

HabasitLINK®

M3843 Tight Radius GripTop 1.5"



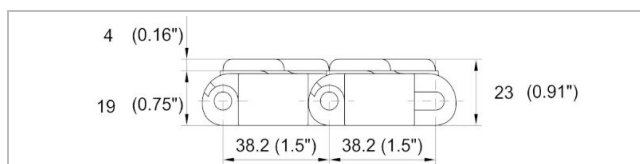
Description

- For radius and straight conveying, ideal for applications with limited space, with inclines (collapse factor 1.6)
- 31% open area; 50% open contact area; largest opening 7x19 mm (0.27"x0.75")
- Indent 30 mm (1.18")
- Abrasion resistant GripTop, high friction
- Food approved materials available
- Rod diameter 6 mm (0.24")
- Steel rods every 4th row when fully covered with rubber
- "Open window" sprockets



Accessories

- Flights M3840: minimum indent 105 / 95 mm (4.1" / 3.7")
- Clip-on side guards
- Hold-down tabs



Belt data

Belt material		PP
GripTop material		TPE
Rod material		Steel
Nominal tensile strength F'_N straight run	N/m lb/ft	20000 1370
Nominal tensile strength F_N in curve ⁽¹⁾	N lbf	1800 405
Temperature range	°C °F	5 - 100 40 - 212
Belt weight m_B	kg/m ² lb/sqft	8.9 1.83

⁽¹⁾ For $b_0 > 600$ mm (23.6") higher admissible values are admissible.

Stainless steel rods are needed in every 4th row if GripTop modules are applied every row (fully covered with rubber).

Use GripTop modules in every second row and M3843 middle modules in the intermediate rows to achieve a sufficient lateral stiffness without using steel rods (in this case the belt weight is around 10% less than the value indicated in the table).

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
90	3.50	90	3.50	150	6	150	6	250.0	10

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

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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
Belt width inch (nom.)	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Coll.fact. Q	1.50	1.53	1.55	1.57	1.59	1.60	1.61	1.62	1.62	1.63	1.63	1.64	1.65	1.66
Belt width mm (nom.)	950	1000	1050	1100	1150	1200								
Belt width inch (nom.)	38	40	42	44	46	48								
Coll.fact. Q	1.68	1.70	1.72	1.73	1.75	1.76								

Belt widths larger 1200 mm (48") not recommended.

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

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

Standard belt widths in increments of 50 mm (2"). Non-standard widths are offered in increments of 25 mm (1"). Smallest possible width 175 mm (7").

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.

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