

# HabasitLINK® M2544 Tight Radius 1"

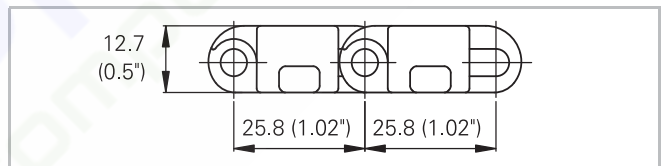
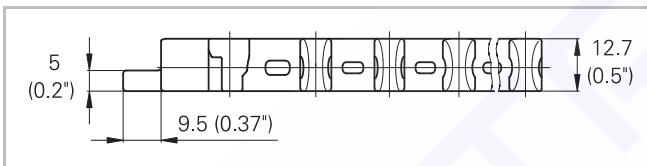
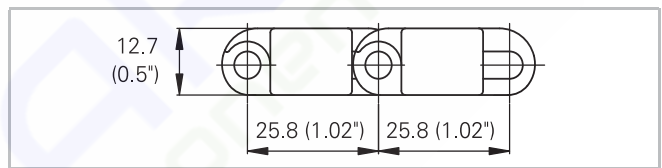


## Description

- For radius and straight conveying, ideal for applications with limited space (collapse factor 1.6)
- 38% open area; 75% open contact area; largest opening 6.5x12 mm (0.26"x0.47")
- Excellent for cooling and draining
- Easy to clean
- Food approved materials available
- Rod diameter 5 mm (0.2")

## Available accessories

- Adjustable radius plugs available: sizes 1.9, 2.2 and 3.0 turning radius
- GripTop modules
- Lane divider
- Side tabs
- Clip-on side guards



## Belt data

Belt material		POM	PP	
Rod material		PA		POM
Nominal tensile strength $F'_N$ straight run	N/m	20000	14000	14000
	lb/ft	1370	959	959
Nominal tensile strength $F_N$ in curve <sup>(1)</sup> metric For PDS only	N	1100	600	600
	lbf	247	135	135
Temperature range	°C	-40 - 93	5 - 105	5 - 93
	°F	-40 - 200	40 - 220	40 - 200
Belt weight $m_B$	kg/m <sup>2</sup>	8.4	5.8	5.8
	lb/sqft	1.72	1.19	1.19

<sup>(1)</sup> For  $b_0 > 600$  mm (23.6") higher values admissible. Refer to LINK-SeleCalc

Diameter of idling rollers (minimum)		Diameter of support rollers (minimum)		Diameter for gravity take-up and center drive rollers (minimum)		Backbending radius for elevators without side guards or hold down devices (minimum)	
mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6

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### Standard range of belt widths $b_0$ and collapse factor $Q$ ( $R_{min} = Q \times b_0$ )

Belt width mm (nom.)	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
Belt width 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	1.61	1.62	1.63	1.64
Fact. Q plug 1.9	1.65	1.69	1.73	1.75	1.77	1.78	1.79	1.81	1.81	1.82	1.83	1.83	1.84	1.84	1.85
Fact. Q plug 2.2	1.93	1.98	2.02	2.05	2.07	2.09	2.10	2.11	2.12	2.13	2.14	2.14	2.15	2.15	2.16
Fact. Q plug 3.0	2.71	2.78	2.83	2.87	2.90	2.92	2.94	2.95	2.97	2.98	2.99	3.00	3.01	3.01	3.02
Belt width mm (nom.)	1000	1050	1100	1150	1200										
Belt width inch (nom.)	40	42	44	46	48										
Coll. fact. Q	1.65	1.66	1.66	1.70	1.71										
Fact. Q plug 1.9	1.85	1.86	1.86	1.86	1.86										
Fact. Q plug 2.2	2.16	2.17	2.17	2.18	2.18										
Fact. Q plug 3.0	3.02	3.03	3.03	3.04	3.04										

Belt widths larger than 1200 mm (48") are not recommended. *Please contact Habasit.*

Real belt widths are in most cases 0.1% to 0.4% smaller.

For PP material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.

For POM material up to 750 mm (30") -4 mm to -1 mm and -0.5% to -0.2% for wider belts.

**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 detailed material properties** refer to the HabasitLINK® Engineering Guidelines.

**The nominal tensile strength** is valid for 23 °C (73 °F). The admissible tensile force depends 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 the Calculation Guide in the HabasitLINK® Engineering Guidelines.

#### Disclaimer

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