

# HabaSYNC® Wide Timing Belts For Tire Industry



## **Improved Productivity and Reduced Line Downtime with HabaSYNC® Wide Timing Belts**

The Automotive industry is famously competitive and cost conscious, so tire manufacturers rely on belt life time to keep productivity rates high. After all, belts used in the tire building process operate in tough conditions. Replacement of a damaged belt can cost an entire shift in duration and the attention of from 4 to 6 operators. This could mean a loss of in excess of 5,000 car tires due to line downtime. However, this can be avoided with HabaSYNC® Wide Timing Belts.

## **The widest available solution on the market**

Belts used in tire building machines very often are comprised of a number of narrow belts joined longitudinally, or belts running in parallel to achieve the desired width. With a Wide Timing Belt, the need for longitudinal joining, which could be a point of potential failure, is eliminated, as is the need to install multiple parallel belts. Wide Timing Belts also improve positioning through precise alignment, which can be challenging for parallel belts. At 600mm, HabaSYNC® Wide Timing Belts offer the widest timing belt solution available in the market. This opens new possibilities for tire building productivity and the construction of equipment used in this application.

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## **Up to 8 times faster belt replacement**

Traditional belt joining methods provide a robust joint able to withstand the operating conditions of the tire building process. However, when traditionally joined belts need replacing, it can take up to 8 hours, and as many as 6 operators, resulting in high costs and lost productivity. HabaSYNC® Wide Timing Belts can be joined with a hinge joint. This solution can reduce the replacement related downtime to less than an hour and requires only 2 operators for the change.

## **Quality tires are made on quality belts**

The uncured rubber used in tire building applications requires materials with a high chemical resistance. HabaSYNC® Wide Timing Belts are made using a special TPU material with high resistance to chemical agents, oil and grease. The material is also abrasion resistant, which increases belt lifetime and reduces the frequency of belt changeovers.

## **Process automation made easy with precise positioning**

HabaSYNC® Wide Timing Belts are designed especially for synchronous conveying applications and precise product positioning where wide surface conveyance is required. Reinforced with aramid cords, the belts do not require re-tensioning, as there is no belt elongation. The belts have a low coefficient of friction on the running side for smooth running of the belt. Both the conveying and tooth side of the belt can be provided with a Polyamide cover to accommodate the specific needs of the applications.

## **Tailored for your process requirements**

With Habasit advanced fabrication capabilities you can customize the belt for a precise fit to your tire building line. From the joining method, including the hinge joint, to profiles, transversal or lateral grooves on the conveying or tooth side, various covers, and punched or water-jet cut holes and pockets, there are solutions for even the most demanding process needs.

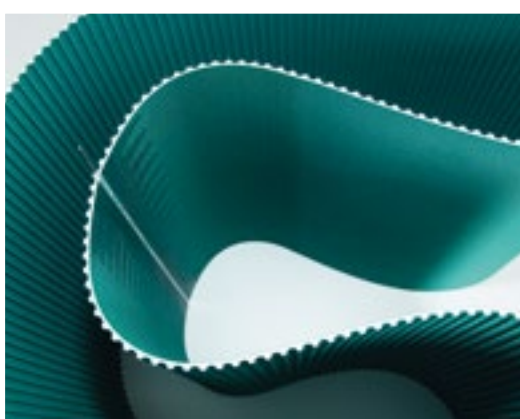


# HabaSYNC® Wide Timing Belts For Tire Industry

| Key features                                                                                        | Your benefit                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Width of up to 600 mm</li> </ul>                             | <ul style="list-style-type: none"> <li>Longer belt lifetime due to no risk of damage at the longitudinal joint and improved precision in wide conveying</li> </ul>                                          |
| <ul style="list-style-type: none"> <li>Made of high grade TPU material</li> </ul>                   | <ul style="list-style-type: none"> <li>High resistance to chemical agents, oil and grease</li> <li>High abrasion and wear resistance</li> </ul>                                                             |
| <ul style="list-style-type: none"> <li>Aramid reinforcement</li> </ul>                              | <ul style="list-style-type: none"> <li>No belt elongation and no re-tensioning required</li> </ul>                                                                                                          |
| <ul style="list-style-type: none"> <li>Hinge joint</li> </ul>                                       | <ul style="list-style-type: none"> <li>Reduced downtime due to significantly shorter changeover</li> <li>Resource savings due to need for fewer operators for belt changeovers and installations</li> </ul> |
| <ul style="list-style-type: none"> <li>Polyamide (PA) fabric conveying and/or tooth side</li> </ul> | <ul style="list-style-type: none"> <li>Provided in combinations ideal for specific applications</li> </ul>                                                                                                  |

The range of available types allows the perfect choice for different application needs:

| HabaSYNC®<br>Wide Timing Belts for Tire |       |       |               |          |            |       |                 |
|-----------------------------------------|-------|-------|---------------|----------|------------|-------|-----------------|
| Pitch                                   | Width |       | Cord material | Material | Hardness   | Color | PA fabric green |
|                                         | mm    | in    |               |          |            |       |                 |
| T10                                     | 600   | 23,62 | Aramid        | TPU      | 92 Shore A | White | None            |
| T10                                     | 600   | 23,62 | Aramid        | TPU      | 92 Shore A | White | Tooth Side      |
| T10                                     | 600   | 23,62 | Aramid        | TPU      | 92 Shore A | White | Both Sides      |
| T10                                     | 600   | 23,62 | Aramid        | TPU      | 92 Shore A | Black | None            |
| T10                                     | 600   | 23,62 | Aramid        | TPU      | 92 Shore A | Black | Tooth Side      |
| T10                                     | 600   | 23,62 | Aramid        | TPU      | 92 Shore A | Black | Both Sides      |



# 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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