

# TIMING CHAIN SYSTEMS MADE IN GERMANY

Ready-to-install complete kits  
in OEM quality



## EDITORIAL



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Managing Director

### MOIN and GRIASDI,

[typical ways to say "hello" in the North and in the South of Germany]

Awareness and demand for high-quality OEM solutions for the independent aftermarket are constantly growing. Because performance, durability and, above all, safety are important requirements that can only be achieved through quality. In order to meet precisely this quality requirement, we have been selling original equipment manufacturer brands in addition to our own quality brand „AIC Germany“ for some time now.

#### North-South connection

As a provider of time-appropriate spare parts for the vehicle parts wholesale trade from the north of Germany, we are pleased to be able to offer ready-to-install complete kits in original equipment manufacturer quality and original packaging from iwis based in the south of the country. And so the traditional German brand is also present in the aftermarket with iwis' own timing chain systems and AIC Germany is pleased about the successful and good partnership with the Munich-based company.

#### Stronger together

The range of timing chain and oil pump sets sold by AIC Germany now includes over 350 items - and more are being added all the time.

There are a lot of manufacturers of such timing chain systems that operate under heavy loads, but only a few are like the fourth-generation family-run company iwis from Munich. Reliability, durability and the highest possible precision: timing drive sets from iwis are a prime example of top quality „Made in Germany“.

It is not without reason that AIC offers its customers a 5-year warranty on all of the Munich-based company's products up to a mileage of 100,000 kilometers.

We are at your service!

Your AIC Germany-Team

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# FROM COMPETENCE TO EXCELLENCE.



## A brand with five decades of experience

Since the establishment of Jürgen Liebisch GmbH in 1975, automotive spare parts have been the core competence of the Hamburg-based company. In 2004, the decision was made to market the products under its own brand, AIC Germany.

In the course of the changes of the last 50 years, AIC has developed into a dynamic problem solver, committed to excellence in all areas of the aftermarket business. In its

new administration complex and distribution centre built in 2016 in Glinde, just outside Hamburg, AIC stocks more than 13,500 automotive spare parts components in over 100 product groups. The wide range of parts includes not only the AIC product portfolio. AIC also maintains trade cooperations with original manufacturers enabling it to offer spare parts in original quality in the independent aftermarket. The top priority is and remains the combination of high-quality products and fair prices, so that even older vehicles can remain operational.

# 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.

Made in  
Germany



# 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



# 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!**



# INNOVATION, TRADITION AND TRANSFORMATION

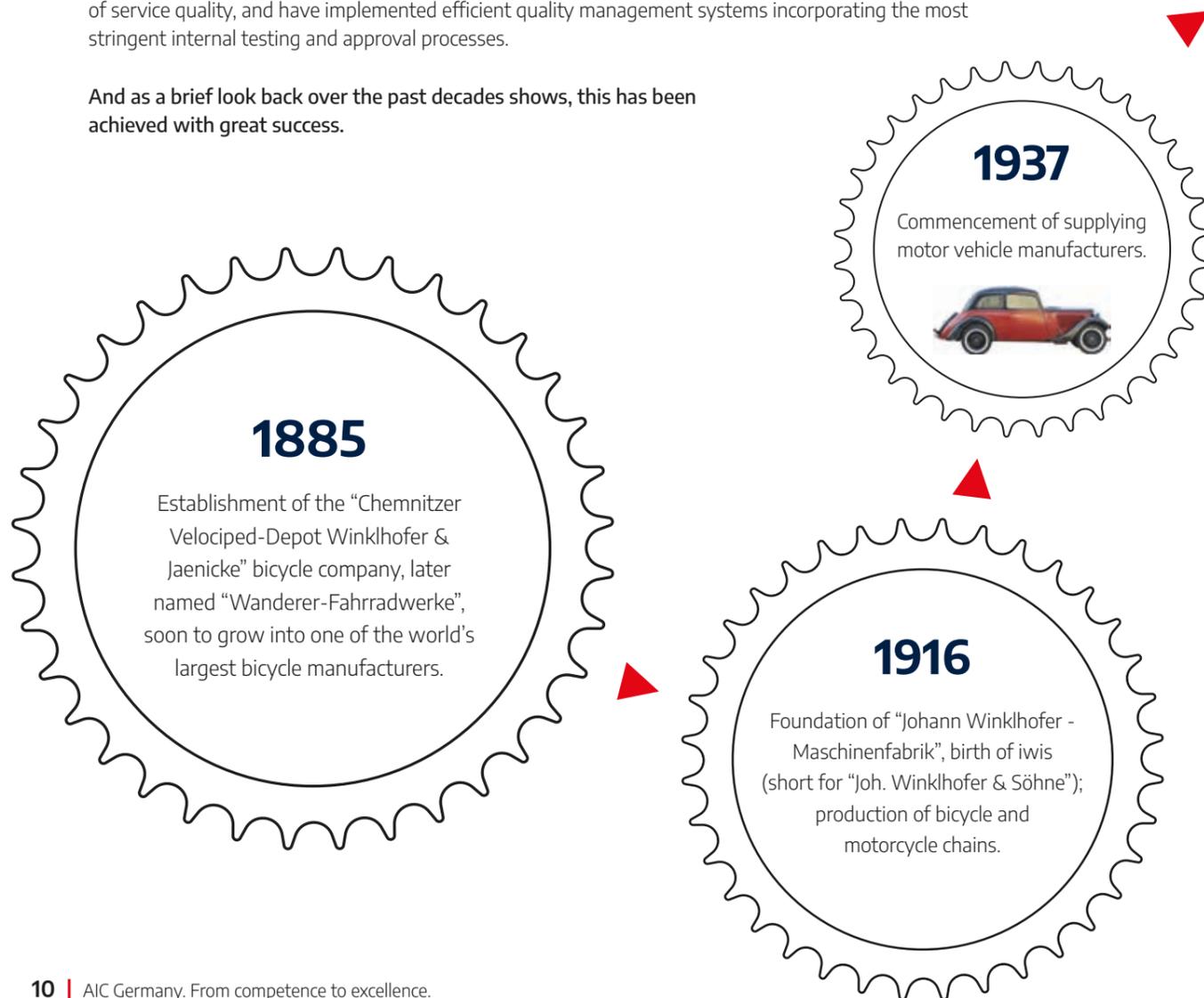


## Guarantor of high-quality products for decades

“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.



**J.W.T.S.-KETTEN**  
UND ANDERE  
**J.W.T.S.-FABRIKATE**

**1966**  
iwis is the largest manufacturer of timing chains for camshaft drives in automotive engines in Germany.

**2000**  
The space in Munich is exhausted. iwis expands.

**2006**  
Acquisition of roller chain specialist Flexon GmbH. iwis now ranks among the leaders in the industrial chain sector.

**JOH. WINKLHOFER & SÖHNE**  
**MÜNCHEN 25**  
FORSTENRIEDERSTR. 53  
FERNSPRECHER: 73844

Ausgabe 1937

# RESEARCH AND DEVELOPMENT



## Optimum solutions for special challenges

35,000,000 individual parts – link plates, pins, sleeves and rollers – are manufactured by iwis 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.



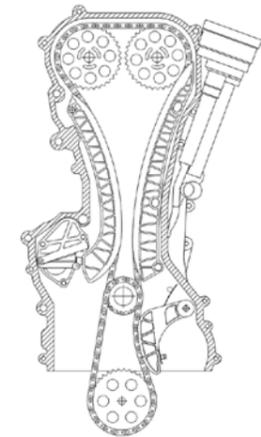
## The 4 phases of development at iwis

### CONCEPT PHASE

Concept studies  
2D layouts  
Concept comparison & evaluation

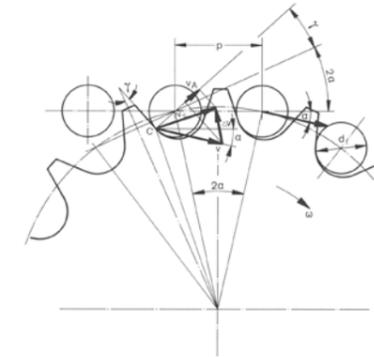
### TESTING PHASE

Functional tests  
Component testing  
Prototypes



### DETAILING PHASE

Dynamic calculation  
3D design  
Sensitivity analysis



### APPROVAL PHASE

Engine tests  
Component analysis

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

### Benefits of iwis timing chain kits

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

# 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!**

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

Highest protection against wear for all moving parts in modern engines

Maintenance-free drive

Longer timing chain lifetime

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



# 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 350 items listed there for you. And many more will follow.

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

## 70036Set

iwis Chain Kit, oil pump drive

OE ref. no.:

1131 7 523 884

Suitable for:

BMW 1er, 3er, 7er, X6, Z4 Roadster





## 59005Set

iwis Timing Chain Kit

OE ref. no.:

03E 109 229A

Suitable for:

Seat Cordoba and Ibiza, Škoda Fabia, VW Polo



## 59138Set

iwis Timing Chain Kit

OE ref. no.:

946 105 169 75

Suitable for:

Porsche Cayenne and Panamera



## 59108Set

iwis Chain Kit, oil pump drive

OE ref. no.:

03E 115 225

Suitable for:

Seat Cordoba and Ibiza, Škoda Roomster and Fabia, VW Polo and Fox





## 59002Set

iwis Timing Chain Kit

OE ref. no.:

11311 439 854

Suitable for:

BMW 1er, 1er Cabriolet, 1er Coupé, 3er, 3er Cabriolet, 3er Compact, 3er Coupé, 3er Touring, 5er, X1, X3, Z4 Roadster



## 59021Set

iwis Timing Chain Kit

OE ref. no.:

11311 439 854

Suitable for:

Porsche Cayenne and Panamera



## 59379Set

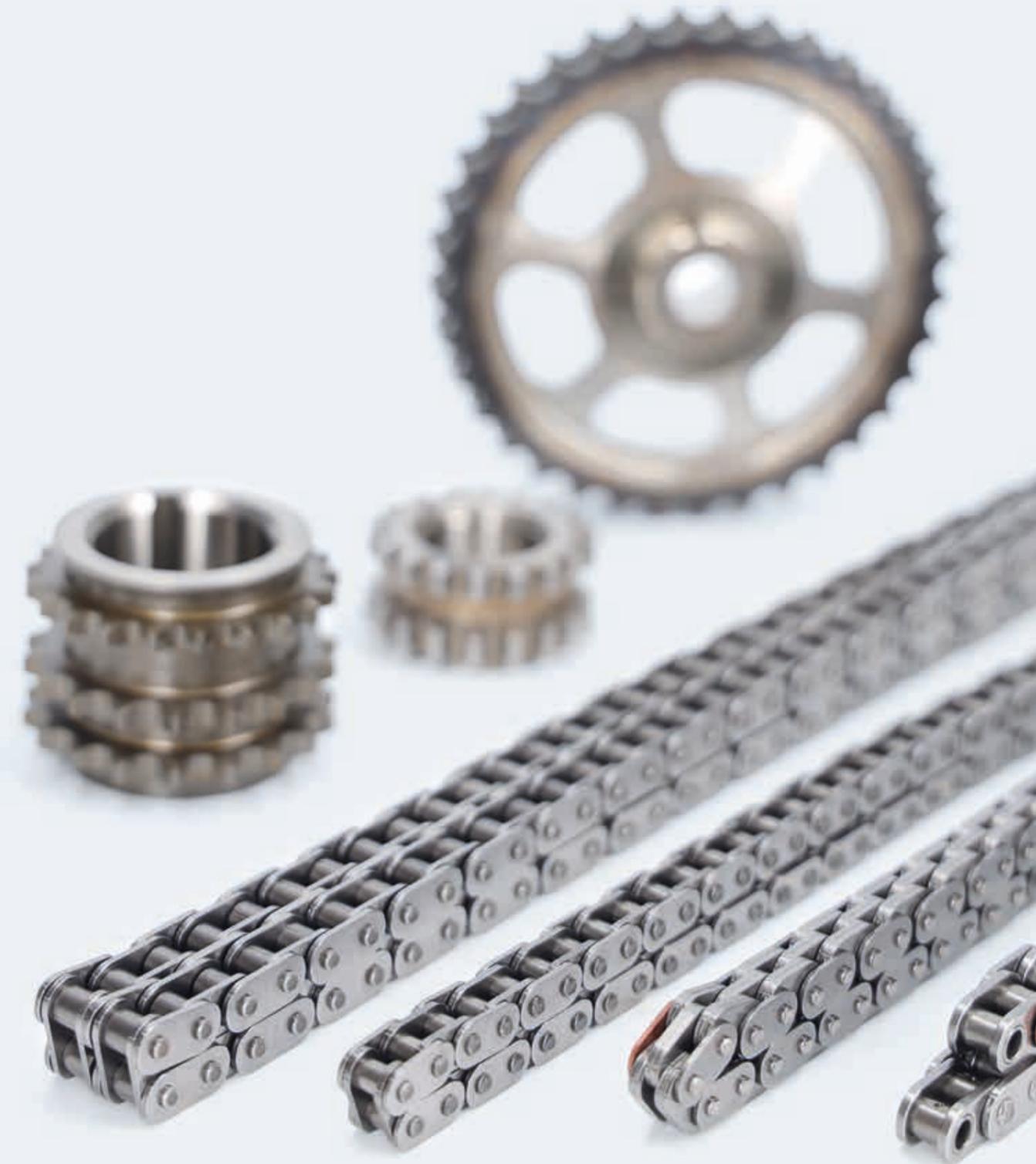
iwis Oil Pump Kit

OE ref. no.:

1456 884

Suitable for:

Citroën Jumper, Fiat Ducato, Ford Ranger, Ford Transit, Land Rover Defender Station Wagon, Peugeot Boxer



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