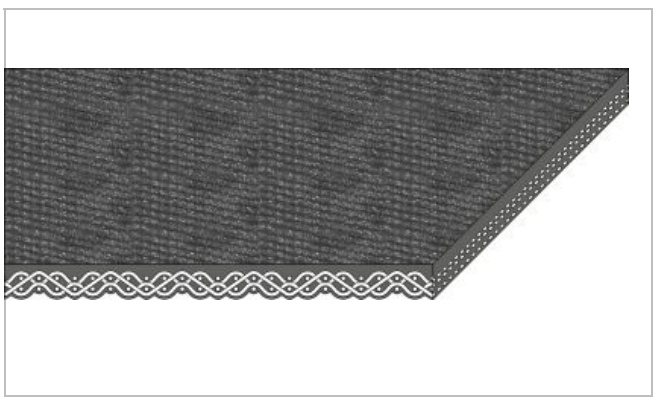
Heavy Conveyor Belts
APH120FBS

Main industry segments
Airport, Distribution centers, Parcel distribution / Overnight carrier

Special features
Flame retardant, High strength



Product Construction / Design	
Conveying side material	Polyester fabric (PET) impregnated with polyvinylchloride (PVC)
Conveying side surface	Impregnated fabric
Conveying side property	Non-adhesive
Conveying side color	Black
Traction layer (material)	Polyester (PET)
Number of Fabrics	1
Pulley side material	Polyester fabric (PET) impregnated with polyvinylchloride (PVC)
Pulley side surface	Impregnated fabric
Pulley side property	Non-adhesive
Pulley side color	Black

Product characteristics	
Antistatically equipped	No
Adhesive free joining method	Yes
Flammability	Flame retardant, Flame retardant to ASTM D-378
Food suitability, FDA conformance	No
Food suitability, EU conformance	No

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Technical data				
Thickness of belt	3.2	mm	*0.126*	*inch*
Mass of belt (belt weight)	2.9	kg/m²	*0.590*	*lb/sqft*
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	21	N/mm	*120*	*lbf/in*
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	8.3	N/mm	*47*	*lbf/in*
Min. operating temperature admissible (continuous)	-18	°C	*0*	*°F*
Max. operating temperature admissible (continuous)	82	°C	*180*	*°F*
Coefficient of friction (pulley side / steel driving pulley)	0.15	-		
Coefficient of friction (pulley side / driving pulley with friction cover)	0.35	-		
Coefficient of friction (pulley side / pickled steel slider bed)	0.35	-		
Coefficient of friction (pulley side / phenolic resin slider bed)	0.35	-		
Coefficient of friction (pulley side / stainless steel slider bed)	0.25	-		
Seamless manufacturing width	1829	mm	*72.00*	*inch*
On request other seamless manufacturing width	1524	mm	*60*	*inch*

Joining related properties

Joining method	
Clipper #2HT	Master joining method for standard applications
Flexproof 10 x 80	Optional joining method
Thermofix	Optional joining method

Link to JDS:

Joining method		Clipper #2HT	Flexproof 10 x 80	Thermofix
Pulley diameter (minimum)	mm *inch*	79 *3.10*	76 *3.00*	76 *3.00*
Pulley diameter minimum with counter flection	mm *inch*	79 *3.10*	76 *3.00*	76 *3.00*
Admissible tensile force per unit of width	N/mm *lbf/in*	21 *120*		
Admissible tensile force per unit of width at max. operating temperature	N/mm *lbf/in*	6.7 *38*		
Slider bed suitable		Yes	Yes	Yes
Carrying rollers suitable		Yes	Yes	Yes
Powerturns / curved installations		No	No	
Knife-edge (nosebar) suitable		No	No	
Low noise applications		No	No	No
Metal detector suitable		No	No	No

All data are approximate values under standard climatic conditions: 23°C/73°F, 50% relative humidity (DIN 50005/ISO 554). Limited representative testing based on a standard configuration is carried out to estimate minimum pulley diameters. Please contact Habasit for specific guidance regarding non-standard applications, including, but not exclusively, when profiles or cleats are used, or if the belt working temperature is close to the limits listed in this document.

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

Mode of use or conveyance
Diverting, 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) ~ 0.5%, Install the slack belt and tension until running perfectly under the full belt load

Store spare belts in a cool and dry place and if possible in their original packaging. Protect spare belts from sunlight/UV-radiation/dust/dirt! Check Link for Storage requirements:
"https://tdm.habasit.com/pds/en-us/Storage%20of%20Habasit%20material.pdf"

No danger and limitation

Group	Woven Belts Flame Retardant Belts
Item number	H250000245

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