HabasitLINK®
M2520 Flat Top 1"

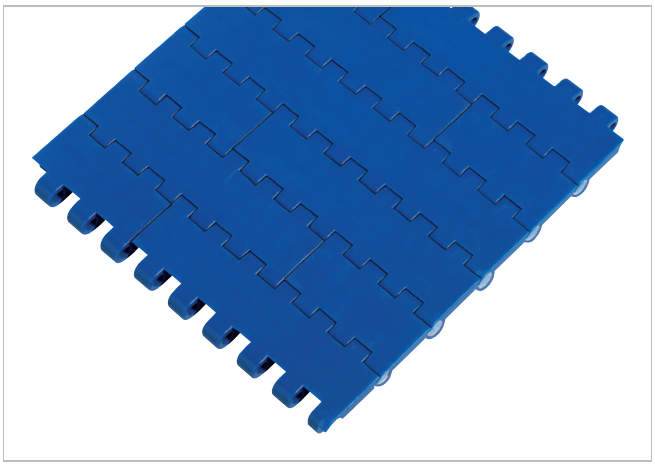
habasit

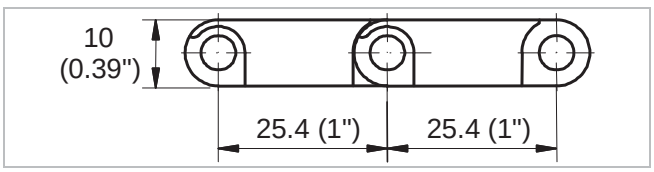
Description

- 0% open area
- High lateral stiffness
- Food approved materials available
- Rod diameter 5 mm *(0.2")*
- "Open window" sprockets

Available accessories

- Flights
- Side guards
- Hold-down devices
- GripTop modules





Belt data

Belt material		PE	POM	PA	POM	PP	
Rod material		PE	PA		PP	POM	PP
Flammability classification UL 94 (2)							
Flammability classification ISO 340 (2)							
Nominal tensile strength F'_N straight run	N/m *lb/ft*	9000 *616*	32000 *2192*	28000 *1918*	21500 *1473*	18000 *1233*	18000 *1233*
Temperature range	°C *°F*	-70 - 65 *-94 - 150*	-40 - 93 *-40 - 200*	-40 - 130 *-40 - 266*	5 - 93 *40 - 200*	5 - 93 *40 - 200*	5 - 105 *40 - 220*
Temperature maximum (short-term)	°C *°F*						
Belt weight m_B	kg/m² *lb/sqft*	5.8 *1.19*	8.4 *1.71*	7.8 *1.6*	8.4 *1.71*	5.5 *1.13*	5.5 *1.13*

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)		Backbending radius for elevators with side guards or hold down devices (minimum)	
mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*
50	*2.00*	50	*2.00*	100	*4*	150	*6*	250	*10*

Use the largest possible backbending radius for elevators with side guards or hold-down devices.

Standard range of belt widths b_0

mm (nom.)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	etc.
inch (nom.)	*2*	*4*	*6*	*8*	*10*	*12*	*14*	*16*	*18*	*20*	*22*	*24*	*26*	*28*	*etc.*

Real belt widths are in most cases 0.1% to 0.3% wider.
For PE material up to 750 mm *(30")* -3 mm to 1 mm and -0.4% to 0.1% for wider belts.
For PP material up to 750 mm *(30")* -1 mm to 2 mm and 0% to 0.45% for wider belts.
For POM material up to 750 mm *(30")* -2 mm to 1 mm and -0.25% to 0.25% for wider belts.

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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 83.4 mm *(3.25")*. Non-bricklayed belts 50 mm *(2")* and 100 mm *(4")* wide.

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.

Belt data for special belt materials

Belt material		PA+GF	PA+HT	PBT+FR		ST
Rod material		ST		PA	PP	ST
Nominal tensile strength F'_N straight run	N/m *lb/ft*	24000 *1644*	24000 *1644*	15000 *959*	16000 *1027*	12000 *822*
Temperature range	°C *°F*	0 - 145 *32 - 293*	0 - 170 *32 - 338*	-40 - 130 *-40 - 266*	5 - 105 *40 - 220*	0 - 200 *32 - 392*
Temperature maximum (short-term)	°C *°F*	175 *347*	200 *392*	150 *302*		240 *464*
Belt weight m_B	kg/m² *lb/sqft*	9 *1.85*	9 *1.85*	8.9 *1.82*	8.9 *1.82*	10.8 *2.21*

(1) In most cases standard sprockets are suitable. Depending on the application requirements it may be necessary to select a different sprocket material like Polyamide, Polyurethane or Polypropylene. For Polyamide +HT, Polyamide +GF and Super High Temperature belt materials it is recommended to use sprockets of the Super High Temperature material.
(2) Flammability classification UL 94 and ISO 340 see Glossary in the HabasitLINK® Engineering Guidelines.

Belt width for Polyamide +GF, Polyamide +HT and Super High Temperature material (ST)

mm (nom.)	50.8	101.7	152.5	203.3	254.2	305.0	355.8	406.7	457.5	508.3	559.2	610.0	etc.
inch (nom.)	*2.00*	*4.00*	*6.00*	*8.00*	*10.01*	*12.01*	*14.01*	*16.01*	*18.01*	*20.01*	*22.02*	*24.02*	*etc.*

Real belt widths are in most cases 0.1% to 0.3% smaller.

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