

# HabaSYNC® Timing Belts

# Habasit-Solutions in motion





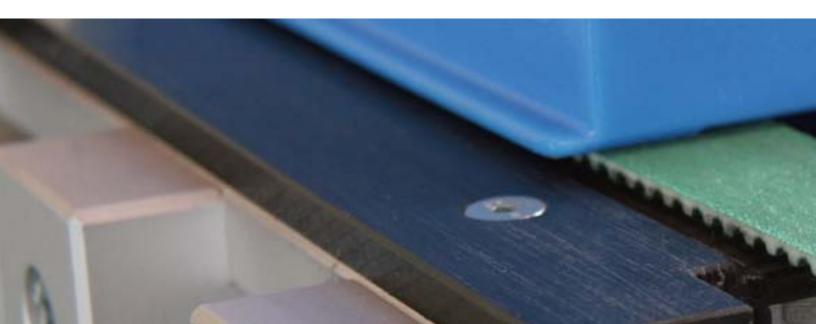
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#### Product liability, application considerations

If the proper selection and application of Habasit products are NOT recommended by an authorized Habasit sales specialist, the selection and application of Habasit products, including the related area of product safety, are the responsibility of the customer.

All indications / information are recommendations and believed to be reliable, but no representations, guarantees, or warranties of any kind are made as to their accuracy or suitability for particular applications. The data provided herein are based on laboratory work with small-scale test equipment, running at standard conditions, and do not necessarily match product performance in industrial use. New knowledge and experiences can lead to modifications and changes within a short time without prior notice.

BECAUSE CONDITIONS OF USE ARE OUTSIDE OF HABASIT'S AND ITS AFFILIATED COMPANIES CONTROL, WE CANNOT ASSUME ANY LIABILITY CONCERNING THE SUITABILITY AND PROCESS ABILITY OF THE PRODUCTS MENTIONED HEREIN. THIS ALSO APPLIES TO PROCESS RESULTS / OUTPUT / MANUFACTURING GOODS AS WELL AS TO POSSIBLE DEFECTS, DAMAGES, CONSEQUENTIAL DAMAGES, AND FURTHER-REACHING CONSEQUENCES.



# Introduction to HabaSYNC® Timing Belts

### Our experience

For over 60 years Habasit has invented new conveying options by combining leading edge materials, committed research and development, material and textile knowledge, advanced manufacturing processes and state-of-the-art equipment to deliver solutions to a broad range of industries around the world.

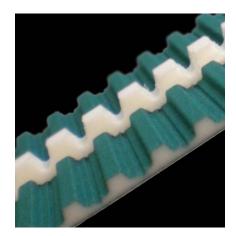
Base HabaSYNC® Timing Belts are produced at a new, state-of-the-art plant where ongoing investments mean new and better products, innovative product designs, and global competitiveness.

Additionally, our broad international coverage means that affiliated companies and their nearby partners can provide special fabrication to customize HabaSYNC® Timing Belts to meet the demanding needs of your applications.

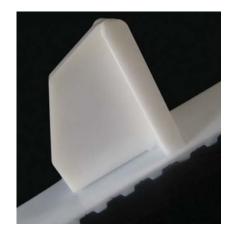
High quality product, competitive worldwide pricing, industry segment specialists and responsive technical and customer service teams provide the needed support that will enable Habasit to become a leading provider of urethane timing belts to global customers.

As we join alongside our well known flat belt and plastic modular belt products, Habasit can now provide customers with the broadest choice of options for conveying and linear positioning applications.

Habasit with HabaSYNC® – solution providers worldwide.









# Industries served

HabaSYNC® Timing Belts are the right choice for applications where traditional belt designs are unable to provide synchronization. The HabaSYNC® Timing Belt can be made to your exact dimensional needs, and complemented with guides, profiles and covers to ensure your product or component is always in the right place at the right time.

### **Business machines**

- Large format printers
- Engineering plotters
- Tape libraries
- Document storage systems
- Copiers
- Lifts and elevating devices
- X/Y and XYZ devices
- Labeling equipment

# Printing, paper, postal

- Folder-gluers
- Corrugating lines
- Collators
- Cutting lines
- Napkin folders
- Hygiene product manufacture
- Diaper lines
- Document feed systems
- Inserters
- Tissue and paper towel lines

### Materials handling

- Automatic storage and retrieval systems
- Induction conveyors
- Gantry cranes
- Lifting assemblies / vertical lifts
- Divertors
- Elevators

#### Wood

- Veneer conveying
- Window manufacturing
- Wood panel conveying
- Grinding and sanding lines
- Exercise equipment
- Stop gauge measuring equipment
- Diagonal cutting saw lines

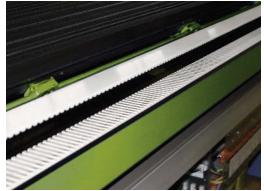
### General conveying

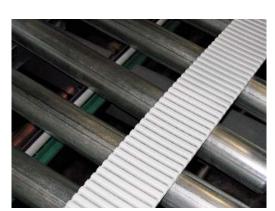
- Plastic tote conveying
- Glass handling, cutting, bevelling and printing lines
- Ceramic and other tile handling
- Semiconductor wafers
- Circuit boards
- Solar panels
- Roofing shingle lines

# **Packaging**

- Case packers
- Horizontal inserters
- Vertical inserters
- Accumulation lines
- Pick and place packing
- Cartoners
- Box making

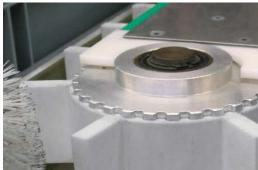












# **Textile**

- X/Y fabric cutters
- Flat knit machines
- Circular knit machines
- Textile screen printing
- Crosslapper lines
- Nonwovens
- Embroidery machines
- Monogram lines

# Food

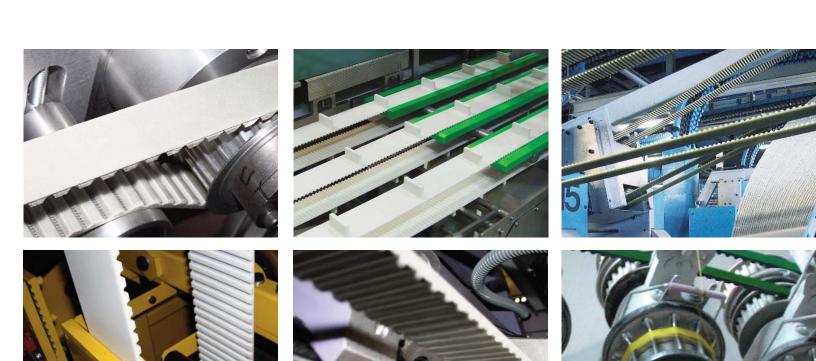
- Tray conveying
- Produce sizing lines
- Produce sorting lines
- Snack lines
- Candy lines
- Filling lines
- Frozen food lines

# **Automotive**

- Tire manufacturing lines
- Sheet metal stamping lines
- Car wash X/Y drives

# **Automation**

- Door openers
- Garage openers
- Gate openers
- Robotic X/Y movement
- Semiconductor assembly
- Vending machines
- Tenoner lines



# HabaSYNC® linear belt specifications

		Per Unit	Admis		tensile n end	force,	Admis		tensile d belt	force,
		of Belt	Steel		Arar	nide	Ste	eel	Aramide	
		Width	N	lbf	N	lbf	N	lbf	N	lbf
Metric pitches - trapezoidal shapes T type	T5 5mm 12 mm 22 mm	25mm	840	189	840	189	420	94	420	94
	TT5 A 5.0 mm 1.6 mm 2.8 mr	10mm	N/A	N/A	600	135	N/A	N/A	300	67
	T10 10mm  10mm  15mm  15mm  15mm	25mm	2200	495	2000	450	1100	247	1000	225
	T20 20mm  S5 mm  S mm	25mm	3500	787	3500	787	1750	393	1750	393
Metric pitches - trapezoidal shapes AT type	AT5 5.5 mm 1.12 mm 2.7 mm	25mm	1750	393	1275	286	875	197	640	143
	AT5P 5.0 mm 17.2 mm 2.7 mm	25mm	2200	495	N/A	N/A	1100	247	N/A	N/A
	AT10 10mm	25mm	3500	787	3500	787	1750	393	1750	393
	AT10P 10.0 mm 15.5 mm 15.5 mm	25mm	3000	1124	N/A	N/A	1124	562	N/A	N/A
	ATM10 10.0 mm 15.5 mm 45 mm	25mm	2800	585	N/A	N/A	1300	292	N/A	N/A
	AT20 20mm 3.0 mm	25mm	5000	1124	N/A	N/A	2500	562	N/A	N/A
	ATM20	25mm	3500	787	N/A	N/A	1750	393	N/A	N/A

<sup>(1)</sup> The values represented for minimum pulley diameters are for steel cords. Minimum pulley requirements for aramide can be found on the specific pitch PDS pages located at www.habasync.com - Products - Product Data Sheets.

Tensile force for 1% elongation				Mini	mum	pulley	/ size		TPU		abri acin		PT= Polyamide tooth side		
	Steel	Ara	mide	Ø	Α*	n <sub>A</sub> *	Ø	B*	n <sub>B</sub> *	Standard	d FDA (dry)				
N	l lbf	N	lbf	mm	inch		mm	inch		92 Shore A	88 Shore A	PT	PC	AA	PC= Polyamide conveying
210	00 472	1400	315	30	1.18	15	30	1.18	12	X	X	X	X	X	side  AA= Anti-static fabric both
N/	A N/A	1000	225	30	1.18	15	30	1.18	12	-	X	-	-	-	sides
550	00 123	6 3333	749	60	2.36	20	60	2.36	12	X	X	X	X	X	(+) (+)
87!	50 196	7 5833	3 1311	120	4.72	25	120	4.72	15	X	-	X	X	-	nA ØA
43	75 984	3285	738	60	2.36	25	25	0.98	15	X	-	X	X	X	n + + +
550	00 123	6 N/A	N/A	60	2.36	6				X	-	X	X	-	nB ØB
87!	50 196	7 5893	3 1311	120	4.72	25	50	1.97	15	X	-	X	X	X	Coefficient of Friction Tooth Side
125	00 281	O N/A	N/A	180	7.09	25	120	4.72	18	Χ	-	Χ	X	-	Urethane vs. pickled steel 0.5 to 0.7
650	00 146	1 N/A	N/A	120	4.75	25	50	1.97	15	X	-	Χ	X	-	Urethane vs. UHMW 0.3 to 0.5
125	00 281	O N/A	N/A	180	7.09	25	120	4.72	18	X	-	X	Χ	-	Polyamide vs. pickled steel 0.2 to 0.4
87!	50 196	7 N/A	N/A	180	7.09	25	120	4.72	18	X	-	X	X	-	Polyamide vs. UHMW 0.1 to 0.3

Wider belt widths are available and are multiples of the nominal belt width shown above. For the latest updates and additional archived information on HabaSYNC® belts, visit www.habasync.com.

# HabaSYNC® linear belt specifications

			Per Unit	Admis	ssible t oper	ensile end	force,	Admissible tensile for joined belt			
			of Belt	Ste	eel	Arar	nide	Ste	eel	Arar	nide
			Width	N	lbf	N	lbf	N	lbf	N	lbf
Imperial pitches - trapezoidal shapes	XL 0.200"	0.200° 5.08 mm 0.142° 0.055° 3.6 mm 1.27 mm	1.00"	840	189	840	189	420	94	420	94
	L 0.375"	0.375* 9.525 mm 0.075* 0.142*	0.75"	1270	286	1270	286	635	143	635	143
		0.174* 1.9 mm	1.00"	1700	382	1700	382	850	191	850	191
	H 0.500"	0.500° 12.7 mm	0.75"	1650	371	1500	337	825	185	750	169
		0.090° 4.3 mm	1.00"	2200	495	2000	450	1100	247	1000	225
	XH 0.875"	0.875' 22.2 mm 0.441' 1.2 mm 7.34 mm	1.00"	3500	787	-	-	1750	393	-	-
Metric pitches -	HTD5		10mm	700	157	-	-	350	79	-	-
curvilinear shapes HTD type		3.0 mm 3.6 mm	15mm	1120	251	-	-	560	126	-	-
			25mm	1750	393	-	-	875	197	-	-
	HTD8	8.0 mm 1 3.4 mm 5.6 mm	10mm	1400	315	-	-	700	157	-	-
			12mm	1400	315	-	-	700	157	-	-
			15mm	2100	472	-	-	1050	236	-	-
		"5.0 mm"	25mm	3500	787	-	-	1750	393	-	-
			85mm	12000	2698	-	-	6000	1349	-	-
	HTD14		20mm	4000	900	-	-	2000	450	-	-
			25mm	5000	1124	-	-	2500	562	-	-
		14.0 mm	30mm	6000	1349	-	-	3000	674	-	-
		8.8 mm 10.0 mm	40mm	7980	1794	-	-	3990	896	-	-
			55mm	10973	2467	-	-	5486	1232	-	-
			85mm	16898	3800	-	-	8448	1897	-	-

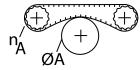
<sup>(1)</sup> The values represented for minimum pulley diameters are for steel cords. Minimum pulley requirements for aramide can be found on the specific pitch PDS pages located at www.habasync.com - Products - Product Data Sheets.

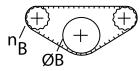
	ile for elong	rce for ation	1%	ſ	Minim	ium p	ulley	sizes <sup>(1</sup>	)	TPU	Fabric Facings			
Ste	eel	Aran	nide	Ø	Δ*	$n_A^*$	ØI	B*	n <sub>B</sub> *	Standard	FDA (dry)	PT	PC	АА
N	lbf	N	lbf	mm	inch	teeth	mm	inch	teeth	92 Shore A	88 Shore A	ГІ	FC	AA
2100	472	1400	315	30	1.18	15	30	1.18	12	X	X	Χ	X	-
3106	696	2116	476	60	2.36	20	60	2.36	15	X	X	X	X	-
4250	955	2833	637	60	2.36	20	60	2.36	15	X	X	X	X	-
4000	899	2500	562	80	3.15	20	60	2.36	14	X	X	X	X	-
5500	1236	3333	749	80	3.15	20	60	2.36	14	X	X	Χ	X	-
8750	1967	-	-	180	7.09	20	150	5.91	18	X	X	X	X	-
1750	394	-	-	60	2.36	16	25	0.98	16	X	-	X	X	X
2800	630	-	-	60	2.36	16	25	0.98	16	Χ	-	Χ	Χ	X
4375	984	-	-	60	2.36	16	25	0.98	16	Χ	-	Χ	Χ	X
3500	787	-	-	100	3.94	18	50	1.97	18	Χ	-	Χ	Χ	X
3500	787	-	-	100	3.94	18	50	1.97	18	Χ	-	Χ	Χ	X
5250	1180	-	-	100	3.94	18	50	1.97	18	Χ	-	Χ	X	X
8750	1967	-	-	100	3.94	18	50	1.97	18	Χ	-	Χ	X	X
30000	6744	-	-	100	354	18	50	197	18	Χ	-	Χ	Χ	X
10000	2248	-	-	180	7.08	25	115	4.53	25	Χ	-	Χ	X	X
12500	2810	-	-	180	7.08	25	115	4.53	25	Χ	-	Χ	X	X
15000	3372	-	-	180	7.08	25	115	4.53	25	X	-	Χ	X	X
19950	4485	-	-	180	7.08	25	115	4.53	25	X	-	Χ	X	X
27431	6167	-	-	180	7.08	25	115	4.53	25	X	-	Χ	X	X
42243	9497	-	-	180	7.08	25	115	4.53	25	X	-	Χ	Χ	X

PT= Polyamide tooth side

PC= Polyamide conveying side

AA= Anti-static fabric both sides





# Coefficient of Friction Tooth Side

Urethane vs. pickled steel	0.5 to 0.7
Urethane vs. UHMW	0.3 to 0.5
Polyamide vs. pickled steel	0.2 to 0.4
Polyamide vs. UHMW	0.1 to 0.3

Wider belt widths are available and are multiples of the nominal belt width shown above. For the latest updates and additional archived information on HabaSYNC® belts, visit www.habasync.com.

# HabaSYNC® features and benefits at a glance

HabaSYNC® Timing Belts are the perfect choice for applications requiring precision product or component placement. Perfectly formed teeth and accurate tooth tolerances, along with the strength delivered by steel and aramide cords, assure efficient entrance and exit from the pulley in single or bi-directional drive applications.

HabaSYNC® belts are designed to run quietly and deliver many years of performance. For higher speed applications, we offer polyamide fabric added to the tooth side (PT) for the ultimate in low noise and wear resistance.

Match the benefits of HabaSYNC® synchronized tooth engagement for accurate product placement with the correct profile or cover for conveying assistance, and you have precisely the right belt for your application.

### Structure / material qualities

- Highly abrasion resistant thermoplastic polyurethane
- Long life
- Low ageing
- High oil and ozone resistance
- Good chemical resistance

# Design advantages

- Accurate tooth position stability (precision tooth form)
- High indexing accuracy / pitch accuracy
- Low elongation, longitudinal stability
- No slip / self-tracking
- Low bearing load
- High flexibility
- Small return radius, high bending stability, small pulley diameters



# **Running properties**

- Quiet running
- High transmission ratio
- High power-to-weight ratio
- High efficiency (98% 99%)
- Belt speed up to 30 m/s / 5905 ft/min
- Maintenance free

# **Availability**

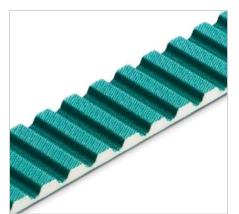
- Coil, roll and cut to length dimensions
- Large variety of standard widths available as well as special dimensions on demand
- Belts ready for joining
- Joined endless belts

# Polyamide and antistatic finishes

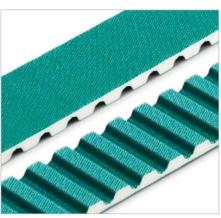
Habasit offers variations of covers to our base steel and aramide timing belts with polyamide fabric.

### Polyamide finishes

HabaSYNC® belts are available with finishes designed to optimize application performance. Polyamide fabrics provide low friction which reduces coefficient of friction (COF). A polyamide finish can also provide incremental wear resistance and offer lower noise benefits in certain applications.







Polyamide tooth side (PT)

Polyamide conveying side (PC)

Polyamide tooth and conveying side (PTC)

For the coefficient of friction values of polyamide against typical conveyor bed material, please go to www.habasync.com where specific product data sheets can be found under Products.

# **Antistatic finishes**

In many electronic related conveying applications, paper conveying applications and movement of sensitive parts, the standard TPU elastomer could build-up a static electric charge. For these applications, Habasit has created an antistatic fabric timing belt designed to dissipate the electrical charge which may build-up in the belt during service. HabaSYNC® antistatic belts are available in T5, T10, AT5, AT10, HTD5, HTD8 and HTD14 pitch.





# Support guides

HabiPLAST® guides are designed to reduce the coefficient of friction (COF) between the teeth on a timing belt and the conveyor surface.

The thermoplastic is self-lubricating and is designed to yield low noise. HabiPLAST® also offers high chemical and corrosion resistance.

HabiPLAST® guides are offered with or without raised edges and with or without tracking guides machined in the surface to accommodate G6, G10 and G13 tracking guides.

HabiPLAST® is available to fit standard HabaSYNC® belt widths and can be supplied with or without metallic inserts. For more details, please see the product brochure (4097) at www.habasync.com.

#### Other accessories

In addition to support guides, clamping plates and pulleys are common to the conveying and linear positioning environment. Habasit can provide the total solution package with the assistance of outsource partners. For more information on this service, please contact your local Habasit partner.



# Other cords

In many application designs, smaller pulleys will require more flexible cords while heavier lifts and larger masses on bi-directional applications will require a stronger tensile member. For these requirements, please contact your local Habasit partner to obtain the latest information on available HabaSYNC® cord types.

# Other TPU options

Most HabaSYNC® products presented in this brochure are ester type TPU materials. Ester TPU is used in our standard products because of its outstanding wear and chemical resistant benefits.

Ester type TPU elastomer however, is not considered the best material for applications where wet environments or higher humidity can be found. For these special needs, ether type TPU elastomers would be a better choice. Some ether TPU is FDA approved. They exhibit excellent hydrolytic stability, although wear resistance is reduced.

Additionally, elastomers that provide good microbe and hydrolysis resistance are available. For these requirements, please contact your local Habasit partner to obtain the latest information on available HabaSYNC® TPU types.

# Belt attachments: profiles and tracking guides

Profiles are welded to the conveying side of HabaSYNC® Timing Belts in order to accommodate special handling needs. Standard and custom shape profiles can be added for sorting and separation, feeding and indexing or actuation of products.

Profiles are a common design solution on multiple belt lines that must feed line content in a perfectly timed, synchronized fashion.

Profiles are commonly found in the following applications:

- Assembly lines
- Packaging operations
- Inserting and collating
- Pick and place automation
- Divertors
- Filling lines
- Inspection lines

Habasit uses several varieties of attachment technology to add profiles to the base belt. Consideration of the technology used is typically related to the profile design complexity, profile spacing and the number of belts and profiles required.

Profiles for HabaSYNC® are mainly provided in 92A shore hardness material; the same as the base belt, however other hardness materials are available.

Profiles are obtained in several manners; extrusion, injection or machining. The choice of profile sourcing is dependant on shape, dimensions and quantities required.

Some profiles are considered more standard than others. Shown below are illustrations of shapes considered to be more common in the industries we serve. Of course we are very interested in creating a specific design unique to the requirement of your application. In order to select the right shape, dimension and process for your application, contact your local Habasit partner to discuss your specific need.

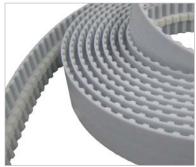


#### **Profile examples**



# Tracking guides (longitudinal guides)

Tracking guides are placed on the tooth (drive) side of the belt to provide true belt tracking in applications where side loading of the belt can create a perpendicular or lateral shift of the belt from its direction of travel. Tracking guides are also beneficial on long center distance applications and where flanged pulleys could affect product movement. Tracking guides can be notched or longitudinally grooved to provide maximum flexibility around pulleys.



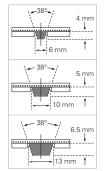


Illustration: Cross section of a timing belt with tracking guide (gray) on toothside. Tracking guide cross section G6, G10 and G13.

Standard HabaSYNC® tracking guides are available in 92 Shore A thermoplastic polyurethane as well as lower durometer thermoplastic urethane. For details, please consult our website: www.habasync.com.

# Covers

In order to provide the right frictional performance for your synchronous conveying application, Habasit offers a wide range of cover options from which to choose. Depending on your application, the product conveyed and it's environment, HabaSYNC® cover options ranging from industry standard materials and well known Habasit covers types can be added to our belt.

Using processes that range from in line extrusion, lamination or secondary fabrication, Habasit cover materials provide solutions for the following types of requirements:

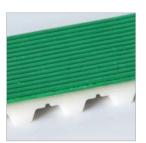
- High Friction
- Low Friction
- Compression
- Shock Absorption
- Ease of release
- Fragile conveying
- Electrostatic discharge
- Abrasion resistance
- Heat resistance (cover only)
- FDA











# Modifications

Modifications to the cover and tooth side of a HabaSYNC® belt can enhance performance for your conveying and linear positioning applications. Contact your nearest Habasit partner to share your ideas or discuss your application needs.

### Common modifications include:

### **Profile grinding**

After covers are added, they can be ground to yield special designs to help maintain product control. Designs include slots, contours, v-shapes and round shapes.

# Surface grinding

Grinding of the added cover can provide tight thickness tolerances and, in many cases, deliver more friction from the conveying side of the belt.





### Lateral machining

Profiling across the belt width to create holders or pockets, or to reduce stress concentration on the cover as it flexes around pulleys.

# Hole punching / perforations

Holes can be placed in HabaSYNC® belts to meet the process and functional optimization you desire. In many cases, teeth can be removed in order for belts to be used in vacuum applications on product feed lines.





# The Habasit solution

At Habasit, we listen to our customers, innovate continuously and deliver reliable solutions to meet your every need.

#### **Customers come 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.

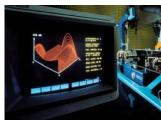
Since our foundation in 1946, Habasit has brought this understanding of customer needs to life every day and for every application. That's why we're the No. 1 in belting today. Worldwide.





# 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.





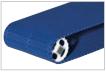
# Worldwide leading product range

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, tailormade solution.

A selection of our product ranges:



HabaFLOW® Fabric based conveyor and processing belts



HabasitLINK®& **KVP®** Plastic modular belts



HabaDRIVE® Power transmission belts



HabaSYNC® Timing belts



HabaCHAIN® Chains (slat and conveyor chains)



HabiPLAST<sup>®</sup> Profiles. guides, wear strips



Machine tapes



Seamless belts



Round belts



Fabrication tools (joining tools)



Gear reducers. gearmotors, motion control



Electric motors

#### Worldwide support

Our extensive organization is ready to support you anywhere in the world. Engineering and emergency assistance, quotes and order status are just a phone call away. Wherever you are. Whenever you need us.

For additional information please visit: www.habasit.com

#### Austria

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