



TOWBARS



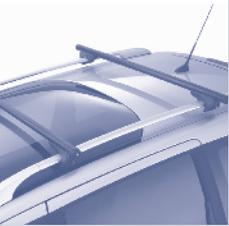
bosal



Towbars



Exhaust systems



Roofbars



Jacks



Tubes



Warehouse Racking



Irrigation



Vehicle cabs

Automotive

Manufacturing Plants: 25

Distribution centres: 27

Bosal's product range

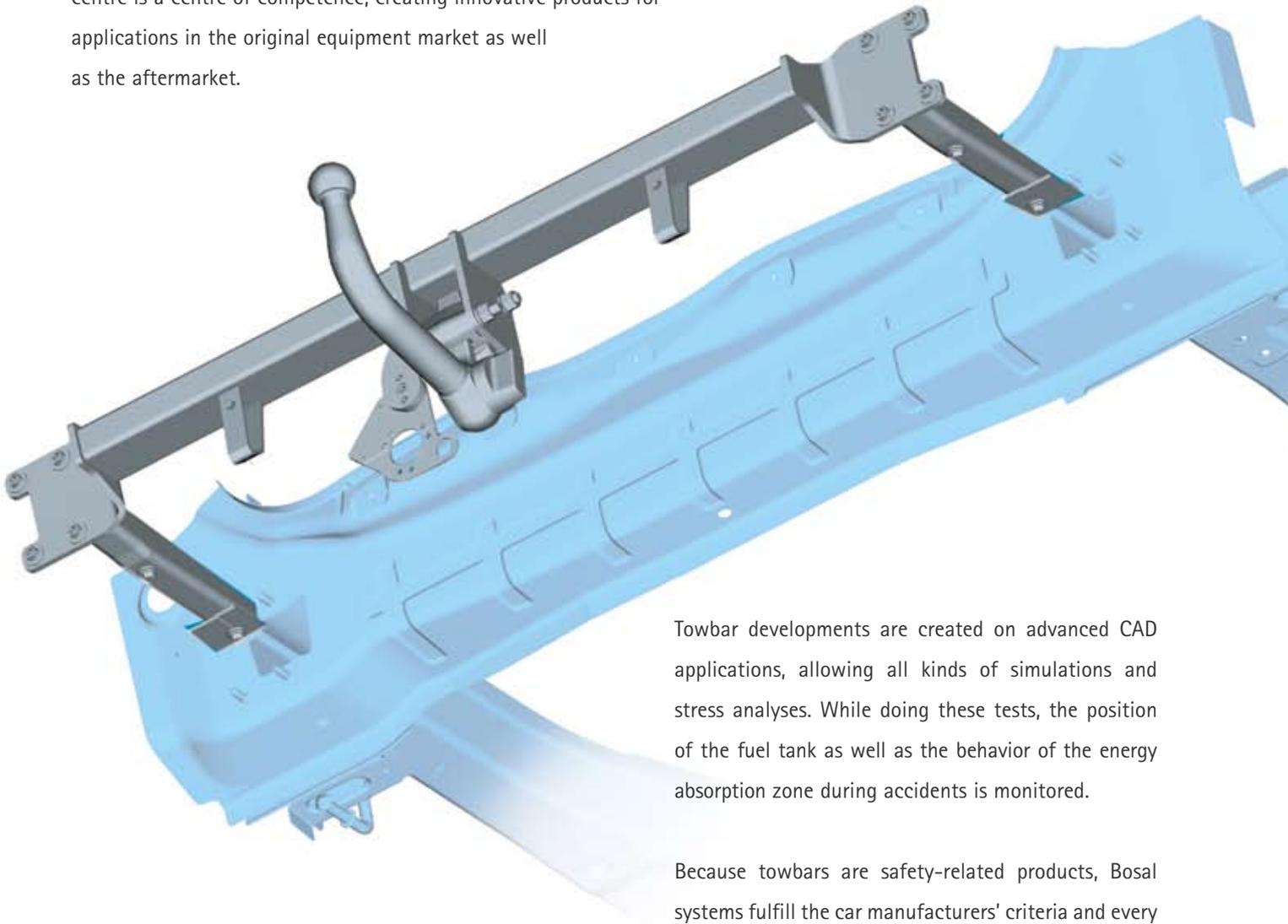
Industrial

Manufacturing Plants: 7

Research and development



Today, the pace of change in the automotive aftermarket has become more rapid than ever. There is a greater variety of car models and an inflow of new products which leads to a growing complexity of the product range. Nowadays, motorists require a more versatile and practical car, adapted to their way of living. As a result, towbars have become an indispensable car accessory, as much for leisure as for work. The research and development centre is a centre of competence, creating innovative products for applications in the original equipment market as well as the aftermarket.



Towbar developments are created on advanced CAD applications, allowing all kinds of simulations and stress analyses. While doing these tests, the position of the fuel tank as well as the behavior of the energy absorption zone during accidents is monitored.

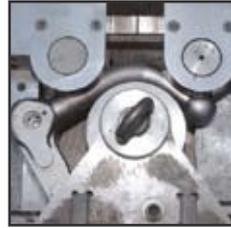
Because towbars are safety-related products, Bosal systems fulfill the car manufacturers' criteria and every towbar has an individual type approval specifying for which car model and application it can be used.

Production



The competitive edge of Bosal is the vertical integration of the company. Bosal has developed an in-depth understanding of the value chain thus achieving cost leadership with unrivalled quality. All manufacturing processes of the plants worldwide are based on the same concept and are certified to TS16949 quality standards, thus ensuring the same product specification wherever the product is manufactured. Bosal towbars are manufactured

from various types of high quality steel which possess different levels of flexibility. This allows forces on the towball to be transmitted optimally to the car structure. The parts are cut and welded with the latest laser cutting machines and welding robots. Finally, the towbars are finished with an epoxy powder, meeting the highest standards in the automotive industry.



Fixed towbar systems

The growing need for versatility of the car has led to an increasing demand for towbars. They increase the efficiency of day-to-day work and also offer many benefits for leisure activities. Whether towing a horsebox, caravan or boat, transporting bicycles or using a trailer, Bosal has the towbar for the job.



Welded

The towball is welded to the system and therefore not removable. The towbar is designed to fit perfectly and undergoes every task without a problem. The high-quality finishing ensures the towbar will last all the way through a long and demanding lifetime

Standard Bolt-on

The towball is integral with the car and cannot be removed without tools. It uses tried and tested technology of the highest standard. Fixed towbars are recommended for frequent use.





Flange ball

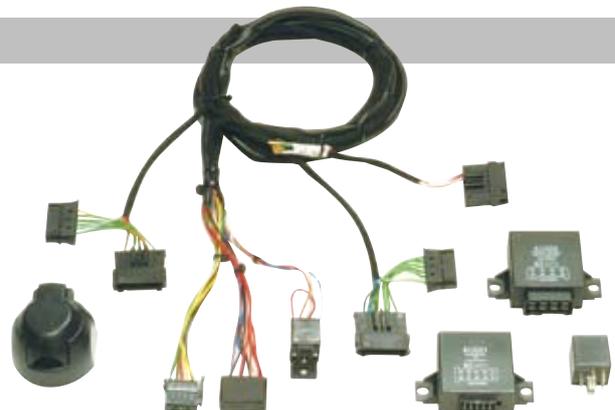
The towbar is suitable for heavy-duty towing and is therefore recommended for commercial and off-road vehicles. The design can vary from a two- to a four-hole fixing (height adjustable) depending on the car type.

E-sets

Today's cars are known for the ever-increasing complexity of their electronic systems. Using universal cable sets could interfere with these electronic systems. That's why Bosal offers a specific cable set for every type of car which guarantees a trouble-free installation without wire cutting or searching for the right cable.

The 7-pole system is the version which takes care of the basis electronic functions of the car. If additional functions are required for the caravan or trailer 13-pole wiring systems are available to enable the necessary connections. The Bosal e-set includes the selected socket (7 or 13-pole DIN), mounting instructions and all necessary mounting parts.

High quality production and optimal wire thickness ensure a long working life.





Detachable towbar system

Car manufacturers invest heavily in the design of their cars. A fixed towbar upsets the balance and symmetry of the car's original design. Bosal towbars are the answer because they can easily be removed when not needed, leaving the line of the car as the designer intended. The detachable towbar also has practical advantages – it doesn't obscure low mounted number plates or catch on clothing when not in use.

Ecofit

The Ecofit is Bosal's latest detachable towbar concept. It combines reliability and ease of mounting with excellent value for money. Ecofit is the detachable solution for every motorist.

AK4

Bosal's horizontal automatic detachable system is a state of the art design. Attaching and detaching requires only a one-handed operation. A small cover is visible when detached.



ems



AK6

The ultimate Bosal detachable system that is completely invisible after detaching. The socket plate rotates and is hidden behind the bumper. The towball can be attached and detached quickly and easily.



Expanded product elements

Bosal's vertical integration of the various business processes ensures specific expertise and know-how of all aspects of the product design, production and distribution processes. Standardization of the manufacturing processes worldwide ensures the same product specification and lowest cost wherever the product is manufactured.

Range

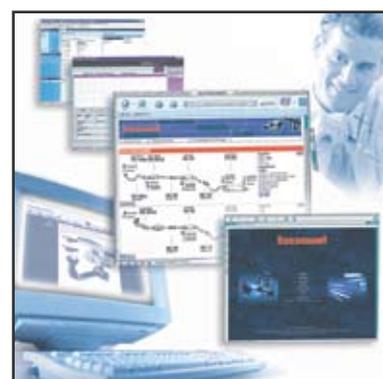
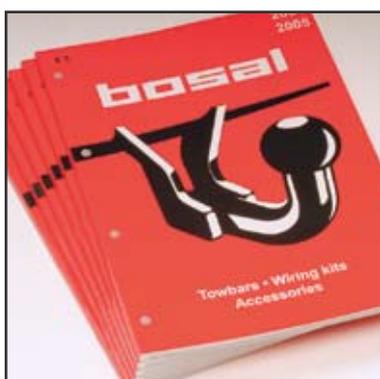
Thanks to its intensive market research and customer feedback, Bosal is in tune with changing market circumstances. That's why Bosal has the widest range of towbars and electrical wiring kits available in Europe. Over 4000 references are available in the range to serve the European market with towbars, E-sets and accessories. Bosal advises its customers on stock optimization, ensuring a high product availability combined with a balanced stock level.

Logistics

Bosal is a global supplier with a local presence everywhere. 'Smart' logistics is one of the key success factors and an important expanded product element that offers a substantial added value to every customer. Bosal adapts its systems to meet specific transport or warehouse solutions requirements for every fitter, wholesaler or warehouse distributor.

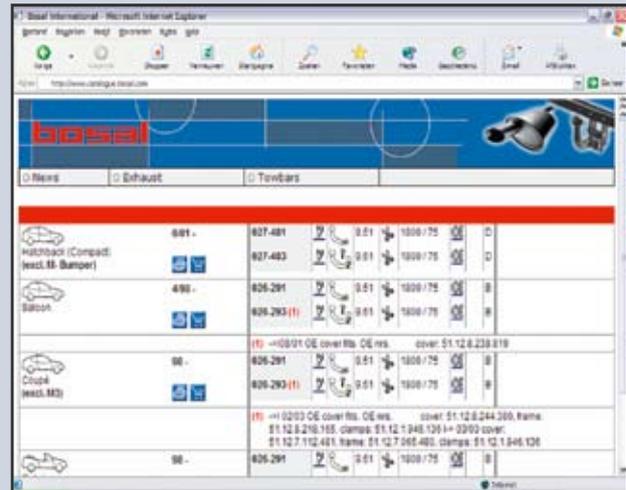
E-business

Innovative and responsive logistics are being enhanced and supported with E-business solutions that build on Bosal's partnerships with customers.



Web catalogue

To cope with the wide range of products, Bosal has invested heavily in easy-to-read printed and electronic catalogues so that parts can be identified and ordered easily and quickly. Bosal's 'State of the Art' web catalogue is updated daily with the latest information on new products and product developments. The web catalogue is easily accessible for the customer base and includes detailed mounting instructions which can be printed out, as well as the European type approval certification for each towbar type.



Warehouse racking

Bosal manufactures its own warehouse racking and has developed a specialized warehouse concept. This enables Bosal customers to organize their warehouses in an optimal way, using less floor space and saving time when picking towbars.



Helpline

A dedicated, professional and highly skilled team is on hand to respond to all customer queries. Bosal's helpline gives prompt advice on all technical issues.



Product training

Bosal customers are regularly invited to attend product seminars to stay up-to-date with the latest product developments.



Headquarters

Bosal International N.V.
Dellestraat 20
3560 Lummen
Belgium
Tel +32 (0)13 530800
Fax +32 (0)13 531411

Bosal (U.K.) Ltd.

330 Four Oaks Road
Walton Summit Centre,
Bamber Bridge
PR5 8AP
Preston, Lancashire
United Kingdom
Tel +44 (0)1772 771000
Fax +44 (0)1772 312750

Bosal Ireland Ltd.

Unit 5, Knockmitten Lane
Naas Road
Dublin 12
Ireland
Tel +353 (0)14 565644
Fax +353 (0)14 566447

For further information visit
our website at www.bosal.com
or contact your local Bosal
towbar specialist.

WWW.BOSAL.COM

© Bosal International 2005 - English version



bosal