

# 남일벨트시스템

하바지트(Habasit) 제품 카탈로그

## HabaSYNC Flex 타이밍 벨트

### 제품 개요

중하중 동기 이송 및 정밀 위치 결정을 위한 유연한 타이밍 벨트입니다. 나선형 권선 코드로 동력 전달용으로도 사용 가능합니다.

### 주요 특징

- 중하중 동기 이송에 최적
- 헬리컬 권선 코드 - 동력 전달 가능
- 다양한 TPU 소재 선택
- 폴리아미드 패브릭 옵션

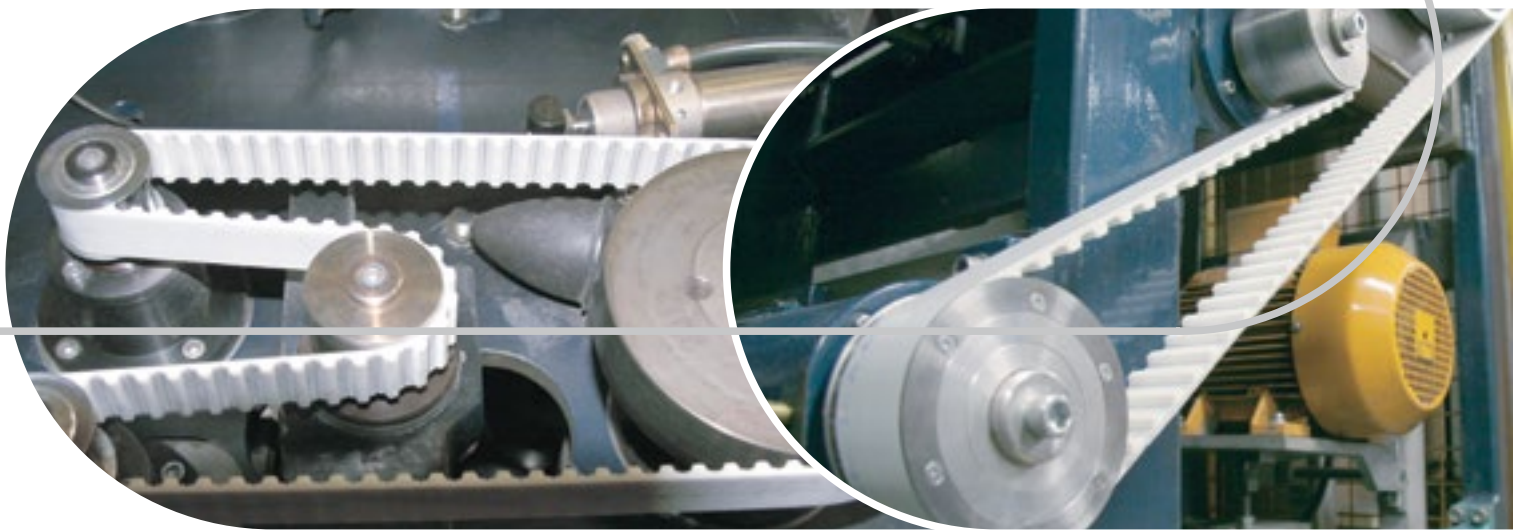
남일벨트시스템 (Namil Belt System) | 하바지트(Habasit) 공식 파트너

대표: 홍종수 | 사업자등록번호: 268-06-02265 | 서울시 동대문구 한천로2길 16, 212호(덕암빌딩)

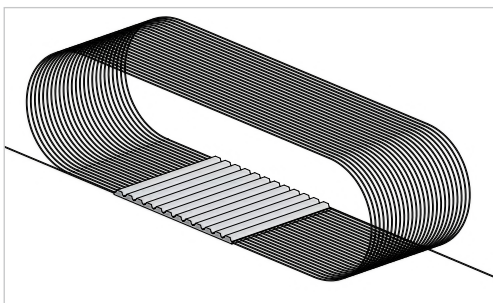
전화: 02-6084-7795 | 이메일: namilsystem@naver.com | 홈페이지: namilbeltsystem.github.io

# HabaSYNC® Flex timing belts

Seamless high-performance belts



HabaSYNC® Flex timing belts offer all the reliability and precision of HabaSYNC® belts, while their helically wound cords provide double the tensile strength of joined endless timing belts. HabaSYNC® Flex belts are ideal for conveying heavy loads; they are also used in high power transmission applications.

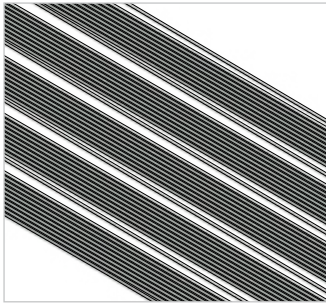


#### Features

- High abrasion resistance
- Hydrolysis resistance
- UV light and ozone resistance
- Good oil and grease resistance
- Resistance to some acids and caustic solutions

# HabaSYNC® flex seamless timing belts

## Twice as flexible – with a choice of slitting lanes for perfect results



What's special about HabaSYNC® Flex timing belts is the variable arrangement of the cords inside the belt.

Individual slitting lanes are possible of any width and distance up to a total width of 150 mm, e.g. 6 x 25 mm, 5 x 30 mm, 9 x 16 mm, 4 x 35 mm, etc. This makes it easy to cut and punch holes in the belt.

The exposure of cords at the belt edges is significantly reduced. As a result, the cut edges of the belt are almost completely smooth, meeting the requirements of many applications.

HabaSYNC flex seamless (truly endless) timing belts are ideal for synchronized conveying and precise positioning of heavy loads. Manufactured with helically wound cords, they provide double the strength of joined endless belts. They can also be used in high power transmission applications.

HabaSYNC® seamless timing belts are manufactured in endless lengths without cord interruption. The cord is coiled in a spiral shape. They can be universally used for all tasks in conveyance and power transmission engineering up to 10,000 rpm.

### Synchronized conveying

When timing belt conveyor applications require parallel or linear synchronicity, HabaSYNC® seamless timing belts meet the challenge thanks to exact tooth pitches and very small tolerances. Smaller tooth pitches can be used while offering the same performance as welded endless belts. This allows for smaller pulley diameters and shorter transfer points.

### Precise positioning

The seamless design allows highly precise positioning over the entire length of the belt and gentle product conveyance without damage or bottlenecks. Tighter product spacing on the belt supports increased throughput and results in greater efficiency.

### Drive power transmission

HabaSYNC® seamless timing belts offer the highest possible and most efficient drive power transmission. They feature low noise and minimal start-up delay due to their low mass inertia and a high torsional stiffness, which provide the added benefits of smooth running and precise directional stability. The seamless design with uniform and precise tooth pitch over the entire belt length ensures flawless operation, especially for high power transmission.

### Materials

HabaSYNC® seamless timing belts are made with the same high quality cords and TPU materials as our open end timing belts. Seamless timing belts can be produced with friction-reducing, wear-resistant polyamide fabric on the tooth side. These polyamide fabrics are also available with antistatic properties.

# HabaSYNC® flex seamless timing belts

Pitch	Tooth-side cover			Cords				
	Without cover	Green polyamide material	Black polyamide antistatic material	Steel	Aramid	Stainless steel	High flexible	Performance
T5	●	●	●	●	●	●	●	○
T10	●	●	●	●	●	●	●	○
T20	●	●	●	●	●	●	●	●
AT5	●	●	●	●	●	●	●	○
AT10	●	●	●	●	●	●	●	●
AT20	●	●	●	●	○	●	○	●
5M (HTD)	●	●	●	●	●	●	●	○
8M (HTD)	●	●	●	●	●	●	●	●
14M (HTD)	●	●	●	●	○	●	○	○
RPP8	●	●	●	●	●	●	●	●
XH	●	●	●	●	●	●	●	●
H	●	●	●	●	●	●	●	○
L	●	●	●	●	●	●	●	○
XL	●	●	●	●	●	●	●	○

● Available    ○ Currently not available

## Availability of materials

All of the pitches above can be produced in different TPU materials including:

Code	Material	Hardness	Properties	Color	Temperature range
01	Polyester urethane	92 Shore A	High abrasion resistance	White	-20 to 80 °C (-4 to 176 °F)
04	Polycarbonate urethane	92 Shore A	Good microbial resistance	White	-20 to 80 °C (-4 to 176 °F)
05	Polyether urethane	90 Shore A	Good hydrolysis features FDA/EU	Cobalt blue	-30 to 80 °C (-22 to 176 °F)
06	Polyester urethane	92 Shore A	High abrasion resistance	Black	-20 to 80 °C (-4 to 176 °F)
22	Polyester urethane	90 Shore A	FDA/EU	Transparent	-20 to 70 °C (-4 to 150 °F)

## Slit lane configuration

Slit lanes are fully customizable per request. In case of doubts get in touch with a Habasit representative.

# Solutions in motion



## **Comprehensive consulting and technical support**

Profit from the best consulting and technical support in the lightweight belting industry. Local experts are always available to assist you with your belting needs. The Habasit team is proud to provide the highest level of support, together with top-quality products that have led the global market for decades.



## **Belt selection and calculation assistance**

We are always glad to help you select the most suitable belt for any application for your convenience. We now also provide the free online tool 'SeleCalc' which allows you to easily make selections and calculations yourself. Simply register online at [selecalc.habasit.com](http://selecalc.habasit.com).



## **Fabrication, assembly and local installation services**

As a full-service belting provider, we offer joining and assembly services either at our own locations or directly on your equipment.



Habasit has over 30 affiliates worldwide, each with its own inventory, fabrication, assembly and service facilities.

Together with representative offices and numerous qualified distributors, we can react quickly and efficiently to meet all your needs.



## **Customer training programs**

To ensure the optimal performance and maximum lifespan of all our products, we offer training programs and various support tools. This includes proper procedures for fabrication, installation, assembly, maintenance and belt repair, all of which take place at a Habasit site or at your location.



## **Belt monitoring, inspections, analyses and process optimization proposals**

We organize and handle belt maintenance, inspections, analyses and surveys at customers' sites. Upon request, we are ready to develop optimization proposals to ensure you're getting maximum value from your machinery and process output.



## **Design assistance for customized solutions**

Habasit believes in building partnerships with our customers. Our engineering team will work closely with your engineers on joint design developments from initial design to final implementation. This expert service can be invaluable for projects involving new technologies or large-scale modifications and adaptations.

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Habasit International AG

CH-4153 Reinach-Basel  
Phone: +41 61 715 15 15  
Fax: +41 61 715 15 55

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