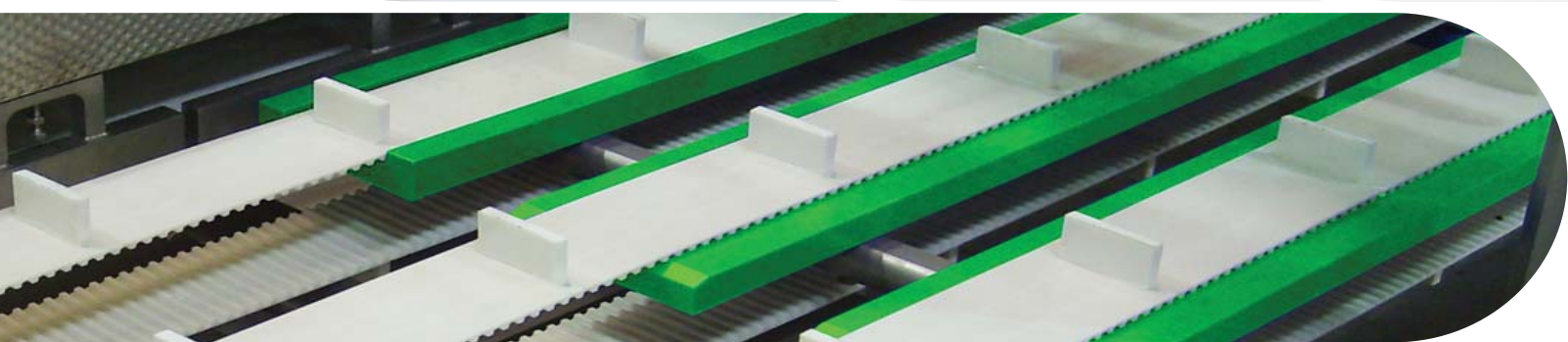


# HabaSYNC® Timing Belt Accessories

Habasit – Solutions in motion

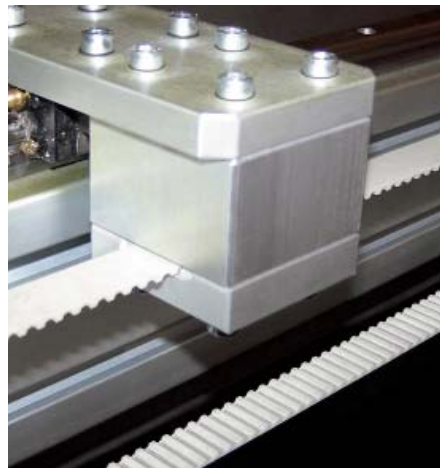
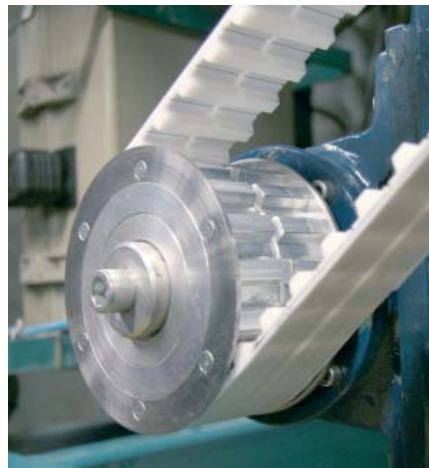
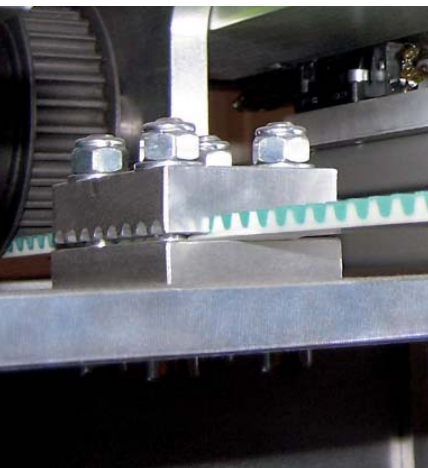
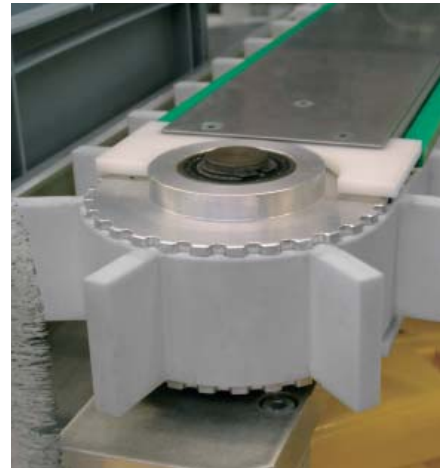
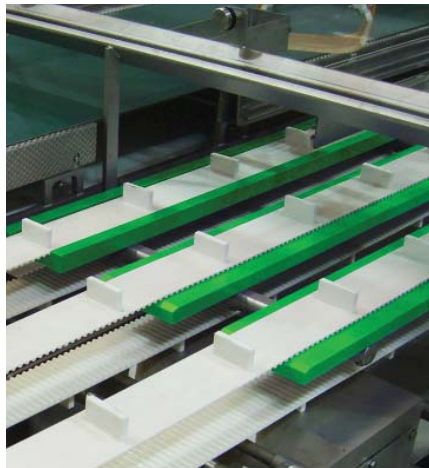


The demand for timing belts continues to grow as new industrial applications rely on the need for accurate synchronization for indexing, timing and exact product placement.

Solutions to these applications are created when knowledge and capabilities intersect. At Habasit, we draw on the knowledge and expertise we have accumulated from across all the products we produce to be your partner in design and someone you can count on for your belt, pulley, guides and clamp needs.

Whether your application is conveying, linear positioning or power transmission we can help.

Whether your project is at start up or production, Habasit sales engineers and technical support personnel can assist to insure you are getting the right pulley, clamp or guide package for your timing belt application.



Habasit can provide the belt and matching pulley system assuring you the quality standards you need for effective smooth belt tooth/pulley entry and exit in single direction or bi-directional applications.

Made to order pulleys are offered in the following pitches:

T Series	AT Series	Imperial	HTD Series
T5	AT5	XL	5M
T10	AT10	L	8M
T20	AT20	H	14M
		XH	



Types of pulleys:

- No flange; no hub
- Flanges; with hub
- Bar stock
- No flange; with hub
- Flanges; no hub
- Custom

Habasit pulleys with the following features can be provided:

- Pulley with pilot bore only
- Bolted on flanges
- Keyways
- Counterbores
- Mounting holes
- Self tracking grooves
- Single, double or no flanges
- Set screws
- Lightening holes
- Hubs

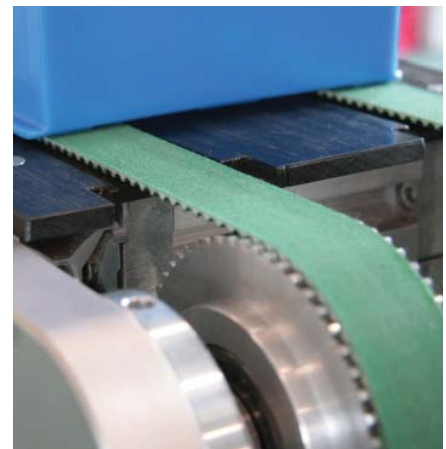


Pulley materials and finishes:

Available finishes	Aluminum	Steel	Stainless Steel
Clear anodize	X		No coatings Applied to stainless steel
Black anodize	X		
Hardcoat anodize	X		
Electroless nickel	X	X	
Clear zinc		X	
Black oxide		X	
Black zinc		X	



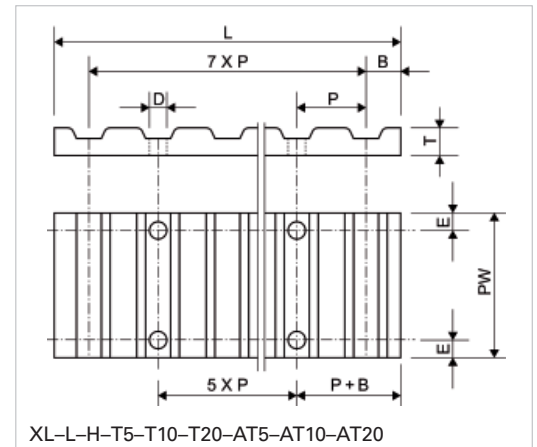
Tooth Profile	Min. # of Teeth	Max. # of Teeth	Type	Common Use
XL	10	114	Standard	Conveying
L	10	84	Standard	Conveying
H	14	63	Standard	Conveying
XH	20	36	Standard	Conveying
T5	10 (10)	114 (55)	Standard (zero backlash)	Conveying
T10	12 (21)	80 (50)	Standard (zero backlash)	Conveying
T20	15	45	Standard	Conveying
AT5	15 (15)	119 (114)	Standard (zero backlash)	Conveying and linear positioning
AT10	12 (12)	79 (79)	Standard (zero backlash)	Conveying and linear positioning
AT20	15	40	Standard	Conveying and linear positioning
HTD5	13	160	Standard	Conveying
HTD8	19	100	Standard	Conveying
HTD14	28	45	Standard	Conveying and linear positioning



## Clamping plates – an alternative joining method

For use in applications where the belt moves in a bi-directional fashion. In this type of application, the belt joint never rotates around the pulley. It simply moves backwards and forwards.

Clamps are usually made out of aluminium. The graph and data tables show design insight with all the data needed for the manufacturing of clamping plates in the HabaSYNC® pitches offered.



## Clamping plates

Pitch	E (in)	D (in)	B (in)	L (in)	T (in)
XL (0.200")	0.24	0.22	0.14	1.67	0.31
L (0.375")	0.31	0.35	0.2	3.02	0.59
H (0.500")	0.39	0.43	0.35	4.21	0.87

Pitch	E (mm)	D (mm)	B (mm)	L (mm)	T (mm)
T5 (5 mm)	6	5.5	3.2	41.8	8
T10 (10 mm)	8	9	5	80	15
T20 (20 mm)	10	11	10	160	20
AT5 (5 mm)	6	5.5	3.2	41.8	8
AT10 (10 mm)	8	9	5	80	15
AT20 (20 mm)	10	11	10	60	20
HTD5	6	5.5	3.25	41.8	8
HTD8	8	9	5	66	15
HTD14	10	11	9	116	22



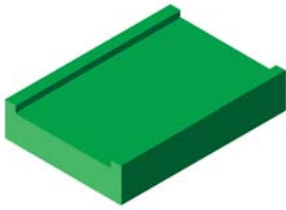
## Plate widths (PW)

Belt width in inches	0.25	0.375	0.500	0.750	1.000	1.500	2.000	3.000	4.000
XL Plate width (in)	-	1.12	-	-	-	-	-	-	-
L Plate width (in)	-	-	1.54	1.77	2.03	1.37	3.03	-	-
H Plate width (in)	-	-	1.77	2.00	2.26	2.75	3.26	4.25	5.27

Belt width in mm	25	50	75	100
T5 Plate width	44	-	-	-
T10 Plate width	50	75	100	125
T20 Plate width	56	81	106	132
AT5 Plate width	44	-	-	-
AT10 Plate width	50	75	100	125
AT20 Plate width	56	81	106	132



Belt width in mm	10	15	20	25	30	50	55	3.000
HTD5	-	34	-	44	-	-	-	-
HTD8	35	40	45	50	55	75	-	-
HTD14	-	-	-	56	-	-	3.26	86

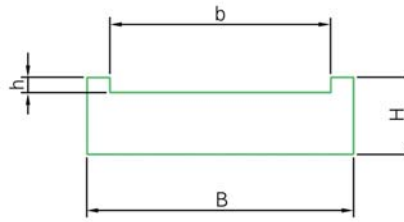


**Imperial F Type Guides**

Belt profile L	Belt profile H	B (in.)	b (in.)	H (in.)	h (in.)
1	1	1.36	1.05	0.60	0.12
1.5		1.85	1.54	0.60	0.12
2	2	2.36	2.05	0.79	0.12
3	3	3.38	3.07	0.79	0.12

**Metric F Type Guides T20 and AT20**

Belt profile T20	Belt profile AT20	B (mm)	b (mm)	H (mm)	h (mm)
25	25	34	26	20	7
32	32	41	33	20	7
50	50	59	51	20	7

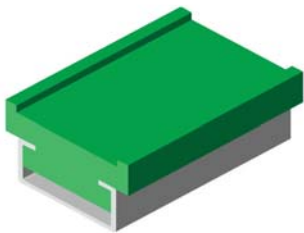


**Metric F Type Guides T5 and AT5**

Belt profile T5	Belt profile AT5	B (mm)	b (mm)	H (mm)	h (mm)
25	25	34	26	10	1.8 (AT5 - 2.2)
32	32	41	33	10	1.8 (AT5 - 2.2)

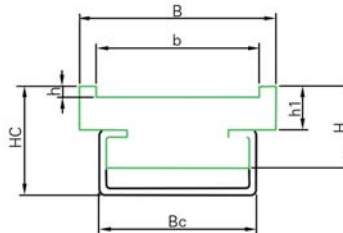
**Metric F Type Guides T10 and AT10**

Belt profile T10	Belt profile AT10	B (mm)	b (mm)	H (mm)	h (mm)
25	25	34	26	15	3.8
32	32	41	33	15	3.8
50	50	59	51	15	3.8
75	75	84	76	15	3.8
100	100	109	101	15	3.8



**Imperial FC Type Guides**

Belt profile L	Belt profile H	B (in.)	Bc	b	Hc	H	h1	h	Metallic Profile Type
1	1	1.36	1.11	1.05	0.83	0.67	0.35	0.12 (H=0.15)	C-5
1.5		1.85	1.50	1.54	1.06	0.87	0.35	0.12	C-9
2	2	2.36	1.50	2.05	1.06	0.87	0.35	0.12 (H=0.15)	C-9



**Metric FC Type Guides T5 and AT5**

Belt profile T5	Belt profile AT5	B (in.)	Bc	b	Hc	H	h1	h	Metallic Profile Type
25	25	34	28	26	19	15	7	1.8 (AT5=2.2)	C-5
32	32	41	38	33	25	20	7	1.8 (AT5=2.2)	C-9

**Metric FC Type Guides T10 and AT10**

Belt profile T10	Belt profile AT10	B (in.)	Bc	b	Hc	H	h1	h	Metallic Profile Type
25	25	34	28	26	21	17	9	3.8	C-5
32	32	41	38	33	27	22	9	3.8	C-9
50	50	59	38	51	27	22	9	3.8	C-9

**Metric FC Type Guides T20 and AT20**

Belt profile T20	Belt profile AT20	B (in.)	Bc	b	Hc	H	h1	h	Metallic Profile Type
25	25	34	28	26	24	20	12	7	C-5
32	32	41	38	33	30	25	12	7	C-9
50	50	59	38	51	30	25	12	7	C-9



### Customers first

At Habasit we understand that our success depends on your success. This is why we offer solutions, not just products; partnership, not just sales. Since our foundation in 1946, Habasit has brought this understanding of customer needs to life every day and for every application. That's why we're the No. 1 in belting today. Worldwide. Learn more on [www.habasit.com](http://www.habasit.com)

### Committed to innovation

Habasit is strongly committed to the continuous development of innovative, value-added solutions. Over 3% of our staff are dedicated exclusively to R&D, and our annual investment in this area exceeds 8% of turnover.

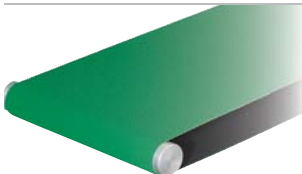
### Certified for quality

We deliver the highest quality standards not only in our products and solutions, but also in our employees' daily work processes. Habasit AG is certified according to ISO 9001:2000.



### Worldwide leading product range

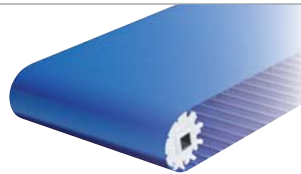
Habasit offers the largest selection of belting, conveying, processing and complementary products in the industry. Our response to any request is nothing less than a specific, tailor-made solution.



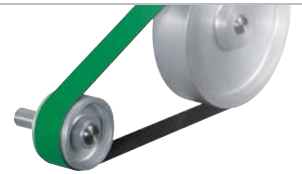
Fabric based conveyor and processing belts  
**HabaFLOW®**



Plastic modular belts  
**HabasitLINK® /KVP®**



Positive drive conveyor and processing belts  
**Habasit Cleandrive™**



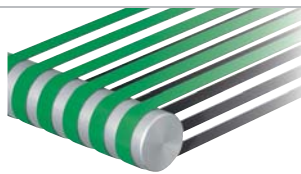
Power transmission belts  
**HabaDRIVE®**



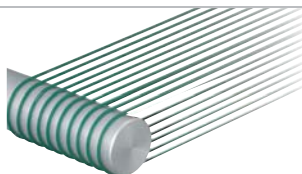
Timing belts  
**HabaSYNC®**



Chains (slat and conveyor chains)  
**HabaCHAIN®**



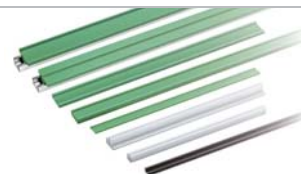
Machine tapes



Round belts



Seamless belts



Profiles, Guides, Wear strips



Fabrication tools (joining tools)



Gearmotors Electric motors

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**Rossi** is one of Europe's largest manufacturers of gear reducers, gearmotors, inverters, standard and brakemotors, and is a member of the Habasit Group.

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