

**STEERING &  
SUSPENSION  
PARTS.**



## **RE-ENGINEERED TECHNOLOGY®**

**RIDGED BALL JOINTS  
PREVENT EARLY FAILURE.**



## RIDGED BALL JOINTS PREVENT EARLY FAILURE.

Ball joints connect the track control arm with the steering knuckle, allowing both steering and suspension movements. As they constantly move, they are naturally subject to wear. However, a well designed ball joint will take you sufficiently further!

### PROBLEM: PREMATURELY BALL JOINT FAILURE.

Water is one of the main enemies of a ball joint. Once it makes its way inside the joint, corrosion will wear it down rapidly. This is why quality dustcovers on ball joints, along with the correct sealing pressure of the dustcover rings, are vital for its lifetime.

In the OE-design of several ball joints with cylindrical ball pin we've noticed early wear of the dustcover. This is caused by the friction of the dustcover against the open steering knuckle. The edge of the steering knuckle scraping against the top of the dustcover, wearing it down rapidly and destroying the sealing for water. As a result, the ball joint starts to corrode and wears out.



### SUMMARY.

By reengineering multiple ball joints with cylindrical ball pin, Sidem seriously improves the lifetime of your ball joint.

### APPLICATION: WHICH PART WAS IMPROVED?

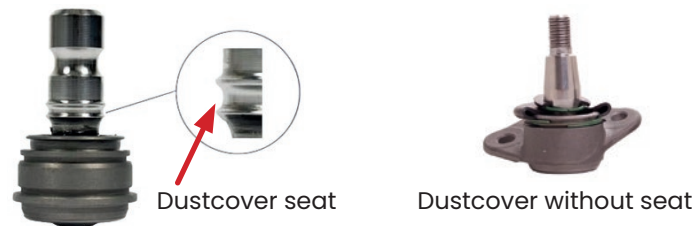


### SIDEM'S SOLUTION: THE RIDGED BALL JOINT.

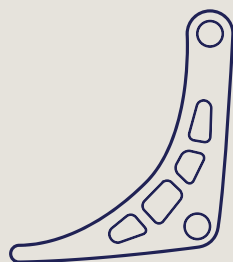
Sidem's Quality and R&D department joined forces to redesign these ball joints. The solution was found in adding a metal ridge just above the top of the dust cover. This ridge prevents contact between the top of the dustcover and the steering knuckle. Without this contact, the dustcover is secured to perform without friction and risk of failure.



Additionally, as frequently applied with Sidem ball joints, a dustcover seat is applied to prevent the dustcover from collapsing during mounting.



# WHY EXPERTS RELY ON SIDEM.



**own engineering  
& manufacturing**

**100%**

focus on steering  
& suspension

**95%**

relevante  
coverage

**98%**

service level

**Electrical &  
combustion**  
cars

**private  
& light  
commercial**  
vehicles

**>90**  
countries  
worldwide

more than  
**10.000**  
references

more than  
**4 000 000**  
parts on stock

**50**  
car brands

**1.170**  
car models

## ABOUT SIDEM.

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.

**STEERING &  
SUSPENSION  
PARTS.**

**SIDEM.EU**

**SIDEM**  
Experts know why