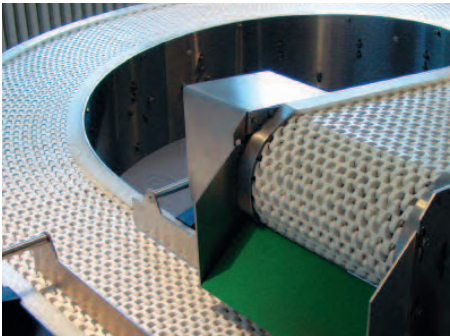


Product News

M2543 Tight Radius 1"



Space saving

Small collapse factor of 1.6 that allows extremely tight turns and requires 30 percent less space than common belts with a collapse factor of 2.2.



Less product imprinting

The large and uniquely completely smooth contact surface offers ideal conditions for avoiding imprints even on soft products. Contoured module design and this special surface allow for easy removal of debris and residues, which results in reduced cleaning time.



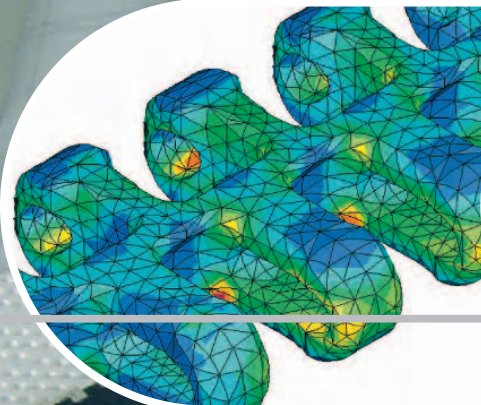
Strong belt

The patented T-shape design of the cross ribs guarantees a high lateral stiffness providing solid stability around curves. Despite the small collapse factor, an extremely high strength allows longer conveyors and less transfers.

M2543 Tight Radius 1" can ideally be applied when space is limited like in food facilities, such as bakery, fish, meat, poultry, dairy, fruit and vegetable plants, as well as in materials handling. Also ideal for new spiral projects as well as retrofitting.

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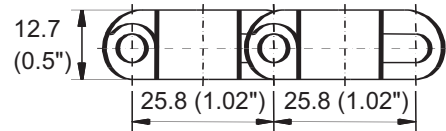
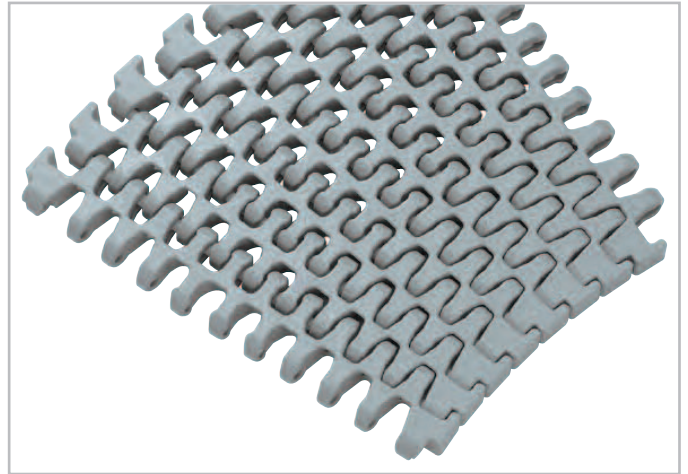


HabasitLINK® Product Data

M2543 Tight Radius 1"

Description

- For radius and straight conveying, ideal for applications with limited space (collapse factor 1.6)
- 35% open area; 57% open contact area; largest opening 7.5x10 mm (0.3"x0.4")
- Excellent for cooling and draining
- Easy to clean
- Food approved materials
- Rod diameter 5 mm (0.2")
- Suitable for universal 1" "Open window" and split sprockets



Belt data

Belt material			Polypropylene		Polyacetal
Standard rod material			POM	PA	PA
Nominal tensile strength [F _N] For b ₀ > 450 mm (18") higher values admissible. Refer to LINK-SeleCalc	straight run	N/m lb/ft	14'000 959	14'000 959	20'000 1'370
	in curve	N lb	800 180	800 180	1'200 270
Temperature range		°C	5 – 90	5 – 105	-40 – 90
		°F	40 – 195	40 – 220	-40 – 195
Belt weight [m _B]		kg/m ²	5.5	5.5	7.6
		lb/sqft	1.13	1.13	1.56
Coefficient of friction belt to support [μ _G]	• UHMW PE		0.13	0.13	0.10
	• HDPE		0.11	0.11	0.08
	• PA6, PA66		0.30	0.30	0.20
	• Lubricated PA		0.13	0.13	0.11
	• Steel		0.25	0.25	0.14
Coefficient of friction belt to goods [μ _P]	• Glass		0.19	0.19	0.15
	• Steel		0.32	0.32	0.20
	• Plastic (PET)		0.17	0.17	0.18
	• Cardboard		0.22	0.22	0.20

Standard range of belt widths and collapse factor Q (R_{min} = Q · b₀)

mm	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
inch (nom.)	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Coll.fact. Q	1.43	1.47	1.50	1.52	1.54	1.55	1.56	1.57	1.58	1.58	1.59	1.59	1.60	1.60	1.61
mm	1000	1050	1100	1150	1200	Belt widths larger 1200 mm (48 ") not recommended; please take contact with Habasit									
inch (nom.)	40	42	44	46	48										
Coll.fact. Q	1.61	1.61	1.62	1.62	1.62										

Standard belt widths in increments of 50 mm (2"). Non-standard widths are offered in increments of 16.66 mm (0.66"). Smallest possible width 200 mm (7.9").

For material selection refer to detailed material properties in Engineering Guidelines.

Coefficient of friction: The indicated values are valid for dry and clean conditions only. Under dirty conditions this factor may be 2 to 3 times higher.

The nominal tensile strength is valid for 23 °C (73 °F). The admissible tensile force is dependent on the operating temperature near the drive sprockets. Within the temperature range allowed, the admissible tensile force may vary from 100% to 20% of the nominal tensile strength. For detailed information and correct calculation of effective tensile force refer to Engineering Guidelines.