

# Light Conveyor Belts HNB-5E

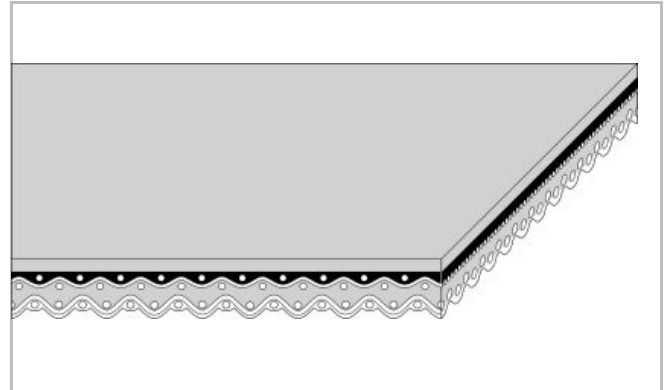
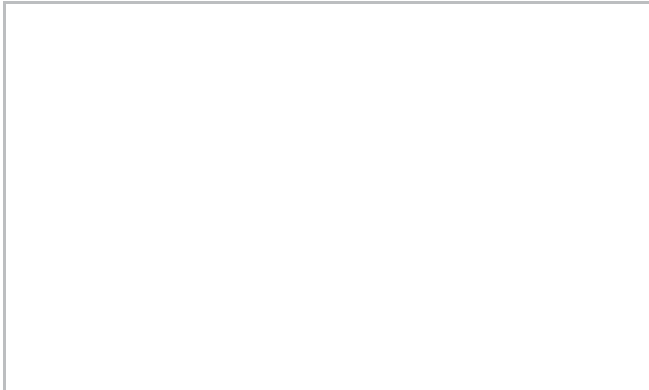


## Applications

Miniconveyor belt, Packaging belt, Processing belt, Weighing belt

## Special features

Cut resistant, Oil resistant



Product Construction / Design	
Conveying side material	Thermoplastic polyurethane (TPU)
Conveying side surface	Smooth
Conveying side property	Non-adhesive
Conveying side color	Green (Habasit green)
Traction layer (material)	Polyester (PET)
Number of Fabrics	2
Pulley side material	Polyester (PET) fabric
Pulley side surface	Impregnated fabric
Pulley side property	Non-adhesive
Pulley side color	Gray

Product characteristics	
Antistatically equipped	Yes
Adhesive free joining method	Yes
Flammability	No specific flammability prevention property
Food suitability, FDA conformance	Yes - acc. to 21CFR parts 170 - 199. Details/restrictions see Habasit food compliance declaration.
Food suitability, USDA recommendations	No use intended
Food suitability, EU conformance	Yes - acc. to Regulation (EC) No. 1935/2004 as well as Regulation (EU) No. 10/2011 and/or other relevant food contact legislation. Details/restrictions see Habasit food compliance declaration.
Other conformance/approval	JFRL passed. Contact your Habasit representative for detailed information.

# Light Conveyor Belts

## HNB-5E



Technical data		
Thickness of belt	1.30 mm	0.05 inch
Mass of belt (belt weight)	1.5 kg/m <sup>2</sup>	0.307 lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	6.5 N/mm	37 lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	4.6 N/mm	26 lbf/in
Min. operating temperature admissible (continuous)	-15 °C	5 °F
Max. operating temperature admissible (continuous)	80 °C	176 °F
Coefficient of friction (running side / steel driving pulley)	0.15 -	
Coefficient of friction (running side / driving pulley with friction cover)	0.35 -	
Coefficient of friction (running side / pickled steel slider bed)	0.20 -	
Coefficient of friction (running side / phenolic resin slider bed)	0.15 -	
Coefficient of friction (running side / stainless steel slider bed)	0.15 -	
Seamless manufacturing width	4000 mm	157 inch

### Joining related properties

Joining method	
Flexproof 20 x 80	Master joining method for standard applications
Flexproof 10 x 80	Master joining method for nosebar / high stress applications
Thermofix	Optional joining method - not applicable for direct food contact applications acc. to EU and FDA regulations
Clipper UCM-36 XSP	Optional joining method
Clipper UCM-36 SLXSP	Optional joining method

[Link to JDS:](#)

Joining method		Flexproof 20 x 80	Flexproof 10 x 80	Thermofix	Clipper UCM-36 XSP	Clipper UCM-36 SLXSP
Nosebar radius (minimum)	mm inch		4 0.157			
Pulley diameter (minimum)	mm inch	15 0.59	15 0.59		50 1.97	
Pulley diameter minimum with counter flection	mm inch	20 0.79	20 0.79		50 1.97	
Admissible tensile force per unit of width	N/mm lbf/in	11 63	11 63			
Admissible tensile force per unit of width at max. operating temperature	N/mm lbf/in	4.6 26	7.0 40			
Slider bed suitable		Yes	Yes	Yes	Yes	Yes
Carrying rollers suitable		Yes	Yes	Yes	Yes	Yes
Troughed installation suitable		No	No		No	No
Power turns / curved installations		No	No		No	No
Nosebar suitable		Yes	Yes		No	No
Low noise applications		No	No	No	No	No
Metal detector suitable		No	No	No	No	No

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

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### Chemical resistance

Link to 'Chemical resistance information': <http://www.habasit.com/en/chemical-resistance.htm>

### Mode of use or conveyance

Accumulation, Horizontal

### Calculations

For most applications calculation is not required. Should you still need a calculation: please ask Habasit.

### Recommendation

Do not go below initial elongation (epsilon) ~ 0.3%, Install the slack belt and tension until running perfectly under the full belt load

For details consult 'Storage and handling requirements for belts and machine tapes' or contact Habasit, 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.

This product has not been tested according to ATEX standards (atmospheres with explosion risk - ATEX 95 regulation or EU directive 94/9) and therefore is subject to user's analysis in the respective environment

Group	TPU Belts
Sub-Group	-
Item number	H010100308

### Disclaimer

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

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