

# HabaSYNC® Open-end Timing Belts

## 14M-S-01



### Main industry segments

Materials handling and automation

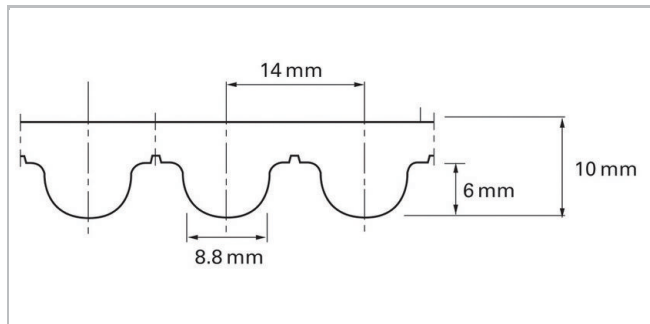
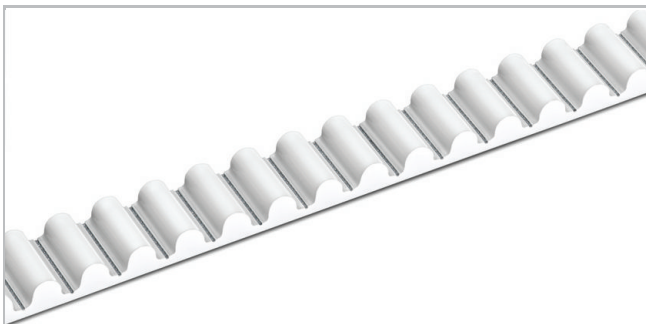
### Belt applications

Metal stamping lines, overhead and vertical lifting, automated storage and retrieval systems, pallet handling, reciprocal conveyors, pick-n-place transports, heavy parts conveying, XYZ axis drives, wood panel conveying, brick and block conveying

### Description

Curvilinear teeth are spaced on 14 mm centers.

Thermoplastic polyurethane with 92 Shore A provides excellent wear resistance on the tooth side and conveying side of the belt. High strength cords are encapsulated in the urethane to insure accurate meshing and efficient single or bi-directional movement. Our material also provides high lubricity, which yields low noise and vibration free meshing in and out of the drive pulley. Standard color is white, black is available on request.



Sketch of basic shape according to ISO 13050

### Belt data

Belt slitting width, nominal		Admissible tensile force, open belt		Admissible tensile force, joined belt		Tensile force for 1% elongation		Mass of belt (belt weight)	
mm	inch	N	lbf	N	lbf	N	lbf	kg/m	lb/ft
20	0.79	4000	899	2000	450	10000	2248	0.22	0.15
25	0.98	5000	1124	2500	562	12500	2810	0.28	0.19
30	1.18	6000	1349	3000	674	15000	3372	0.34	0.23
55	2.2	10973	2467	5486	1233	27431	6167	0.62	0.42
85	3.3	16898	3799	8448	1899	42243	9497	0.95	0.64

**Standard belt widths** are equal to, or multiples of the nominal belt slitting width.

Maximum belt width (150 mm / 6 inch): All **non-standard belt widths** can be slitted on request.

**Temperature range** of matrix material: -20 to 80 °C (-4 to 176 °F)

**The tensile force for 1% elongation (k1% static) per unit of width** determines the stress-strain behavior of the belt. It defines the resulting strain if a certain stress is applied and vice versa. This value corresponds to the belt without joint.

**The ultimate tensile strength (or breaking strength)** for the widest slitting width mentioned above is 82350 N.

**The admissible tensile force** of a running belt is defined by the strength of the joint or by the strength of the belt without joint. Habasit defines an admissible belt force (without joint) for all belts, which always corresponds with a belt elongation of 0.4 %. Joined belts are calculated with half admissible force. Please contact Habasit for detailed information and calculations.

All data are approximate values under **standard climatic conditions**: 23 °C / 73 °F, 50% relative humidity (DIN 50005 / ISO 554), and are based on the Master Joining Method.

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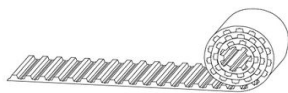
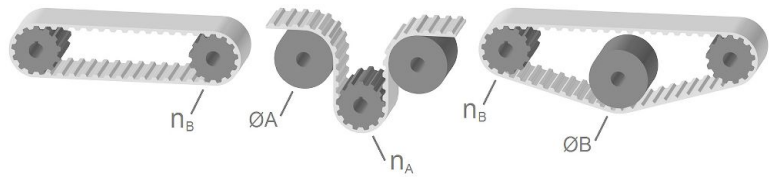


### Belt options

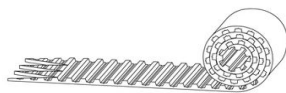
Description		ØA		n <sub>A</sub>	ØB		n <sub>B</sub>
		mm	inch		mm	inch	
Tooth side: unprocessed matrix material Conveying side: unprocessed matrix material	U	180	7.07	25	115	4.53	25
Tooth side: unprocessed matrix material Conveying side: Polyamide fabric, green	U P	180	7.07	25	115	4.53	25
Tooth side: Polyamide fabric, green Conveying side: unprocessed matrix material	P U	180	7.07	25	115	4.53	25
Tooth side: Polyamide fabric, green Conveying side: Polyamide fabric, green	P P	180	7.07	25	115	4.53	25

For **detailed material properties** (e.g. coefficient of friction, colors, etc.) please contact your Habasit representative.

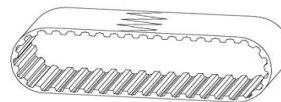
**A** = with counter flection  
**B** = without counter flection



Open ended (O)



Prepared ends (P)



Joined endless (J)

### Disclaimer

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

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