

The **Société d'Ardennaise Essieux** was established in **1944** thanks to the enthusiasm and expertise of 3 skilled technicians.

The quality and reliability of its products made it a leading manufacturer of axles and suspensions for industrial trailers in Europe.

Since the 90s, **SAE** is a trademark for axles and suspensions both mechanical and pneumatic, particularly appreciated by the manufacturers of special trailers, low loaders, tankers, dump and forestry trailers.

The merging with **SMB** improved the distribution of its products, even to the commercial transport with the maximum production of 50,000 units in 2008.

After several ups and downs due to the global economic situation, the **SAE-SMB**, today is a member of the multinational **ADR** and is recovering the market for high-tech products, thanks to an ambitious program of investment in research and development.



THE SMART WAY TO INNOVATION

The manufacturer of a vehicle needs a company he can always rely on. This co-operation pushes to search for innovative solutions and improve quality and service.

This confidence is based on

RESEARCH, QUALITY, EXPERTISE OF THE PRODUCTS

The manufacturers find in SAE-SMB valuable technical support to plan the mechanical solution for the under carriage and can thus focus their attention on other aspects of the functionality of the vehicle.

MOVE WITH US

Axles with disc brakes

Today most of the trucks have disc brakes, therefore the use of the same braking system on the trailer gives uniformity of behavior of the road train, improving the feeling of safety for the driver and his driving comfort.

Disc brakes have few components, their maintenance is simple and reduced. They assure maximum efficiency under all operating conditions and maintain high performance even at high temperature.

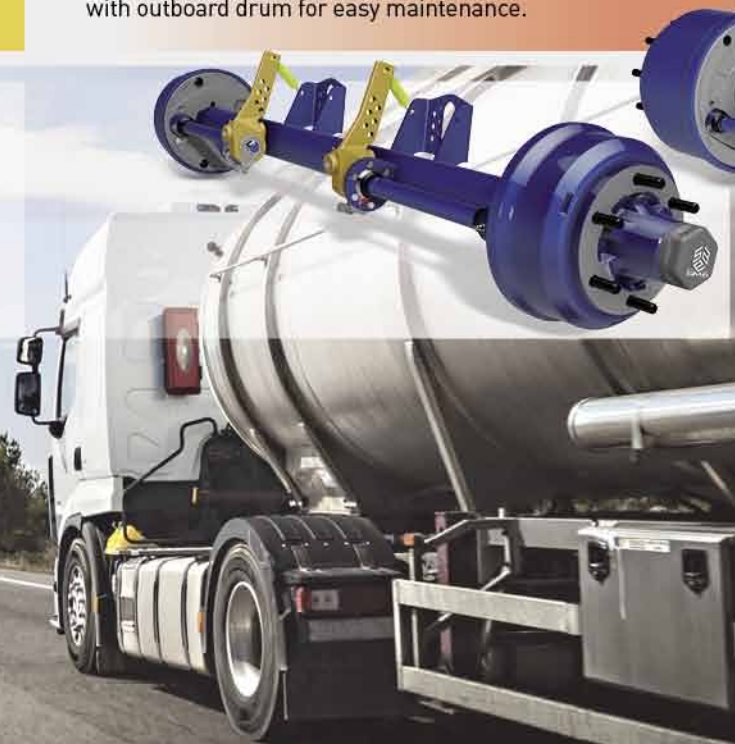
the new design for 22.5" offset wheels is the focus of the whole experience SAE-SMB in this field



Axles with drum brake

Easily adaptable to every kind of construction. The focus of SAE-SMB to the needs of special transport is covered by the axle with brake **330x160**, 11 tons capacity and compatibility with 17,5" wheels.

The small **300x100** axle braking with 5.5 tons capacity, is a project targeted for toll-free transport in Germany. The top of the range is the **new C1**, 14 tonn axle capacity with outboard drum for easy maintenance.



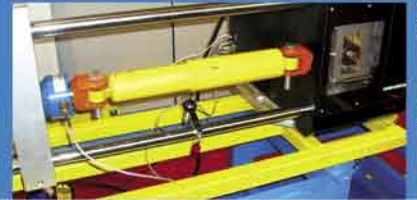
RESEARCH IT'S THE HEART OF TECHNOLOGICAL INNOVATION

It originates from individuality and is enhanced with the support and experience of many people, from scientists and operators of the customer's service as well.

In the testing centre axles and suspensions are tested both for the structural effectiveness and brake efficiency.

Last but not least, the final verdict is on the road, where tested vehicles face their true conditions everyday.

WE WITH US

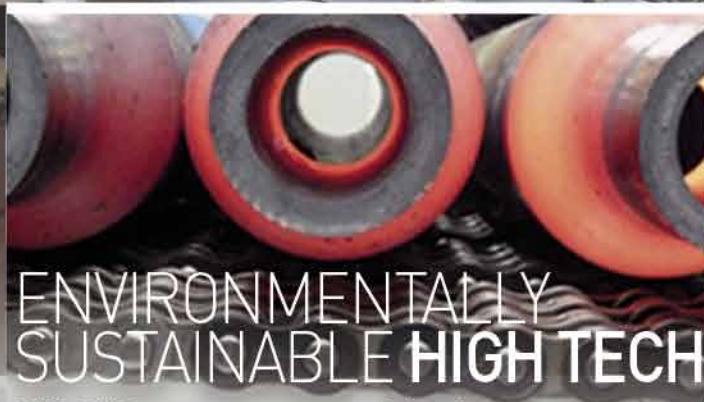


Self steering axles

Tire wear is reduced on trailers and semi-trailers fitted with self-steering axles, the handling of the truck and its fuel economy is improved.

With the self-steering axles also remould tires can be used with improved safety.





ENVIRONMENTALLY SUSTAINABLE HIGH TECH

SAE-SMB processes are eco-friendly. The bodies of the axles have monolithic tubular structure, with the integrated hot-forged spindles. The absence of weldings in critical areas of the product ensures maximum reliability, durability and optimized performance to weight ratio. The cathaphoresis finishing coating gives the maximum protection and great effectiveness over time and sustainability as well.

The process for the production of the body axle led the designers to innovative choices about materials and mechanical solutions, focusing on the size of bearings, in view of the construction of a product suitable both for the western markets to the extreme working conditions of the developing countries in order to allow the manufacturers to produce multi purpose vehicles, with all the benefits coming from the unification of components together with the advantage of detailed information about the impact of a trailer to the market.

CERTIFIED PERFORMANCE

The SAE-SMB axles meet the **ECE-R13** requirements and their characteristics are recognized both in Europe and in most of the industrialized countries throughout the world.

Thus the manufacturers of vehicles can define their products from the early stages of the project and achieve international visibility.



Specials

The expertise and skill of SAE-SMB are at their best in special constructions such as the swinging axles for oversize transports and all cases of extremely high loads.



Suspensions

Air suspension is nowadays the most widely used on commercial vehicles. It is simple, versatile and modular.

Compared to traditional suspension: The attitude of the vehicle can be adapted to loads and paths.

The self-leveling mode maintains the height of the vehicle constant regardless of the load conditions.

It can automatically compensate for the braking dynamics, always ensuring the best grip.

It can stabilize the vehicle in cornering and be implemented with ABS and ESP devices to optimize road holding of the vehicle.



SAE-SMB introduces a 9-tonne suspension with disc brakes, which optimizes the overall dimensions of the chassis



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