Continental
The Future in Motion

TIMING BELTS IN EPDM QUALITY

DRIVE THE CHANGE.

More service life.
More reliability. Less CO_2.

Conti Synchroforce/Advance/Advance Pro

www.continental-industry.com

ContiTech

CHANGE THE DRIVE.

DRIVE THE CHANGE.

The new generation of industrial timing belts has arrived, setting new benchmarks with EPDM as the core material. More performance, more resilience and a smaller carbon footprint – all without any modifications or additional cost.

Up to 4 times longer service life.

Less downtime. Less change. Less cost.

Resilience under extreme conditions.

Temperature-stable from −40 °C to +120 °C (Synchroforce, Synchroforce Advance)
Temperature-stable from −40 °C to +100 °C (Conti Synchroforce Advance Pro)

Lower CO_2 emissions.

>20% lower product carbon footprint (calculated according to ISO 14067)

Future-proof.

Without PFAS. Fewer potentially harmful ingredients.

THE WAY FORWARD:
New timing belts made of EPDM.

Our new rubber timing belts on an EPDM basis come in three powerful versions:

Conti Synchroforce for the lower and medium performance range. This belt replaces the existing CONTI SYNCHROBELT.

Conti Synchroforce Advance for the upper performance range. This belt replaces the existing CONTI SYNCHROFORCE CXP.

Conti Synchroforce Advance Pro for the most demanding requirements in industrial drive technology

The belts are fully compatible: The pitches, lengths and profiles remain unchanged. In other words, you can easily replace the belts in your existing systems and immediately benefit from the new features. Only a check on the pre-loading frequencies is recommended.

In addition, the belts are **antistatic** in accordance with ISO 9563, **oil-resistant* under certain conditions**, and **maintenance-free.**** And because we have optimized the tooth fabric in addition to the base material and use extremely strong glass cord or aramid tension members, you can always count on **maximum skip resistance** and **power transmission**.

* according to Continental Swelling Test ASTM 1=IRM Oil 901, Category D
** No re-tensioning required throughout the entire service life when installed according to Continental specifications.

The key benefits at a glance

More cost-effective: Service life up to four times longer, depending on the application.

More reliable: Optimized belt structure for reliable power transmission; oil-resistant* under certain conditions; antistatic according to ISO 9563

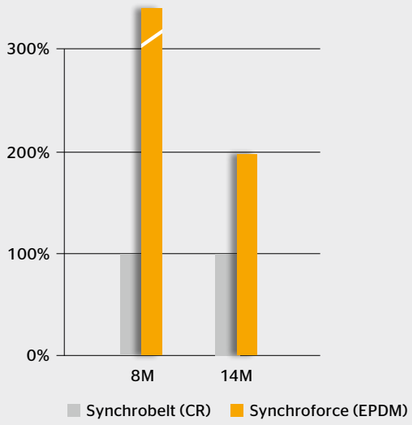
Resilient: Suitable for use in a wide temperature range from -40 °C to +120 °C (Conti Synchroforce Advance) and -40 °C to +100 °C (Conti Synchroforce Advance Pro)

More sustainable: >20% lower product carbon footprint**, PFAS-free, significantly lower levels of chlorine and PAHs

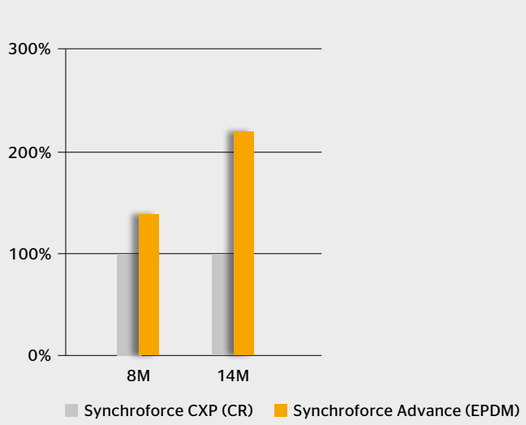
* According to Continental Swelling Test ASTM 1=IRM Oil 901, Category D
** Calculation according to ISO 14067 using the Synchroforce Advance 8M as an example. System limits: Cradle-to-gate approach

Longer service life

Conti Synchroforce put to the test*

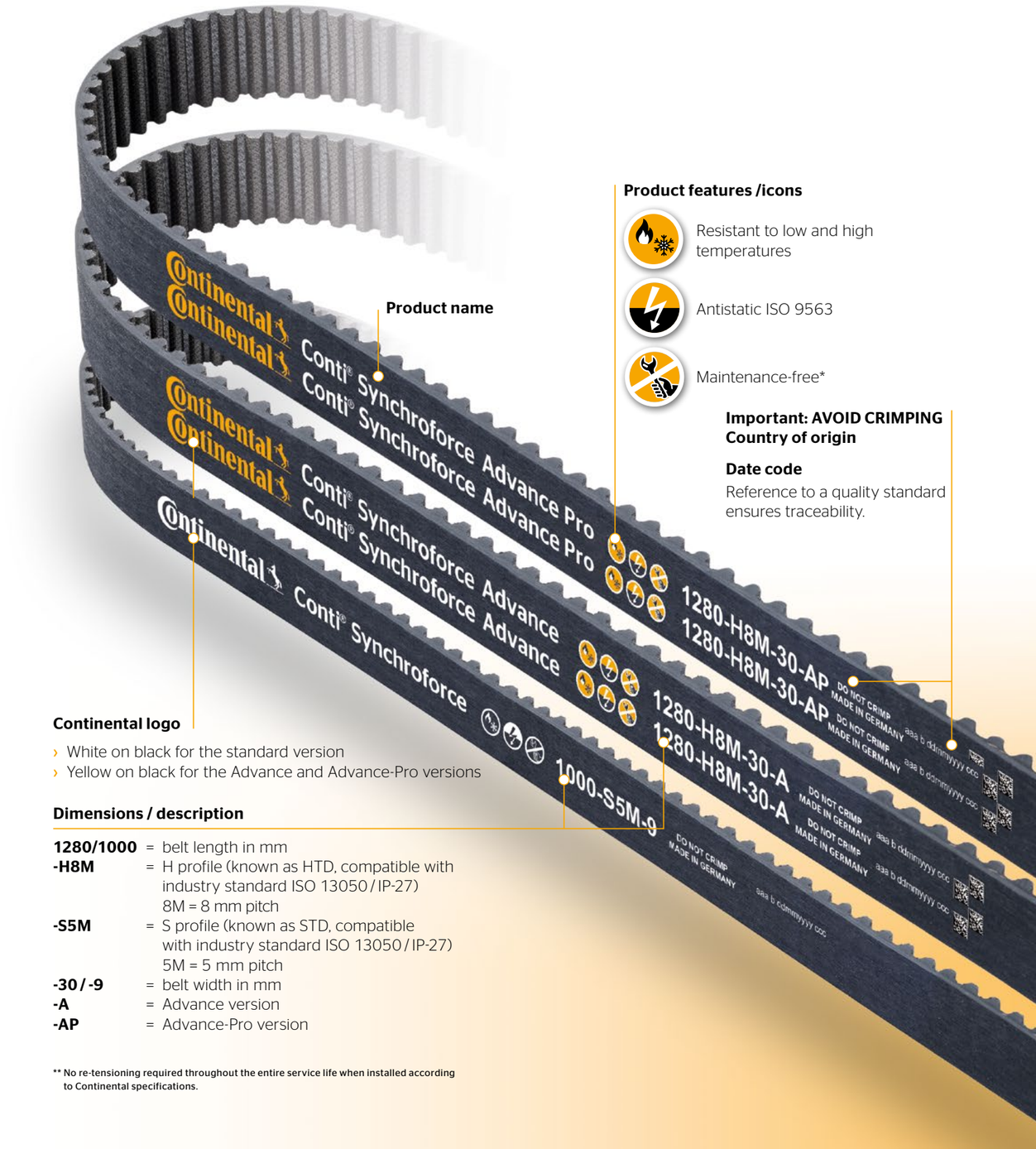


Conti Synchroforce Advance put to the test*



* Data determined under specific test conditions and not universally applicable.

A CLEAR PICTURE:
Belt markings.



Product features /icons

Resistant to low and high temperatures

Antistatic ISO 9563

Maintenance-free*

Important: AVOID CRIMPING
Country of origin

Date code
Reference to a quality standard ensures traceability.

Continental logo

› White on black for the standard version
› Yellow on black for the Advance and Advance-Pro versions

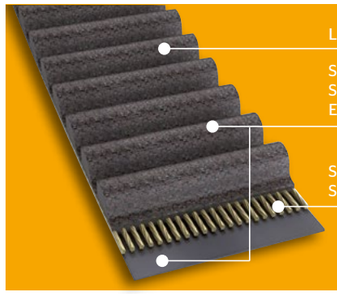
Dimensions / description

1280/1000	=	belt length in mm
-H8M	=	H profile (known as HTD, compatible with industry standard ISO 13050 / IP-27) 8M = 8 mm pitch
-S5M	=	S profile (known as STD, compatible with industry standard ISO 13050 / IP-27) 5M = 5 mm pitch
-30 / -9	=	belt width in mm
-A	=	Advance version
-AP	=	Advance-Pro version

** No re-tensioning required throughout the entire service life when installed according to Continental specifications.

IN A NUTSHELL:
Technical specifications.

Structure and profiles

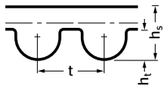


Low-friction polyamide fabric

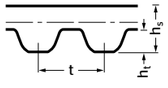
Synchroforce: Teeth and backing made of a high-performance EPDM compound
Synchroforce Advance und Synchroforce Advance Pro: Teeth and backing made from a high-performance EPDM compound reinforced with aramid fiber

Synchroforce und Synchroforce Advance: Tension member made of glass cord
Synchroforce Advance Pro: Tension member made of aramid

HTD profile



STD profile



Profile	Lengths [mm]	Tooth pitch t [mm]	Belt thickness hs [mm]	Tooth height ht [mm]
HTD 8M	288–4,400	8	5.6	3.4
HTD 14M	966–5,740	14	10.0	6.0
STD 8M	376–4,400	8	5.2	3.0
STD 14M	1,120–3,150	14	10.2	5.3

3M and 5M in preparation

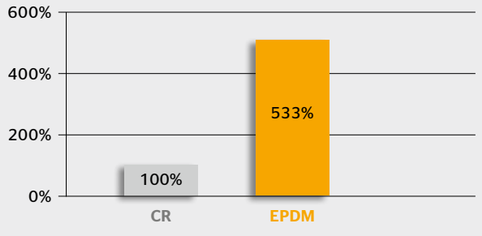
Improved temperature resistance

Test at low temperatures**

	Temperature	Test runs	Cracks in backing
CR	-30°C	80	160
EPDM	-40°C	80	3

** Data determined under specific test conditions and not universally applicable.

Service life test at 120°C ambient temperature**

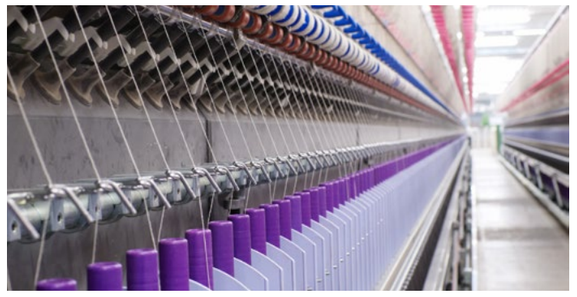


MORE POWER FOR YOUR IDEAS!
Typical applications.

The timing belts of the new Synchroforce series are ideal for all industries in which rubber timing belts are used.

The improved temperature resistance of the EPDM material opens up new areas of application.

Fields of application:
- Transport and conveyor systems
- The wood and building materials sector
- The paper industry
- Packaging machinery
- The food and beverage sector
- The metalworking industry
- and many more



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PTS-003-2025-V01 EN Fjo