

Power Transmission Belts

TCF-50H



Main industry segments

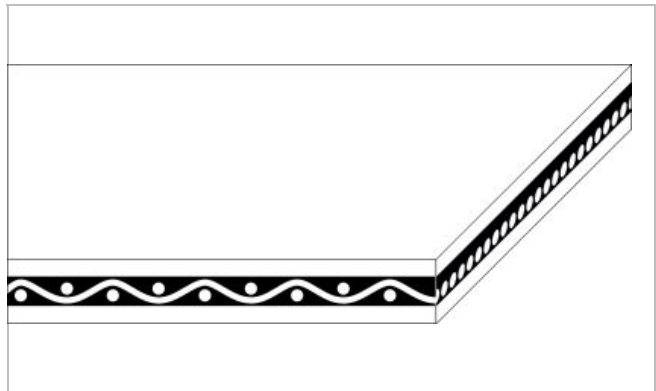
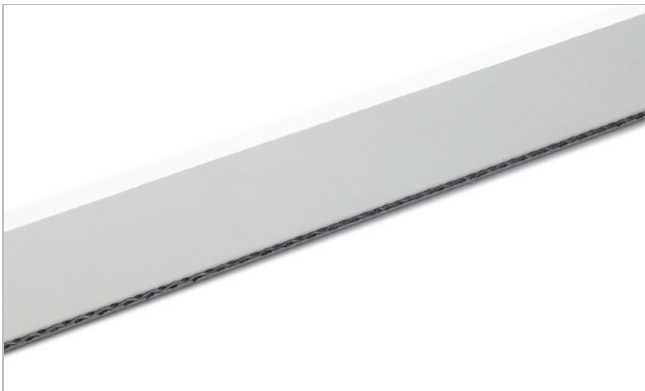
Distribution centers

Applications

Live roller drive belt

Special features

Abrasion resistant, Adhesive-free joint, Constant coefficient of friction, Dimensionally stable, Energy saving, High modulus of elasticity, Low temperature resistant, Simple and fast joining method



| Product Construction / Design | |
|-------------------------------|------------------------|
| Pulley side material | Hamid |
| Pulley side surface | Fine textile structure |
| Pulley side color | White |
| Traction layer (material) | Polyester (PET) |
| Number of Fabrics | 1 |
| Opposite side material | Hamid |
| Opposite side surface | Fine textile structure |
| Opposite side color | White |

| Product characteristics | |
|-----------------------------------|---------------------------------|
| Drive determination | Double-sided power transmission |
| Antistatically equipped | Yes |
| Adhesive free joining method | Yes |
| Food suitability, FDA conformance | No |
| Food suitability, EU conformance | No |

| Technical data | | |
|--|-----------------------|---------------|
| Thickness of belt | 2.0 mm | 0.08 inch |
| Mass of belt (belt weight) | 2.2 kg/m ² | 0.451 lb/sqft |
| Tensile force for 1% elongation (k1% after running in) per unit of width (Habasit standard SOP3-013) | 24 N/mm | 137 lbf/in |
| Nominal peripheral force per unit of width | 48 N/mm | 274 lbf/in |
| Min. operating temperature admissible (continuous) | -30 °C | -22 °F |
| Max. operating temperature admissible (continuous) | 70 °C | 158 °F |
| Seamless manufacturing width | 1100 mm | 43.31 inch |

All data are approximate values under standard climatic conditions: 23°C/73°F, 50% relative humidity (DIN 50005/ISO 554).

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Joining related properties

[Link to JDS:](#)

| Joining method | | Flexproof 10 x 120 |
|---|-------------------|-----------------------|
| Pulley diameter (minimum) | mm <i>inch</i> | 60 2.36 |
| Pulley diameter minimum with counter flection | mm <i>inch</i> | 60 2.36 |

Chemical resistance

Link to 'Chemical resistance information': <https://rims.habasit.com>

Mode of use or conveyance

Live roller drive

Calculations

With power transmission belts a calculation at least of the belt width and initial elongation is highly recommended. For this serves the Habasit SeleCalc calculation program. The easiest way is to have belt drives calculated by Habasit representatives.

Recommendation

Follow the Installing and Maintenance Instructions which are supplied with each product delivery

Protect belts from sunlight/UV-radiation/dust and dirt. Store spare belts in a cool and dry place and if possible in their original packaging. Check Link for Storage requirements:

["https://tdm.habasit.com/pds/en-us/Storage%20of%20Habasit%20material.pdf"](https://tdm.habasit.com/pds/en-us/Storage%20of%20Habasit%20material.pdf)

Do not force belt on pulleys, Do not twist or fold belt, Keep belt edges free of any installation/machine contact, This product has not been tested according to ATEX standards (atmospheres with explosion risk - ATEX 95 regulation or EU directive 2014/34/EU) and therefore is subject to user's analysis in the respective environment

| | |
|-------------|--|
| Group | Polyester Power Transmission Belts |
| Sub-Group | TCF Polyester Power Transmission Belts |
| Item number | H010101841 |

Disclaimer

Product Application Disclaimer (valid for ALL Habasit products and mentioned on all PDS)

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