

# SIDEM TIMES.



08

Engineered into the  
smallest details

12

European IATF  
16949 manufacturer

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Highest coverage:  
10 000 references

**SIDEM**  
Experts know why

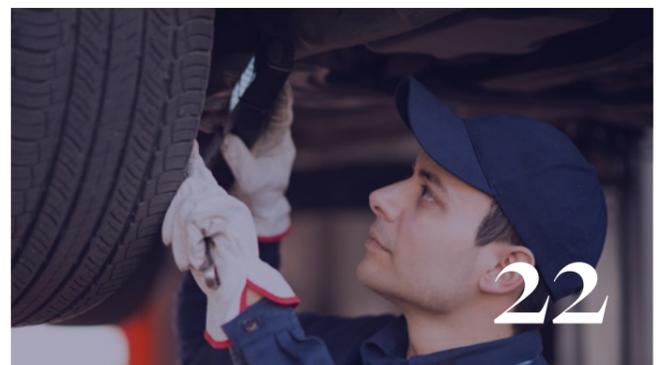
**DRIVEN BY FOCUS.  
LED BY EXCELLENCE.**

**SIDEM**   
Experts know why



## SYMBOLIC EVOLUTION.

A firm steering wheel and the wings of a swallow – the Sidem logo combines our passion for cars and our agility, which the swallow is known for. In various cultures, swallows are thought to bring good luck. In the same way, Sidem works to bring good fortune to its customers and make them happy. The logo radiates our belief in the future and our anticipation of change.

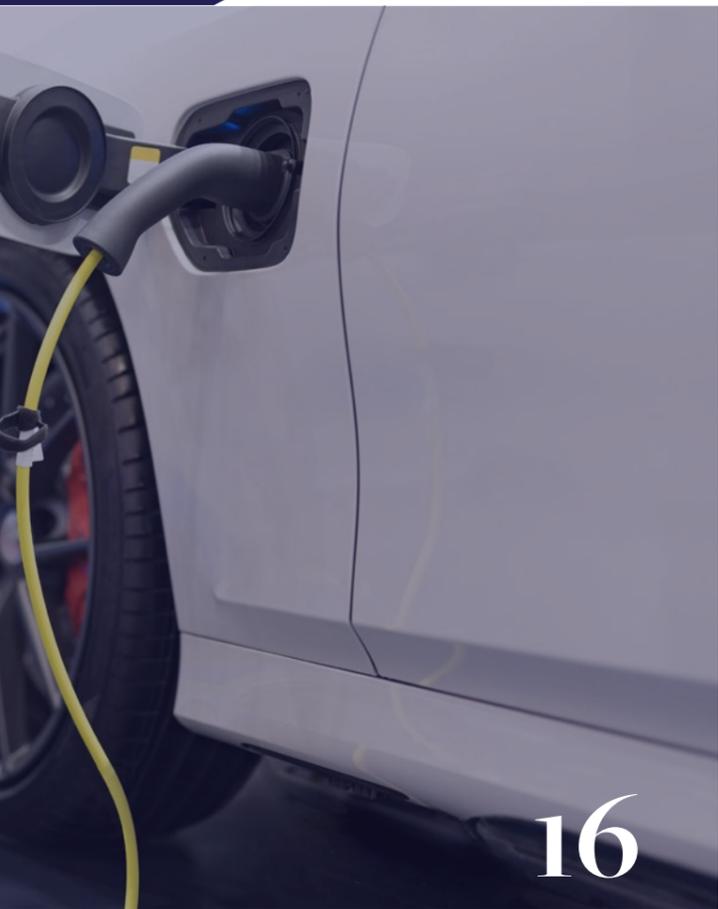


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## THE DRIVE FOR EXCELLENCE.

For over 90 years, Sidem fully focusses on steering and suspension parts, which makes us the expert in the industry. We control the entire manufacturing process, from design to production and warehousing, all based in Europe. This way we can guarantee the premium quality of our products and reliability of our services.

Our in-house engineering team designs solutions to meet the highest standards of performance. Sidem's IATF 16949 certified production facility stands for state-of-the-art manufacturing, meeting the stringent requirements of Original Equipment Manufacturers (OEMs). We are proud to supply prestigious OEM brands like Porsche and McLaren.

And there is more! Sidem leads the aftermarket industry with the highest coverage and service level. Thanks to our focus on steering and suspension parts, reliability and stability, we are the trusted partner for specialised distributors in more than 90 countries worldwide. And this for decades! I want to sincerely thank our customers for the trust they place in Sidem.

I am proud of our heritage and excited for the future. Sidem will always be synonymous with premium quality, the highest coverage and service level in steering and suspension. This is our promise and pride.

Enjoy reading this magazine!



Gwen Verfaillie  
CEO, Sidem

**#WEENGINEER**

**#WEMANUFACTURE**

**#WEPERFORM**

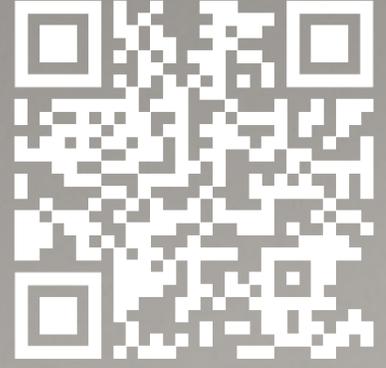


**#WEENGINEER**

**#WEMANUFACTURE**

**#WEPERFORM**





SCAN FOR OUR  
INTERACTIVE TOOL



# ENGINEERED INTO

## THE SMALLEST DETAILS.

At the heart of Sidem's success is its in-house engineering department. We co-develop parts with OEM, and go for continuous improvement with external experts such as Klüber Lubricant. For the aftermarket we start from the OE part and if needed we reengineer based on our experience within steering and suspension. This results in components developed with in mind a long lifetime, higher comfort, maximum safety and an easier installation.



### AXIAL JOINTS

Sidem uses a cold-forged chromium steel and a low carbon steel ball housing giving exceptional durability and safety. Our axial joints come always with a counter nut and, if applicable with a nylon spacer. These high-quality components provide a secure and long-lasting connection in your vehicle's steering system.



### BALL JOINTS

Sidem ball joints are engineered for exceptional durability and performance, manufactured from cold-forged chromium steel for superior strength and corrosion resistance. The rolled and burnished pivoting ball stud, combined with a POM insert, ensures a smooth and precise movement, reducing wear and a higher driving comfort. Besides, the lifetime lubricant, co-engineered with Klüber Lubricants, creates a protective film against moisture, minimizing friction and wear. The rolled thread on the ball pins improves thread stability, providing greater reliability under load and reducing the risk of thread failure. Moreover, the chloroprene rubber dust cover has grooves and elastic steel springs, resulting in a closed system that effectively prevents water infiltration. This thorough design extends the lifespan of the ball joints and guarantees safety even in extreme conditions.



### TRACK CONTROL ARMS

Sidem track control arms are crafted for strength and durability, using top-quality forged steel, forged aluminium, sheet metal, or nodular cast iron. The arms have a cathodolysis coating that provides excellent corrosion protection. Sidem track control arms ensure maximum safety and longevity.



### TIE ROD ENDS

Sidem tie rod ends are forged for maximum strength in high-stress conditions. They come in either aluminium or steel, and are sandblasted for a perfect finish. Their steel bodies get an extra phosphating treatment for corrosion protection.



## STABILIZER LINKS

Sidem stabilizer links offer robust construction and high corrosion resistance, guaranteeing driving stability. They are made from extra strong low carbon steel, connecting rods with an automated flash welding technique for strong and clean welds. Our stabilizer links are finished with white zinc or black powder coating, for the best protection against corrosion.



## STRUT MOUNTS

Sidem strut mounts ensure safety with a strong, durable construction. Superior rubber and excellent metal-to-rubber bonding withstand constant forces. The optimized stiffness, flexibility, and Shore hardness guarantee driving comfort, stability, and a correct wheel alignment. Sidem strut mounts are equipped with thrust to allow steering movements while handling high loads and impacts.



## SILENT BLOCKS

Sidem silent blocks are engineered for optimal strength and driving comfort. They are made from superior rubber with impeccable metal-to-rubber bonding. Rigorous tests ensure our silent blocks meet critical properties like stiffness, flexibility and Shore hardness. All for an enhanced driving comfort and stability.



## STEERING RACK GAITERS

Sidem steering rack gaiters, made from durable TPE, ensure maximum sealing for a long lifespan, resisting all weather conditions, chemical substances and wear. They come with high-quality clamps made from flattened spring steel, providing a system without deformation to lock them firmly in place.



# EXCELLENCE IN ENGINEERING.

## LIFETIME LUBRICATING GREASE

Ball joint lubrication is important to prevent the part from drying out, corroding and wearing. The grease used in Sidem parts is co-engineered with Klüber Lubrication and assures a much longer life time due to a smoother movement and protection against water infiltration. Sidem always engineers its parts with in mind the longest possible lifespan, maximum safety, comfort and an easy installation.

### LONGER LIFE SPAN

The main reason for the failure of ball joints is corrosion caused by water infiltration. To prevent this, Sidem takes several measures. To start with the use of durable raw materials: e.g. cold-forged, polished chromium steel for the ball pin. This material provides increased strength and rust resistance. In addition, the dust cover which shields the ball pin and housing, should be securely sealed to the ball-pin and housing using spring steel rings that have the appropriate diameter, for a fixed installation onto the housing and a smooth movement between pin and dustcover top (tilting and rotating of the pin). Besides, the dust cover is designed with grooves on the inside to prevent water from seeping in between. Sidem ball joints are highly waterproof due to their combination of multiple features. Another important reason for failure is the use of low-quality lubrication. Therefore, the use of high-quality lubricant is crucial as it places a protective film on all vulnerable surfaces. Moreover, high quality lubricant retains its composition and features which prevent drying out, eroding and eventually failing.

### COMFORTABLE RIDE

The Sidem grease ensures that ball joints, tie rod ends, stabilizer links and axial joints are lubricated for an ultra-comfortable drive during a much longer period. This semi-synthetic grease reduces both static and dynamic friction, preventing stick-slip by absorbing starting and running torques. Thanks to specific additives, the grease adheres better to both steel and plastic components (polymer inserts). As a result, the grease will function for a longer period and provide a better dampening effect between the friction bodies.

### CO-ENGINEERING

Sidem lubricant is the result of a co-engineering effort between Sidem's R&D department and Klüber Lubrication. Steering and suspension parts are exposed to demanding conditions in day-to-day use (torque, temperatures, weather conditions). So, several types of lubricants were tested intensively in Sidem's laboratories before the perfect solution was found to ensure the longest lifespan. Last but not least, the grease composition is free of heavy metals and black solid lubricants and makes the solution even more durable.



Our reengineered and patented ball joints combine features that have been tested and improved one by one, resulting in a perfectly performing product.

- 1 INSERT IN SELECTED POLYMER**  
Resistant to high temperatures, high impacts and high wear resistance.
- 2 LIFETIME LUBRICATING GREASE**
  - No friction: prevents drying and wearing out
  - Better adhesion
  - No water-infiltration
  - Longer lifespan
- 3 COLD FORGED AND POLISHED CHROMIUM STEEL BALL STUD**
  - Maximum strength
  - More rust resistant
  - Less friction, increased lifespan
- 4 HOUSING FINISHING**  
Rounded edges prevent the dustcover from being damaged.
- 5 DUSTCOVER IN CHLOROPRENE RUBBER**
  - Maximum resistance to chemical substances.
  - Best sealing from moist and dust.
  - Extreme resistance to endurance and temperature.
- 6 DUSTCOVER IN COMBINATION WITH SEAT**  
Prevents dustcover from collapsing.
- 7 ELASTIC SPRING STEEL**
  - Diameter is maintained
  - Maximum sealing
  - No deformation
- 8 DUSTCOVER GROOVES**  
Prevent water infiltration.



## PATENTED BALL JOINTS

Sidem has developed and patented a ball joint giving an absolute secure connection between the track control arm and the steering knuckle. The locking system is designed in such a way that the part locks itself when it is pressed into the control arm.

### APPLICATION

Ball joints are an essential component of the vehicle suspension system. They connect the track control arm with the steering knuckle, allowing both steering and suspension movements.

### PROBLEM

- It is important to note that some car models use a pressed-in ball joint in the track control arm. If this joint has already been replaced, the mounting hole in the control arm will be stretched. Pressing in a new ball joint into that arm can lead to very dangerous situations as the fixation is no longer as tight and secure as required.
- Regular aftermarket ball joints won't fix this issue as they are not a secured fit and can loosen, which is extremely dangerous.
- Besides, welding the new ball joint in place is not an option. This will cause damage to the ball joint (melting the ball stud insert; damage the dust cover) with a guaranteed part failure as a result.
- As a consequence, the complete track control arm must be replaced instead of only the ball joint, resulting in higher costs and greater waste.

### SOLUTION

- Sidem has developed and patented a new concept for the fixation, which guarantees an absolute secure fit. The locking system is designed in such a way that the part locks itself in when it is pressed into the control arm. The concept is applied to four types of ball joints.
- The ball joint is equipped with an external collar. This collar clamps to the edge of the mounting hole, firmly fixing the ball joint into place.
- The part is easily pressed in and ensures a necessary tight and secure fit. Regular ball joints require a minimum push-out force of 10kN, whereas the Sidem patented ball joints have an average push-out force of 22kN, which is more than double the regular value. The best performing patented Sidem ball joint (reference 5783 R) even reaches 27,5kN.
- Sidem's solution offers a straightforward and secure method for replacing the ball joint in the control arm without the need to replace the entire system.
- The new ball joint fixation system offers enhanced safety and long-term steering comfort, providing a superior solution for customers.
- Safety note: In the event of a damaged control arm, it is imperative to replace the entire track control arm along with the ball joint.



“ Our 90+ years of experience go into every component. We engineer parts to last, be safe, be comfortable, and be easy to install.”

Vlad Manoliu, R&D Manager



# EUROPEAN MANUFACTURER

## FOR OEM & THE INDEPENDANT AFTERMARKET.

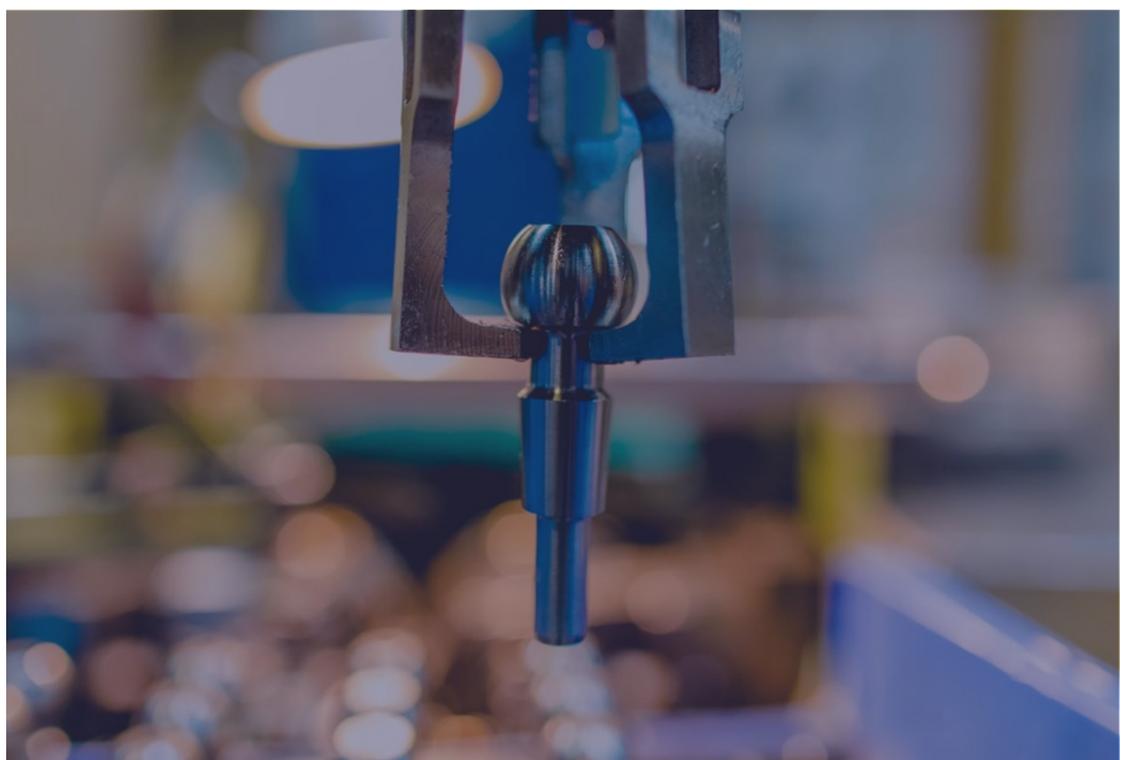
Sidem is a family-owned company founded in 1933, the leading specialist in engineering and manufacturing of steering and suspension parts for Original Equipment Manufacturers (OEM) and the Automotive Aftermarket. Sidem has its own in-house engineering team, an IATF-certified manufacturing plant and a central warehouse, all based in Europe.

### OEM CERTIFIED SUPPLIER

Sidem's production facility is IATF 16949 certified, a Quality Management Standard for the automotive industry, in addition to the ISO9001 certificate. IATF 16949 is endorsed by the International Automotive Task Force (IATF), ensuring uniform quality requirements globally. This certification assures we meet the rigorous standards set by automobile manufacturers

### BUT WHAT EXACTLY DOES THIS IATF-CERTIFICATION MEAN?

- Highest quality: Sidem parts are manufactured to the strictest industry standards, meaning you can trust the durability, reliability and performance of every product.
- Trusted prestige: we are proud to be part of the supply chain of some of the world's most respected automotive brands as an OEM supplier: Porsche and McLaren.



“ As a holder of the IATF-16949 certificate, Sidem offers an excellent standard of quality that meets the stringent requirements of the automotive industry.”

Alin Covasa, Plant Manager



**OWN PRODUCTION IN EUROPE**

Located in Suceava, Romania, Sidem’s manufacturing facility is a testament to its commitment to quality and efficiency. By maintaining control over the entire manufacturing process, from design to production and warehousing, Sidem ensures the consistent delivery of premium products and services to its customers.

Last but not least it is important to note that our manufacturing plant uses the same quality standards and processes for all its products. Also for the aftermarket, parts are engineered, tested and manufactured according to the IATF and ISO quality standards.



**EFFICIENT MANUFACTURING**

The Sidem manufacturing plant is ISO 14001 certified, which means it has an effective environmental management system. To comply with ISO 14001, a company must take steps to manage its environmental responsibilities effectively.

Sidem implements lean manufacturing, which focuses on waste reduction and higher efficiency by streamlining processes. The 5S methodology helps to organise the workplace to improve productivity, safety and quality. Training of the staff and continuous improvement actions guarantee we meet our efficiency standards or improve if needed.

Sidem never stops investing in the production plant. We focus on automation and energy-efficiency. Some examples:

- CNC machines with automatic loading for turning, milling and drilling
- Automatic machines loaded by step feeders for rolling and threading
- Automated spot welding: enhances precision and reduces material waste
- Fully automated assembly and packaging lines for ball joints, tie rod ends, stabilizer links, axial joints and track control arms.



# HIGHEST COVERAGE

## OF THE AFTERMARKET.

### ONE NEW PART ADDED PER DAY

Sidem is all about steering and suspension parts for Private (PV) and Light Commercial Vehicles (LCV) for all engine types, including Internal Combustion Engines (ICE) and all types of Electric Vehicles (BEV, PHEV, HEV). Our focus and expertise implies we have a coverage of 95%, the highest score of the aftermarket industry! The Sidem Product Management team monitors the market on a daily basis, adding more than one new part a day and completes in average 4 car model with all relevant steering and suspension parts per month.

Besides, Sidem is TecDoc® data supplier.

### HIGHEST SERVICE LEVEL

We deliver on our promises, as we have one of the highest service levels of the aftermarket: 98%.

### AVAILABILITY IS KEY

Workshops need parts delivered fast to serve their customers. Sidem provides its distributors with a unique service: Sidem Concept. We analyse vehicle in operation figures in each country and predict which parts should be available at distributors per type of car, year and specific parts needed. This way, Sidem distributors can stock missing parts and make them available in their region for their customers.



more than  
**10.000**  
references



more than  
**4 000 000**  
parts in stock

" Aftermarket distributors  
rely on Sidem because  
of the high coverage  
and availability."

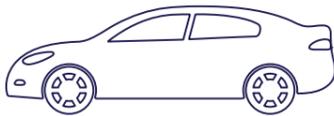
Stefan Claeys,  
Commercial Director

**95%**  
relevant  
coverage

### CENTRAL WAREHOUSE

The global Sidem warehouse is located in Belgium, the center of Europe. In this fully automated warehouse, parts are shipped all over the world with an average service level of 98 percent. Did you know that the 3 cranes in the Miniload process about 400 bins per hour? That means there are 400 bins per hour transported in and out of the system!

**50**  
car brands



**1.170**  
car models

## AWARD WINNING CATALOGUE.

The high coverage is bundled into a huge catalogue: 2,518 pages, 8 cm thickness and 4,5 kg! Of course this bible is also available online on the Sidem website and the Sidem Catalogue app.

The Sidem catalogue, both in print and online, was rewarded as 'Best Catalog of a Product Line', an award presented by the Auto Care Association in the USA.

### COMPLETE OVERVIEW

The easiest access to the complete range of Sidem steering and suspension parts offering you more than 10.000 references.

### QUICK ONLINE SEARCH

The fastest way to find all the steering and suspension parts that you need, 24/7.

### DETAILED TECHNICAL INFORMATION

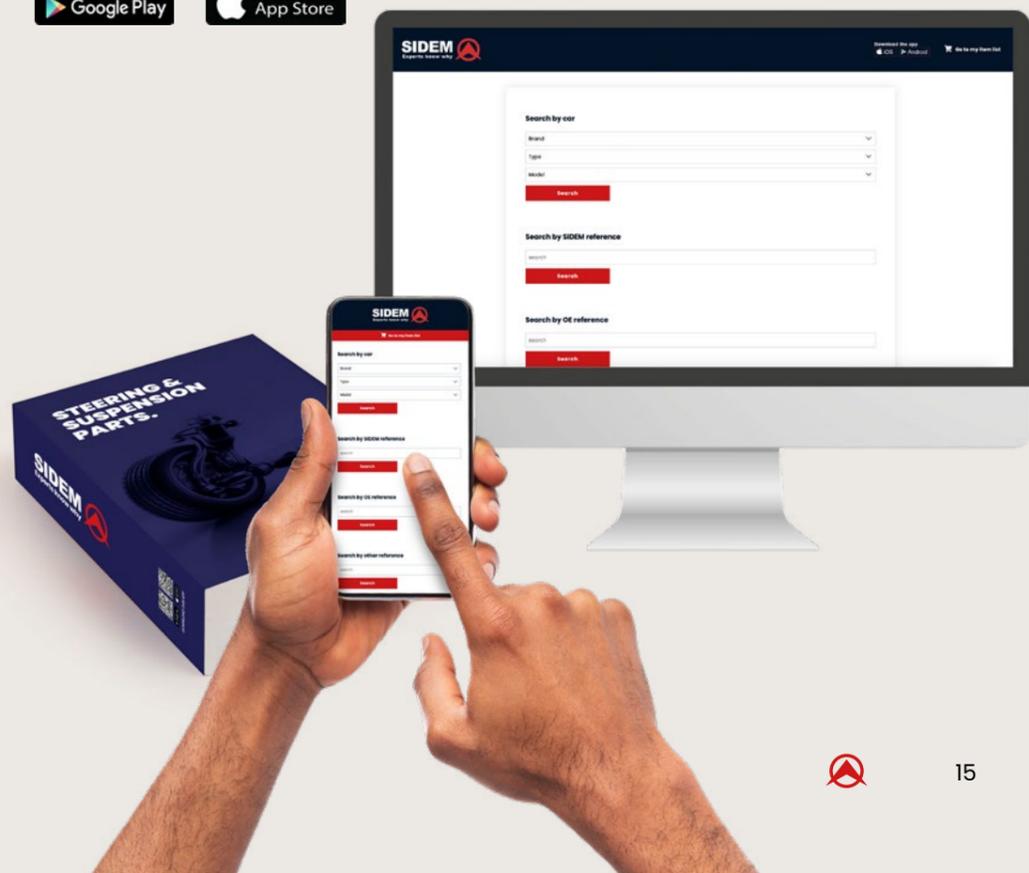
The essential specifications of all steering and suspension parts you are looking for, with detailed product photography.

### DISCOVER OUR ONLINE CATALOGUE

Explore our extensive range by visiting our online catalogue at [catalogue.sidem.be](http://catalogue.sidem.be). For an even more user-friendly experience, download our app using the QR codes. Enjoy seamless browsing, easy navigation, and instant access to the latest products and updates right at your fingertips.



## DOWNLOAD SIDEM'S MOBILE APP CATALOGUE



**98%**  
service level

**100%**  
focus on steering  
& suspension

# REINFORCED PARTS

## FOR BATTERY ELECTRIC VEHICLES.

Battery Electric Vehicles (BEVs) put extra stress on steering and suspension parts. Compared to combustion cars, BEVs are much heavier due to the battery pack and they accelerate much faster. Sidem's range of BEV components are reinforced to cope with this extra weight, the higher torque and vibrations for a safe and comfortable drive.

### STRONGER DESIGN

Sidem BEV steering and suspension parts use ball studs made from chrome steel for strength and durability. The ball pins' diameter is important to cope with the heavy load and higher torque of BEVs. Sidem's BEV ball pins for ball joints, axial joints and stabilizer links have a larger diameter than those for cars with Internal Combustion Engines (ICE).

Moreover, BEVs focus on aerodynamics to improve efficiency and their driving range. The suspension is designed to maintain the vehicle's aerodynamic profile, by reducing body roll when cornering. Sidem's BEV stabiliser links have larger ball pin diameters, ensuring the anti-roll bar can withstand the heavy load and higher torque of battery electric vehicles.



For several Tesla models, Sidem ball pin diameters are larger than the original equipment (OE) versions for extra resistance to the higher weight and torque.

### VIBRATION & NOISE REDUCTION

Finally, BEVs produce less noise and vibration than combustion engines. So, minimizing road noise and vibrations transmitted to the cabin becomes even more important. Sidem's range of silent blocks supports movement and isolates vibrations and noise for a higher driving comfort.



The Audi e-tron's track control arms are equipped with hydraulic silent blocks. The hydraulic fluid flows through rubber chambers, resulting in better absorption of even the smallest vibrations.

**84%**  
coverage

**32**  
car brands

**1073**  
items

**153**  
car models

**134**  
personal  
vehicles

**19**  
light commercial  
vehicles



**DOWNLOAD  
THE SIDEM  
BEV PARTS  
CATALOGUE**

**SAFER INSTALLATION**

Sidem also offers a track control arm with a different design as a solution to the problem of weak link ball joints. The ball joint of Sidem's track control arm for the first generation Tesla models is incorporated directly into the aluminum housing, resulting in the part functioning with maximum strength. This ensures a safe installation and drive.



Incorporated ball joint in track control arm for Tesla.

“ For ICE and all types of EVs, Sidem has the highest coverage in steering and suspension parts.”

Jonas Maelfait, Team lead  
Product Management



# WE CARE ABOUT

## DURABILITY & SUSTAINABILITY.

At Sidem, we're all about durability. As engineers, we design products that are built to last, offering a long lifespan, safety and comfort. As a manufacturer, we're committed to sustainability. Read here about the Environmental Management Program of Sidem.

### LONG LIFE SPAN

The best sustainable solution is not to have to replace or repair a product. This is the first consideration Sidem has as a responsible manufacturer: to design and manufacture high quality products with a long life.

### RESPONSIBLE ENGINEERING

Our R&D team is on a mission to engineer products by using raw materials with the lowest environmental impact. The table summarizes the key durability and sustainability advantages used in Sidem products.

### ENVIRONMENT, HEALTH & SAFETY

In addition to the IATF 16949 and ISO9001 certification, Sidem is also certified for other quality management systems:

- ISO14001 for 'Environmental Management': use of raw materials, waste management and pollution prevention;
- ISO45001 for 'Health and Safety Management': promoting a culture of safety within the Sidem organisation.

MATERIAL	DURABILITY	SUSTAINABILITY
<b>Chloroprene Rubber for dust covers</b>	High resistance to weathering, ozone, and chemicals, ensuring long-lasting performance and reduced wear.	Easy to recycle.
<b>Cold Forged Chromium Steel for ball studs</b>	Exceptional strength and toughness, ensuring long-term reliability.	Lower carbon footprint during production.
<b>Polyoxymethylene (POM) for inserts</b>	High stiffness and dimensional stability, ensuring consistent performance and longevity.	Low energy consumption during production and recyclable.
<b>Low Carbon Steel for housings</b>	Adequate strength, more ductile and easy to form.	Reduced carbon emissions during production compared to high carbon steels.
<b>Forged Aluminium for track control arms</b>	Lightweight yet strong performance.	Highly recyclable, reducing the need for virgin materials and minimizing environmental footprint.
<b>Thermoplastic Elastomer for steering rack gaiters</b>	Flexible and resilient.	Can be recycled and repurposed, reducing waste.
<b>Klüber Lubricant for ball joints</b>	Effective lubrication, reducing wear and tear and optimal water resistance	Free of heavy metals and black solid lubricants, reducing environmental impact, energy use, emissions and water consumption.

## ECO-FRIENDLY PACKAGING

We take great care to pack our products securely to keep them safe from damage. At the same time, we make sure they're packed efficiently to minimise the amount of air in the packaging. Plus, our parts are packed in one single packaging. We use fully recycled plastic bags, which are then transported in cardboard containers on reusable pallets.



“Efficiency is in our DNA. In our engineering, manufacturing and warehousing, we strive for the highest durability of our products and lean processes with the environment in mind.”

Pedro Dewulf,  
Operations Director

## ENERGY EFFICIENT BUILDINGS

Both the production plant and central warehouse are equipped with energy saving measures: solar panels, LED lighting, motion sensors, automatic sunshades, etc. Our Belgian headquarters and distribution center is powered by solar panels, generating 700,000 kWh of

green energy annually, the equivalent of energy supply for 180 families for a year! The building features a concrete structure and roof, which help keep it cool in summer and warm in winter. Combined with a highly insulating roof and an intelligent ventilation

system, our facility is extremely energy efficient. We are committed to using battery electric vehicles (BEVs), and the Sidem parking lot is equipped with electric charging stations for both employees and visitors.



## SIDEM DOCUMENTATION

# TOOLS & TIPS

## FOR MECHANICS.



### INSTALLATION VIDEOS

Visit the Sidem Youtube channel and find solutions about the installation of steering and suspension parts.



### MOUNTING ADVICE

Scan the QR code to download the brochure with tips for the inspection and repair of steering and suspension parts.



### INTERACTIVE PRODUCT TOOL

Scan the QR code to discover the Sidem product ranges into the smallest details.



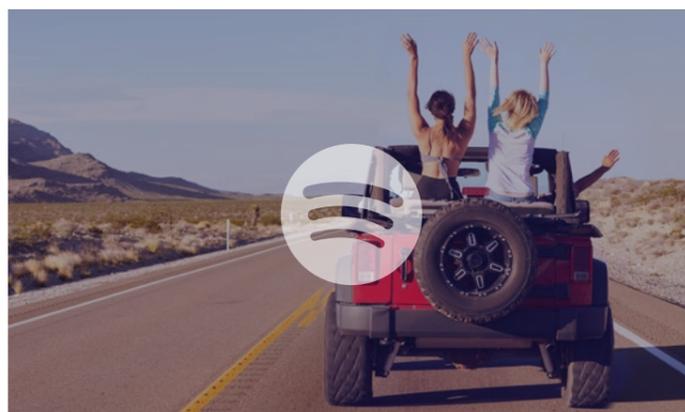
### SIDEM MOVIE

On your marks, get set, go! Scan the QR code for the Sidem movie.



### NEWSLETTER

Subscribe on sidem.eu to receive our digital newsletters.



### SIDEM ON SPOTIFY

Sidem's car playlists on Spotify are the ultimate pit stops for your musical journey, making every road trip feel like a joyride!





**FOLLOW US**



# GLOBAL PRESENCE.



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# SIDEM STEERING & SUSPENSION.

**DRIVEN BY FOCUS.  
LED BY EXCELLENCE.**

Sidem is a family-owned company founded in 1933, the leading specialist in engineering and manufacturing of steering and suspension parts for Original Equipment Manufacturers (OEM) and the Automotive Aftermarket. The company offers the most comprehensive range in the industry with over 10,000 references for private and light commercial vehicles. Sidem has its own in-house engineering team, an IATF certified manufacturing facility and a central warehouse, all based in Europe.

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