

HabasitLINK®

M3843 Tight Radius 1.5"

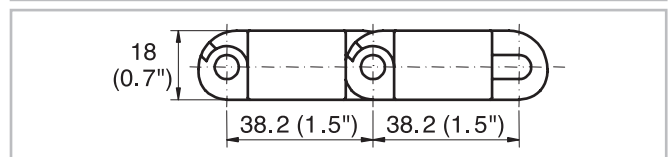


Description

- For radius and straight conveying, ideal for applications with limited space (collapse factor 1.6)
- 37% open area; 50% open contact area; largest opening 9x18 mm (0.35"x0.7")
- Excellent for cooling and draining
- Easy to clean
- Food approved materials available
- Rod diameter 6 mm (0.24")
- "Open window" sprockets

Available accessories

- Flights: Minimum indent 105 / 95 mm (4.1" / 3.7")
- Sideguards
- Hold down modules



Belt data

| Belt material | | PP | | POM | |
|--------------------------------------------------------|-------------------|----------|----------|----------|-----------|
| Rod material | | POM | | PA | |
| Nominal tensile strength F'_N straight run | N/m | 20000 | 20000 | 20000 | 29000 |
| | lb/ft | 1370 | 1370 | 1370 | 1986 |
| Nominal tensile strength F_N in curve ⁽¹⁾ | N | 1800 | 1800 | 1800 | 2250 |
| | lbf | 405 | 405 | 405 | 506 |
| Temperature range | °C | 5 - 93 | 5 - 105 | 5 - 105 | -40 - 93 |
| | °F | 40 - 200 | 40 - 220 | 40 - 220 | -40 - 200 |
| Belt weight m_B | kg/m ² | 8.0 | 8.0 | 8.0 | 11.8 |
| | lb/sqft | 1.64 | 1.64 | 1.64 | 2.42 |

⁽¹⁾ 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 sideguards or hold down devices (minimum) | | Backbending radius for elevators with sideguards or hold down devices (minimum) | |
|--------------------------------------|------|---------------------------------------|------|-----------------------------------------------------------------|------|------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------|------|
| mm | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 60 | 2.4 | 100 | 4 | 150 | 6 | 150 | 6 | 250 | 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 | 950 |
| Belt width inch (nom.) | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 |
| 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 | 1.68 |
| Belt width mm (nom.) | 1000 | 1050 | 1100 | 1150 | 1200 | | | | | | | | | | |
| Belt width inch (nom.) | 40 | 42 | 44 | 46 | 48 | | | | | | | | | | |
| Coll.fact. Q | 1.70 | 1.72 | 1.73 | 1.75 | 1.76 | | | | | | | | | | |

Belt widths larger 1200 mm (48") not recommended; *please contact your Habasit representative.*
Real belt widths are in most cases 0.1% to 0.3% smaller.

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 or contact your Habasit representative.

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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