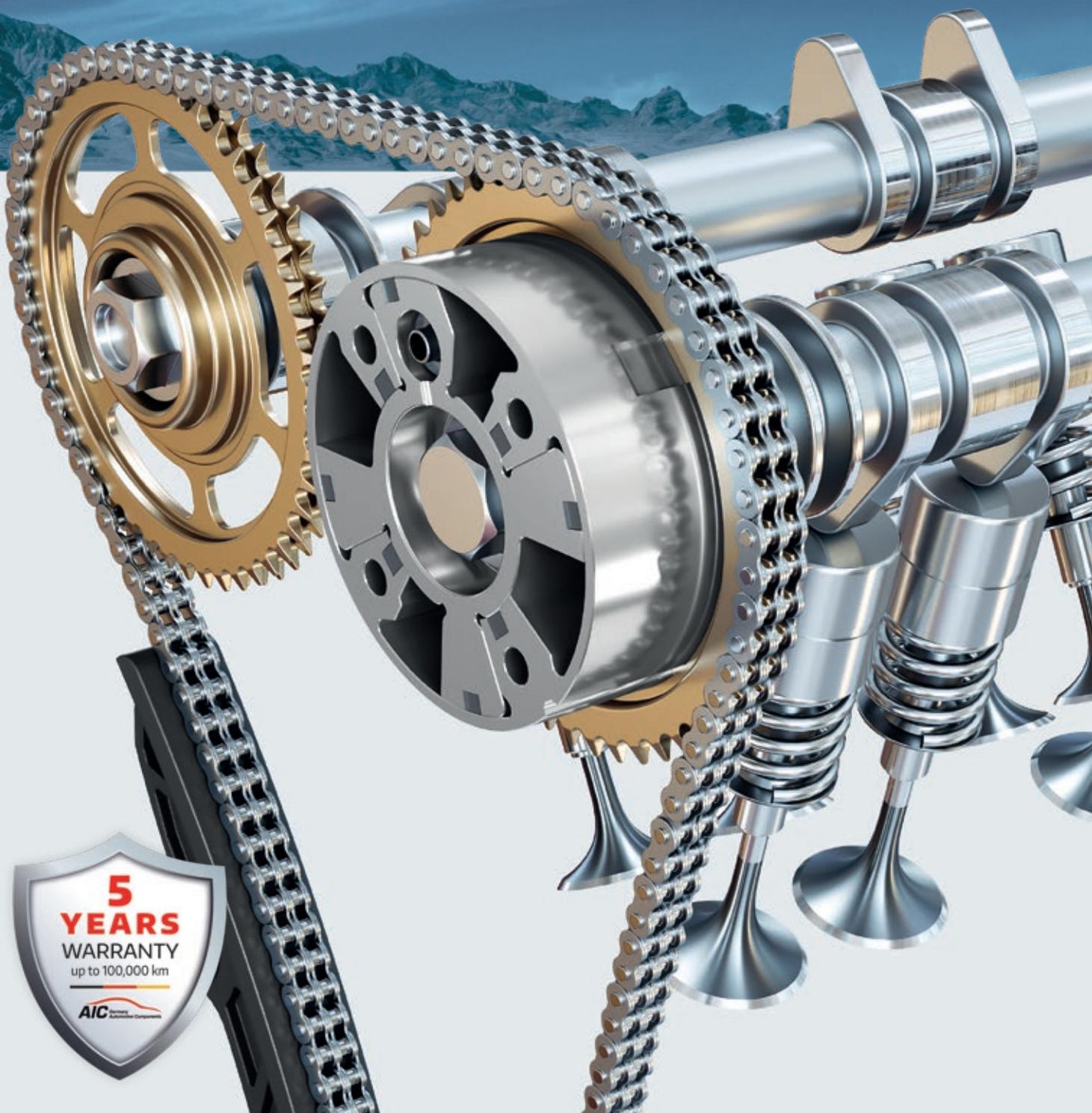


TIMING CHAIN SYSTEMS FROM IWIS

Ready-to-install complete kits in OEM quality



EDITORIAL



Dear customers,

No matter if we think of digitalization, electric mobility, autonomous driving or new mobility concepts, the current pace of change in the automotive industry is tremendous. But especially in times of major change, people tend to hold onto things that have stood the test of time.

For instance, the age of passenger cars registered in Europe is steadily increasing. Another visible trend is that more than half of all newly registered vehicles on our roads now possess a timing chain.

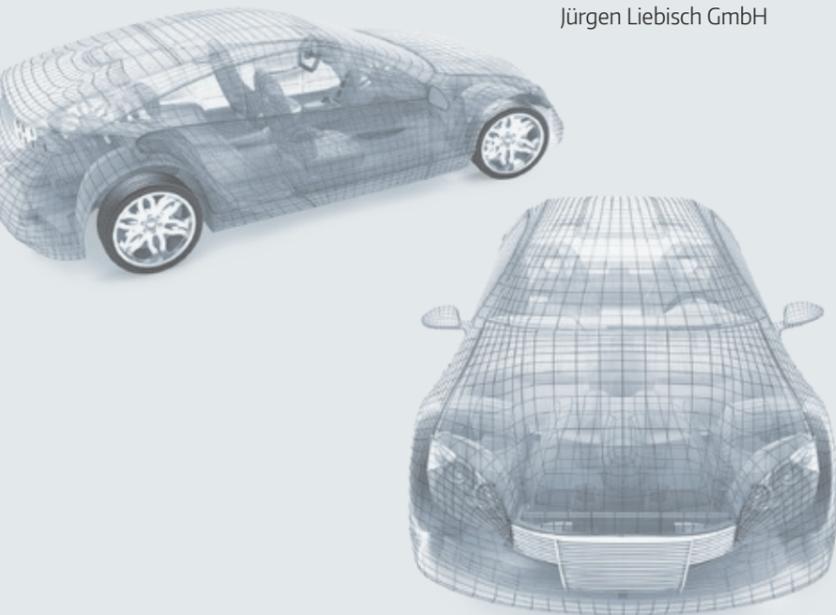
I consider both of these developments to be good news. After all, they demonstrate the ever-improving quality of vehicles. And they also reveal a growing awareness for quality.

While there are many manufacturers of timing chain systems that can operate under tough conditions, only a very few are like iwis: a family-owned company in its fourth generation. And now, this long-established German brand is also making its presence felt in the aftermarket with its own range of timing chain systems.

As a supplier of great value spare parts for the automotive parts wholesale trade, we are delighted to be able to provide you with ready-to-install complete timing chain sets in original equipment quality and original packaging from iwis. Find out more in this brochure and, of course, also in the spare parts catalogue.

Guido Berkefeld

Managing Director
Jürgen Liebisch GmbH



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AIC – GREAT PRODUCTS. GREAT VALUE.

Building on four decades of success



Since its establishment in 1975, high-quality automotive components have been the core competence of this second-generation Hanseatic family-owned company. What started out as an exporter of automotive parts with a staff of two has now grown into an international supplier of great value spare parts with more than 100 employees. The portfolio comprises more than 9,000 items covering more than 100 product groups – from ABS rings to xenon bulbs.

AIC ensures that even vehicles with high mileages, where a repair with original parts would not be economically viable, continue to run.

Jürgen Liebisch GmbH has marketed its products under its own AIC brand since 2004. The company headquarters are located in Glinde, a part of the Hamburg metropolitan region. Its distribution centre, which supplies wholesale customers all over the world from its high-bay and fully automated small parts warehouse, went into operation in 2016 and is also located here.



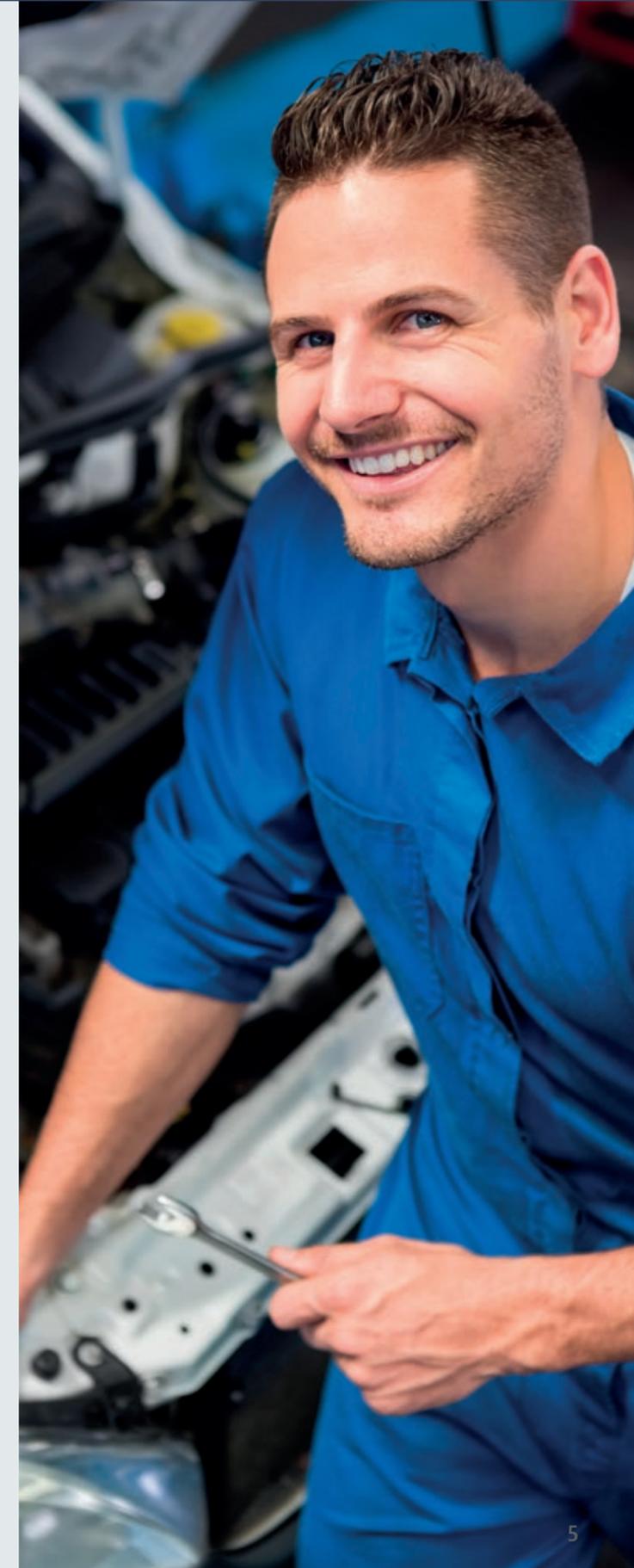
iwis – wir bewegen die welt



Original equipment quality “Made in Germany”: Complete solutions from a single source

iwis was founded in 1916 by Johann Baptist Winklhofer. Now in its fourth generation, the family-run company employs over 2,000 people in 45 branches throughout the world.

The globally leading supplier of high-performance drive chains, innovative chain drive systems and all types of customer-specific solutions – from the most powerful to the most intricate and delicate – is headquartered in Munich, Germany. As a system and development partner of all major automotive manufacturers, mechanical and plant engineering firms, companies in the packaging, printing and food industries, together with those involved in industrial applications in the field of materials handling technology, iwis is making an important contribution to further optimising and maintaining mobility for people and goods across the globe.



OUR GUARANTEE PROMISE

Every chain is only as strong as its weakest link

Numerous suppliers of timing chains and complete timing chain systems are active in the market. But if you need to be absolutely sure that a product really delivers what it promises, there is no substitute for iwis when it comes to timing chains.

No matter whether it's a chain link or tensioner, a camshaft or crankshaft sprocket, a tensioning or guide rail: iwis delivers premium quality right down to the smallest detail. We guarantee it! For 5 years, up to a mileage of 100,000 kilometers.

That's something you can rely on!



IN THE FAST LANE

Timing chains for greater performance and safety

Timing belt or timing chain? While many roads might lead to Rome, only two lead to the precise synchronisation of crankshaft and camshaft: the timing belt and the timing chain.

Both are constantly exposed to extreme demands – such as vibrations and forces occurring in the engine compartment, high temperature differences, moisture, infrequent oil changes or wrong types of oil. And neither may stretch or fail, otherwise the risk of major engine damage is imminent. Timing belts are comparatively susceptible to wear. This is why the more durable and robust timing chain drives are being increasingly chosen as original equipment.

Should you nevertheless still hear a rattling or clattering noise from under the hood, if the emission control light comes on, or if the engine no longer delivers the usual power or runs roughly, you should certainly take a closer look at the timing chain drive and, if necessary, replace it.

Timing chains – benefits at a glance

- » Better power transmission
- » Practically maintenance free
- » Long service life
- » Do not suddenly break like a timing belt due to wear (engine damage!)
- » A more compact design



Why choose iwis quality?

When it comes to the engine, it is never a good idea to skimp on repairs – including the replacement of the chain drive. The cost of a premium timing chain kit from iwis will more than pay for itself over the life of the car. And at the end of the day, you can expect less wear and lower repair costs compared to standard chains.

A TREND TOWARDS CHAINS

Total sales of timing drives
2020 worldwide:

1.227
billion EUR

Of which chain drives:

947
million EUR



Projected sales of timing
drives worldwide in 2027:

1.496
billion EUR

Of which chain drives:

1.163
billion EUR

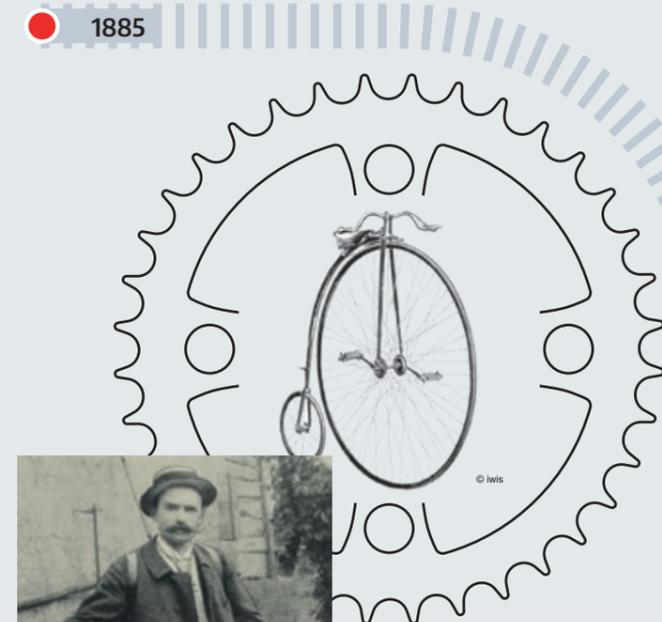
TRADITION AND RELIABILITY

Guarantors of high-quality products for decades

"Made in Germany": what was once intended as a warning from the British government to protect the domestic economy from supposedly inferior goods from Germany, quickly evolved into a globally renowned seal of quality. To this day, "Made in Germany" continues to stand for top quality and reliability – despite all the upheavals taking place in the world.

From their very beginnings, iwis and AIC have both embraced the best possible products and highest levels of service quality, and have implemented efficient quality management systems incorporating the most stringent internal testing and approval processes.

And as a brief look back over the past decades shows, this has been achieved with great success.



1885



Establishment of the "Chemnitzer Velociped-Depot Winklhofer & Jaenicke" bicycle company, later named "Wanderer-Fahrradwerke", soon to grow into one of the world's largest bicycle manufacturers.



1916

Foundation of "Johann Winklhofer - Maschinenfabrik", birth of iwis (short for "Joh. Winklhofer & Söhne"); production of bicycle and motorcycle chains.

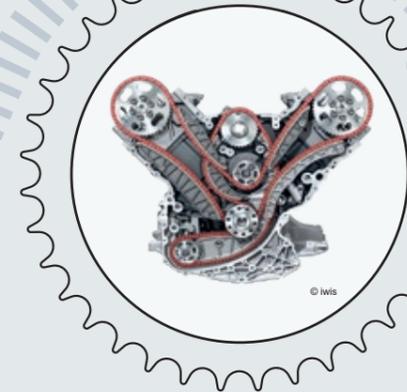


1937

Commencement of supplying motor vehicle manufacturers.

iwis is the largest manufacturer of timing chains for camshaft drives in automotive engines in Germany.

1966



The space in Munich is exhausted. iwis expands.

2000



Jürgen Liebisch GmbH is founded for the export of automotive spare parts to the USA.

1975

Acquisition of roller chain specialist Flexon GmbH. iwis now ranks among the leaders in the industrial chain sector.

2006

Introduction of the "AIC" brand and commencement of supplying the wholesale trade.

2004

2013

Jürgen Liebisch GmbH employs more than 50 people and stocks around 5,000 different items.

2016

Relocation to the new company headquarters and commissioning of the European distribution centre in Glinde, near Hamburg.

2019

AIC continues to grow. Expansion of the logistics areas and commissioning of a fully automated small parts warehouse system.

RESEARCH AND DEVELOPMENT

Optimum solutions for special challenges

35,000,000 individual parts – link plates, pins, sleeves and rollers – are manufactured by iwiss for the production of automotive timing chains alone, every day! Just one substandard part is enough to break the chain, and to cause damage to the engine.

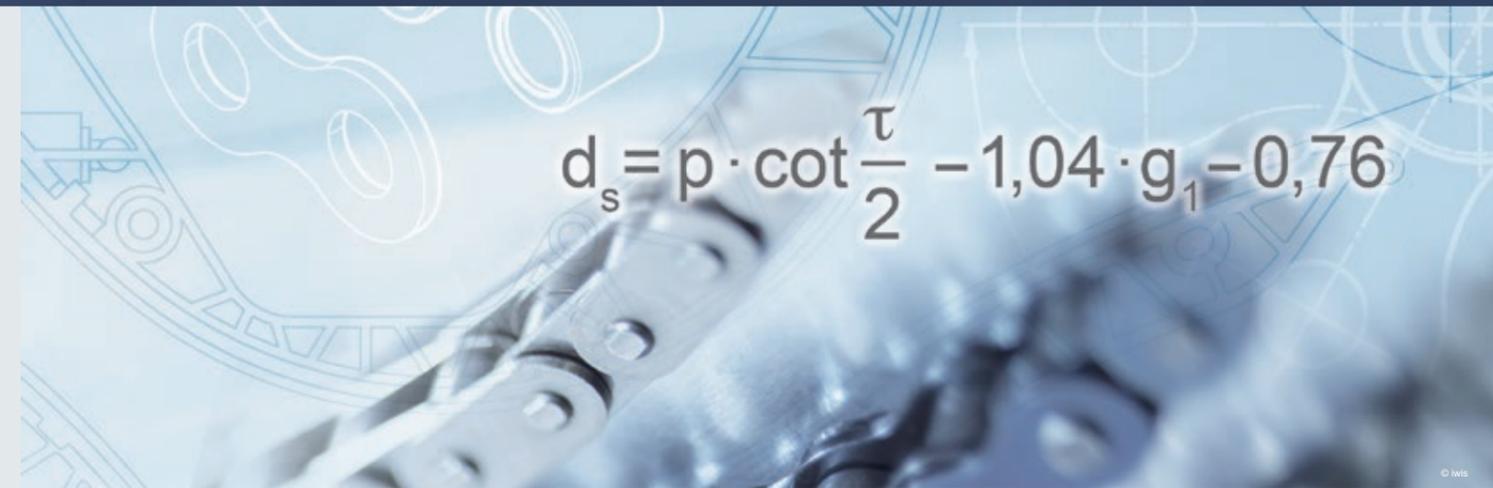
To prevent this from happening, it is essential to ensure various factors are fulfilled. These include the deployment of the highest quality materials and using sophisticated, highly automated production processes.

Most important of all, however, is extensive fundamental research. This is supplemented by the identification of trends and the innovation-oriented development of customer-specific solutions and new material and production technologies, which are then rigorously subjected to the most stringent standards and tests – right down to the smallest detail.

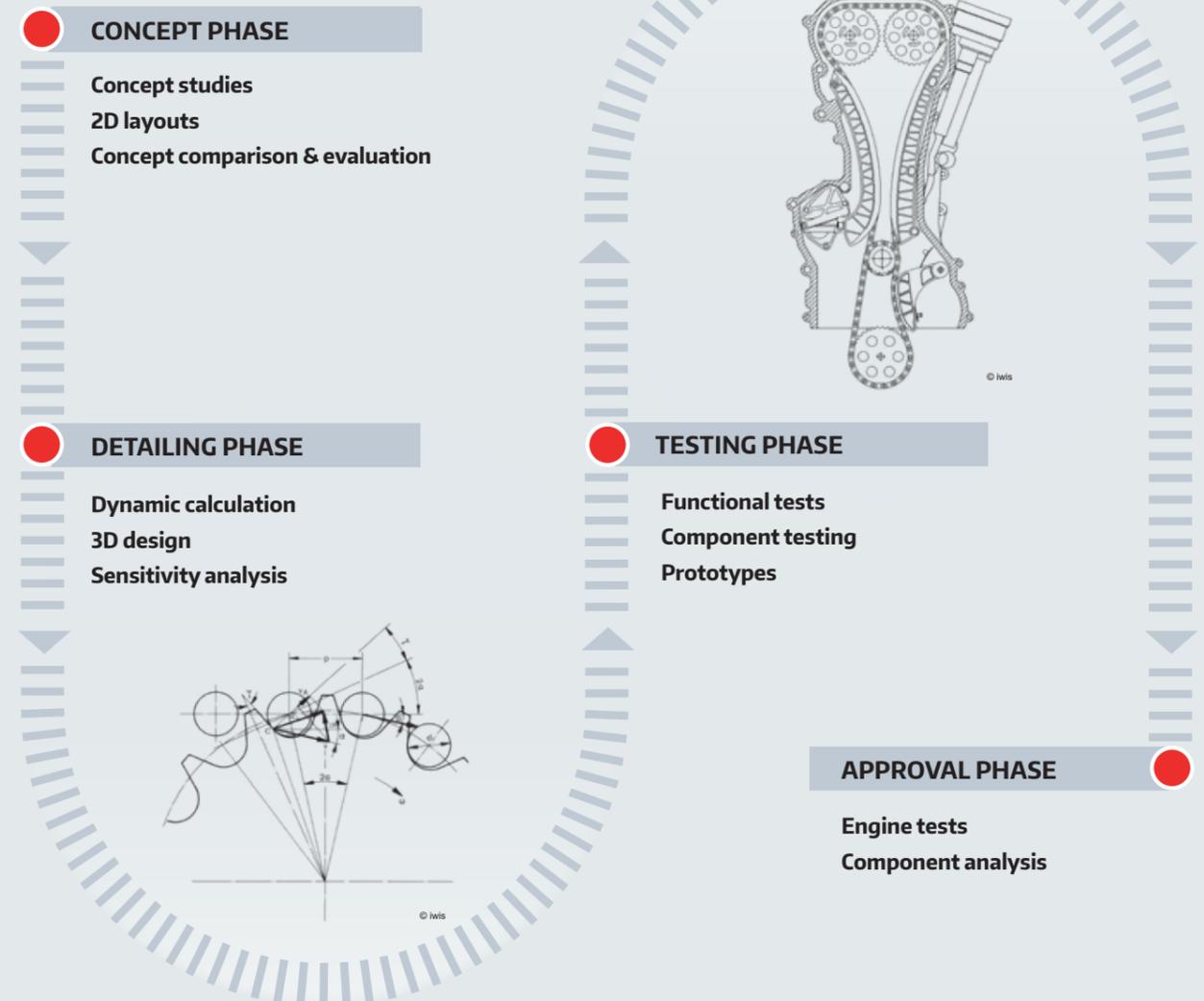
iwis boasts the largest R&D department for chain drive systems in Europe!

Benefits of iwiss timing chain kits

- » “Made in Germany” quality, installation dependability and reliability
- » All components in original packaging and from a single source in original iwiss quality
- » All necessary sealing materials and additional components included
- » Prevention of costly consequential damage
- » Long product life
- » Patented, TRITAN-coated timing chain pins



The 4 phases of development at iwiss



TIMING CHAINS FOR A LIFETIME

TRITAN – The innovative coating technology from iwis

Forward-looking and innovative: While being competitive is essential, it is not enough alone for those wanting to set the pace. One must always be at least one step ahead. With its innovation management deeply rooted in its corporate culture, iwis has consistently succeeded in turning new, creative ideas into high-performance solutions for the special mobility requirements of tomorrow.

One of the company's more recent, particularly successful developments is the high-quality, robust TRITAN coating, which effectively works against the premature wear of highly burdened components – such as timing chains.



Briefly explained, this technology uses physical vapour deposition (PVD) to create a chromium nitride layer on the respective component surfaces. It ensures that the chain links can withstand wear and the chain as a whole is resistant against elongation, thus contributing to an even longer service life of the timing chain.

Timing chain pins with TRITAN coating are therefore practically maintenance-free!

Highest protection against wear for all moving parts in modern engines

At least 50% greater protection against wear compared to conventional coatings for timing chain pins

TRITAN®



A 20% reduction in friction leads to lower carbon emissions and reduced fuel consumption

Longer timing chain lifetime

Maintenance-free drive

PERFECTLY MATCHED

Everything you need for fast and smooth installation

Set solutions provide two key benefits compared to (re) ordering components individually:
You save time and money!

- » Everything you need with just one click
- » No delivery bottlenecks for specialised small parts
- » All components are perfectly matched to each other for clean operation and lowest wear and tear
- » Set solutions are usually more economical than individually ordered parts

But even regardless of these factors, timing chain systems should always be replaced in their entirety. This is because all iwis components of the chain drive are perfectly attuned to each other to ensure smooth, trouble-free operation.

This makes an important contribution to ensuring a long service life of the engine and avoids potentially costly consequential damage.

Take a look at the spare parts catalogue. We already have more than 150 items listed there for you. And many more will follow.



Here is just a small selection from our wide range of timing chain systems:



AIC item no.	OE ref. no.	Suitable for
59005Set	03E 109 229A	Seat Cordoba and Ibiza, Škoda Fabia, VW Polo



AIC item no.	OE ref. no.	Suitable for
59138Set	946 105 169 75	Porsche Cayenne and Panamera



AIC item no.	OE ref. no.	Suitable for
59108Set	03E 115 225	Seat Cordoba and Ibiza, Škoda Roomster, Fabia, VW Polo, Fox





AIC item no.	OE ref. no.	Suitable for
59002Set	1131 1 439 854	BMW 1, 1 Cabriolet, 1 Coupé, 3, 3 Cabriolet, 3 Compact, 3 Coupé, 3 Touring, 5, X1, X3, Z4 Roadster



Oil pump set



AIC item no.	OE ref. no.	Suitable for
59379Set	1456 884	Citroën Jumper, Fiat Ducato, Ford Ranger, Ford Transit, Land Rover Defender Station Wagon, Peugeot Boxer



Chain set, oil pump drive

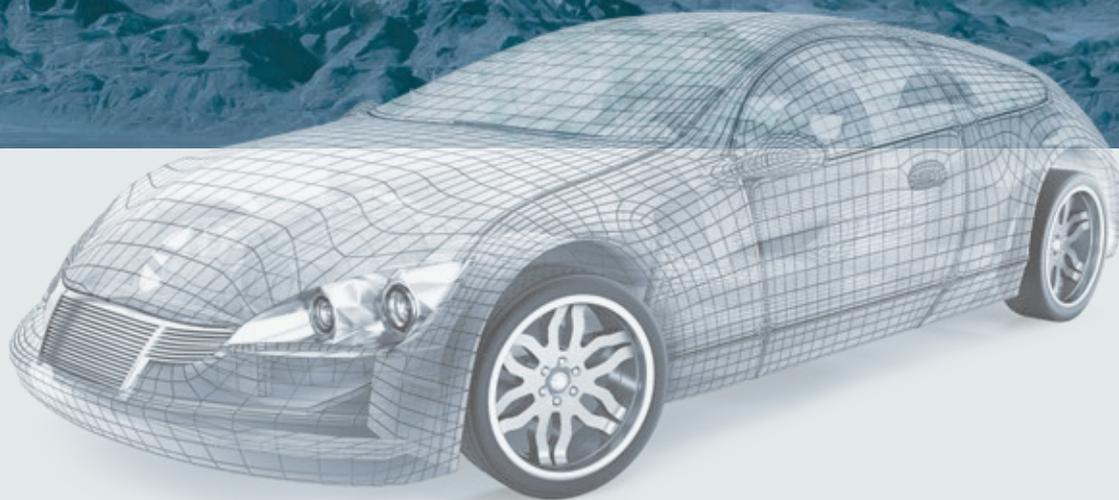


AIC item no.	OE ref. no.	Suitable for
59021Set	1131 1 439 854	BMW 1, 1 Cabriolet, 1 Coupé, 3, 3 Cabriolet, 3 Compact, 3 Coupé, 3 Touring, 5, X1, X3, Z4 Roadster



AIC item no.	OE ref. no.	Suitable for
70036Set	1131 7 523 884	BMW 1, 3, 7, X6, Z4 Roadster





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