warm and cold areas.

Temperature range from - 25°C to + 80°C.

High chemical resistance.

FDA approved.

Soft material with high friction, low tensile strength.

Suitable to put on the surface of PE and PP belts.

Used for belts with slight inclination.

Silicone and teflon material:

An additive added to polyethylene and polypropylene.

This material prevents products from freezing or sticking to the belt.

FDA approved.

The characteristics of the basic material are not changed essentially.

Metal detectable:

An additive added to polypropylene.

The compound is designed to be detected by metal detectors.

Sensibility degrees may vary with customer's equipment.

The material complies with FDA regulations for use in food processing and packaging.



Chemical resistance (F)

The chemical resistance of plastic materials.

The values in the following tables are guideline values. Factors such as filling material, temperature, concentrations, stress, stress time etc. can alter these values dramatically. Therefore no guarantee can be given for the correctness of said values. The values are valid at an ambient temperature of $20\,^{\circ}$ C, and unless otherwise stated, with strong concentrations.

Explanation of symbols:

+ : resistant: None or only negligible changes in weight (< 0.5%).

No changes in mechanical characteristics.

±: qualified resistance: After a period of time, significant changes in weight and mass (0.5 - 5.0%).

Possible discoloration and reduction in strength and ductility.

Qualified usability, though only when dealing with simple material require-

ments.

-: inconstant: It is rapidly subjected to serious attack, and changes in weight and mass (> 5%),

and critical in strength and ductility. Not recommended for use.

Plastic material

%: concentration: If value is not given it is because no test results are available from our suppliers.

Plastic material					
Vahiala	0/	DOM	DE	DD	P
Vehicle	%	POM	PE	PP	Α
Acetaldehyde	40	+	+	+	
Acetaldehyde	12	+	+	+	+
Acetic acid	10	±	+	+	+
Acetic acid	80	-	+	+	+
Acetone	100	+	+	+	±
Alcohol	15	+	+	+	+
Allyl alcohol	100	+	+	+	
Aluminium chloride	10	+	+	+	±
Ammonia water	10	+	+	+	±
Ammonium chloride		+	+	+	±
Ammonium chloride	10	+	+	+	+
Aniline	100	+	+	+	±
Benzene	100	+	+	-	-
Benzyl alcohol	100	+	+	+	±
Boiled salt -	10	+	+	+	+
cf. Sodium chloride					
Boracic acid	10	+	+	+	±
Bromine acid	50	-	+	+	
Butanol	100	+	+	+	+
Butyl acetate	100	+	+	-	+
Calcium carbonate		+	+	+	+
Calcium chloride -					
aqueous	10	+	+	+	+
Calcium chloride -					
with sprit	20	+	+	+	±
Calcium hydroxide		+	+	+	+
Calcium carbonate -					
Carbon dioxide		+	+	+	+

r tastic material					Р
Vehicle	%	РОМ	PE	PP	A
Caustic potash soln	10	+	+	+	+
Caustic potash soln	10	+	+	+	+
Caustic potash soln	50	+	+	+	+
Cellulose acetate		+	+	+	-
Citric acid	10	+	+	+	+
Chalk cf					
Carbon disulphide	100	+	+	+	-
Chlorine gas	100	-	+	-	
Chlorine water		-	+	+	-
Chloro-benzene	100	+	+	+	+
Chloroform	100	-	-	+	+
Chrome acid	10	-	+	+	-
Copper chloride		+	+	+	±
Copper sulphate		+	+	+	±
Diesel fuel	100	+	+	+	+
Dioxane	100	±	+	±	+
Di -vinyl chloride	100	+	-	+	
Edible oil		+	+	+	
Ethyl acetate	100	+	+	+	+
Ethyl alcohol	96	+	+	+	+
Ethyl ether	100	+	+	+	+
Formaldehyde -					
Flourine, dry		-	-	-	+
Freon 11		+	+	-	
Freon 12			+	-	
Freon 22			+	-	
Freon 113			+	-	
Glycerol	90	+	+	+	+



Plastic material						Plastic material					
Medie	%	POM	PE	PP	PA	Vehicle	%	POM	PE	PP	PA
	400										
Heptane	100	+	+	+	+	Ozone		-	+	+	±
Hexane	100	+	+	+	+	Petrol	400	+	+	+	±
Hydrargyrum	100	+	+	+	+	Phenol, melted	100	-	+	+	±
Hydrochloric acid	10	-	+	+	+	Phenol, aqueous	10	-	+	+	±
Hydrochloric acid	2	-	+	+	+	Phosphoric acid	10	+	+	+	+
Hydrofluoric acid	40	-	+	+	-	Phosphoric acid -					
Hydrogen peroxide	0.5	+	+	+	+	Concentrated	80	-	+	+	+
Hydrogen peroxide	1	+	+	+	±	Potassium	10	+	+	+	±
Hydrogen peroxide	3	+	+	+	±	Pot. Bichromate	5		+	+	
Hydrogen peroxide	10	+	+	+	±	Pot. Permanganata	1	+	+	+	
Hydrogen peroxide	30		+	+	±	Salt cake -					
Hydrogen sulphide	2	-	+	+		CF Sodium sulphate					±
lodine/lodine - pot					-	Sea water	100	+	+	+	+
Iron - 111 - Chloride		+	+	+	+	Silicone oil		+	+	+	+
Isopropanol	90	+	+	+	+	Soap solution	1	+	+	+	
Kerosine	100	+	+	+	+	Soda lve, aqueous	50	+	+	+	
Lactic acid	10	+	+	+	+	Soda lve, aqueous	10	+	+	+	+
Leaching solution -						Soda -					
0.1 % free chlorine		_	+	+	_	cf. Sodium carbonate					
Lead sugar		+	+	+	+	Sodium bisulphate	10	_	+	+	
Liquid butane		+	+	+	+	Sodium carbonate	10	+	+	+	
Magbesium chloride											
-						Sodium hydroxide -					
Aqueous	10	+	+	+	+	cf. Sode lve					
Manganese sulphate	10	+	+	+	+	Sodium sulphate	10	+	+	+	
Mercury chloride -	'					Solution	3	·	+	+	
Aqueous	5	+	+	+	+	Sulphur dioxide		+	+	+	±
Methanol	98	+	+	+	+	Sulphuric acid	98	_		<u>'</u>	_
Metal acetate	100	+	+	+	+	Sulphuric acid	10	+	+	+	+
Methylethylketone	100	+	+	+	+	Sulphuric fuming	10	_	_	_	_
Methylene chloride	100	_				Terachlorocarbon	100		_	_	_
Mineral oil	100		+	+	+	Tetraline	100	+			
Nitric acid	100	+	+	+	+	Thionyl chloride	100		+	+	+
	10	-	+	+	+			+	-	-	
Nitric acid -	/-		_			Toluene	100	+	+	+	+
Concentrated	65	-	+	_	+	Trichloroethylene	100	+	-	+	±
Nitrobenzene	100	+	+	+	±	Vinyl benzene	100	+	+	+	+
Oleic acid -						Water, cold		+	+	+	+
Concentrated	40	+	+	+	+	Wine		+	+	+	+
Oxalic acid	10	-	+	+	±	Wax, melted		+	+	+	+



Installation and maintenance instructions for MÄRTENS conveyor belts

Although belts made by MÄRTENS are easy to install and maintain, there are some points which should be observed:

Sprockets:

1. MÄRTENS sprockets can be supplied for two types of shafts:

A - Square shaft.

- Ensure that the sprockets are aligned, so that the gear teeth are not displaced.
- For sprockets with lateral control, the middle sprocket should be fixed and the others allowed to float freely.
- For sprockets without lateral control, spacers can be mounted between the sprockets to prevent them from moving sideways.
- An acetal plastic (POM) retainer ring is also supplied with a 6 mm stainless centre screw which should be screwed down into the shaft. The groove for the screw should be made with a drill, file or right-angle grinder (depth 1 2 mm).

B - Round shaft with key way (ISO standard).

- Ensure that the sprockets are aligned, so that the gear teeth are not displaced.
- For sprockets with lateral control, the middle sprocket should be fixed and the others allowed to float freely.
- For sprockets without lateral control, spacers can be mounted between the sprockets to prevent them from moving sideways.
- An acetal plastic (POM) retainer ring is also supplied with a 6 mm stainless centre screw which Should be screwed down into the shaft. The groove for the screw should be med with a drill, file or right-angle grinder (depth 1 - 2 mm.)
- 2. The sprockets are normally supplied in acetal plastic (POM), but are also available in Nylon (PA6), and Polypropylene (PP) in cases where aggressive substances are used.
- 3. Wherever possible, the drive sprocket should be located between the supports.
- 4. The number of drive sprocket and supports can be seen from the table (page 92).
- 5. For correct dimensions and specifications, refer to the drawings and tables for the respective belt types.
- 6. Clean the sprockets regularly, as the accumulation of dirt on the sprockets can result in poor, or a complete lack of, engagement with the belt.

Belt:



1. Installation:

When installing a belt from MÄRTENS, it is advantageous to ensure that the sprockets engage correctly, although not strictly necessary since the sprockets engage during operation. One should be careful to ensure that the side of the belt has a straight edge before securing with the plastic rod when assembling a belt from MÄRTENS. The plastic rod used for assembling the belt is equipped, either a) with a head at one end or b)with clips.

- a) After installation, any excess plastic rod should be cut off 1 2 mm from the belt's outer edge. Soldering/plugging can be carried out with a special soldering iron which can be supplied by MÄRTENS. If a soldering iron is not available, the plastic rod can be heated using, for instance, a lighter, after which soldering can be carried out with a soft press.
 - b) After installation, all rods are being locked, with the clips supplied with the belt

2. Maintenance:

In order to minimise wear and to prevent the belt from slipping it should be cleaned regularly. Slipping of the belt can be caused by the belt being insufficiently tightened. If the conveyor is equipped with a tightening device, then this should be used to try to tighten the belt. If this is not sufficient, the belt should be shortened (see trouble-shooting table).

New belts stretch, and it is therefore necessary to shorten the new belt shortly after operation has begun. This will usually be necessary after approx. 50 hours of operation.

3. Shortening / replacing damaged modules:

Always ensure that there are spare plastic rods and modules for the belt. Three extra rods are supplied with every new belt. Spare modules in standard widths of 200 mm, or other customized widths, can be supplied by MÄRTENS upon request.

When shortening / replacing damaged modules, the plastic rod can be removed most easily by cutting it as close to the edge of the belt as possible. The part which has been cut off can then be removed using a knife or screw-driver, and the rest of the rod can be knocked out using a punch.

When shortening the belt, excess modules should be removed. In the case of damaged modules, these should be removed and replaced by new modules.

The belt can then be reassembled with new rods as described above in the section on installation.

In case of emergency, when no spare rods are available, the link closest to the edge can be removed so that an old rod can be used. This must be done only in cases of emergency. If more extensive repairs are required, then contact MÄRTENS for a quotation. In the event of extensive damage, it may be more economical to buy a new belt.

Malfunction (H)



If the belt is malfunctioning

If the belt is not properly aligned:

Test / check: That the drive shaft and the flange roller are adjusted correctly.

If the belt pulls to one side:

Test / check: That the shaft is adjusted correctly; that the belt mounting stands rectangular.

That the belt is tightened to the same degree on both sides.

If the edges of the belt wear:

Test / check: That the shaft is adjusted correctly; that the gap between the edges of the belt and the

frame is wide enough when the operating temperature is at its highest and that the belt's supporting structure stands rectangular. That the shafts are locked in place so that they

cannot move from side to side (if necessary, use retainer rings).

If the belt jumps a notch on the sprockets:

Test / check: That the sag on the belt is adjusted so that it engages the sprockets correctly

(tighten as little as possible). That the products / materials do not collect on the return

track.

If the belt is subject to severe wear and tear:

Test / check: That it is not being operated with excessive amounts of gravel, sand or similar products.

That the belt is operating with a uniformly distributed load.

That the belt is supported correctly. That the belt is not running at excessive speeds. That the correct wear strips are being used. That the belt's supporting structure is level.

If the sprockets are subject to severe wear and tear:

Test / check: That the shafts are not twisted or bent, and that they are adjusted correctly.

That the sprockets have been fitted correctly and that there are enough of them. That the belt is not being run too quickly or too tightly. That the belt is not being operated with

excessive amount of gravel, sand or similar products.

If the rods are subject to severe wear and tear:

Test / check: That the belt is not being operated with excessive amounts of gravel, sand or similar pro-

ducts. That the belts is not being run too quickly. That the materials do not become conge-

sted on the belt.



If the rods work themselves loose from the belt:

Test / check: That the gap between the belt edges and the frame is wide enough when the operating

temperature is at its highest. That the rods are fitted correctly and locked.

If the wearstrip are subject to severe wear and tear:

Test / check: That the belt is being operated with the correct type of wear strip. That the belt is not too

tight.

If the edges of flights become worn:

Test / check: That there is enough space on the return track.

If the flights break:

Test / check: That the flights do not hit against the frame. That blockage do not occur at the in-

feed.

If the belt becomes discoloured or is attacked by chemicals:

Test / check: That correct cleaning procedures are followed. That white belts are not exposed to strong

sunlight (they turn a yellowish colour - use dark coloured belts instead!). That the operating

temperature is not too high.



Calculation of motorpower (I)

Sprocket Pitch

diameter D [mm]:
Belt Speed V [m/min]:
Shaft Speed n [rpm]
Belt Power F [N]
Torquemoment T [Nm]
Motorpower P [kW]

EKS.

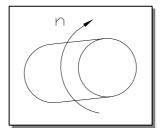
Sprocket Pitch diameter 97 mm

Belt Speed 10 m/min

Belt Power 25000 N

Shaft Speed of rotation



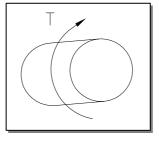


$$n = \frac{10 * 10^3}{97 * \pi}$$

n= <u>32.82 ~ 33 rpm</u>

Torsionsmoment of shaft

$$T = \frac{F * D * 10^{-3}}{2}$$



$$T = \frac{25000 * 97 * 10^{-3}}{2}$$

<u>T= 1213Nm</u>

Motorpower

P= <u>4.2kW</u>

STRIKE!

Our product groups at a glance:



ROD NETWORK BELTS: Made in music wire, stainless steel or K2390 steel, our rod network belts offer you all the advantages of open grid design and precise belt run.

- → Rod network belts are among the most popular conveyor solutions.
- Small deflection radii
- Grid structure for free liquid and air flow
- Guided by various means



METAL CONVEYOR BELTS: Our metal conveyor belts made from round or flat wire spirals are designed for universal use.

- → These multi-purpose conveyors are particularly suitable for high-temperature applications.
- With looped or welded belt edges
- Permeable and temperature resistant
- Made in stainless steel



SILICONE MOULDING BELTS: Märtens silicone moulding conveyor belts are available with customised surface structures and features tailor-made for your products.

- → The basis for your product ideas.
- Temperature resistant up to 180° C
- Excellent release properties
- Shaped and structured according to customer specifications



TIMING BELTS Made of thermoplastic or duroplastic polyurethane, they allow for precise conveyance

- → They are particularly suitable in cases where every millimetre counts.
- Exact conveyance
- Straight running
- Diverse designs



PLASTIC CONVEYOR BELTS: We offer conveyor belts with a variety of fabrics, including polyure-thane, PVC, silicone, etc.

- → They have been specifically designed for applications where high processing quality is essential.
- Food processing industry
- Processing conveyor systems
- Packaging technology



ACCESSORIES: Our comprehensive range of additional services and accessories covers everything required for safe and reliable system operation.

- → For safe and secure system operation. .
- Drive and deflection components
- Welding equipment
- Assembly solutions



MODULAR CONVEYOR BELTS: Made of polyethylene, polypropylene or polyacetal, they offer robust flexibility.

- → With their modular design, they are the most convertible of belts.
- Easy to extend/shorten
- For direct contact with foodstuffs



relating to process technology, based on expertise and years of practical experience.

SPECIAL MACHINES: We solve all your problems

- → Real-world solutions for practical application.

• Curved conveyor systems

- Separating plants
- Made in Germany



SEPARATING BELTS: The elasticated silicone material allows for flexible width adjustment of the product over separating distance.

- → Advanced solution for special applications.
- Product separation
- Product combination

Do you want to make progress?

With anti-stick surface



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We are happy to answer your questions, provide additional material or make you a non-binding offer.

Please let us know!