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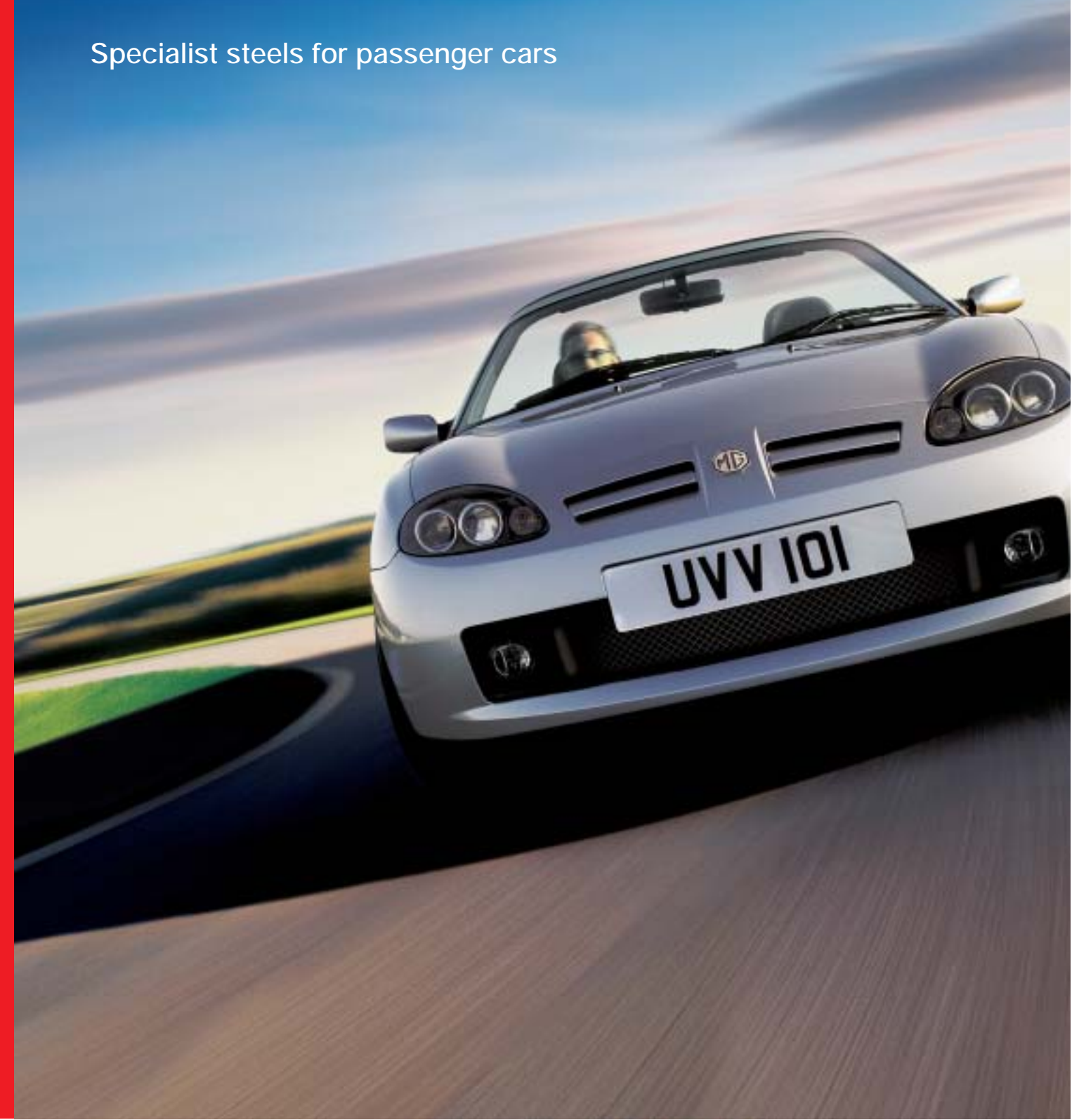
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English language version

Reference Number: CES16:2000:UK09/2003

# Driving performance

Specialist steels for passenger cars



# Driving performance

Supporting a market as diverse as the automotive industry demands a comprehensive production and supply infrastructure. Corus Engineering Steels is one of Europe's largest producers of automotive metals and we have cultivated a worldwide reputation for quality and reliable service.

Everyone in the supply chain, from raw material manufacturers through to the ultimate consumer, has experienced the continuous drive for higher performance, improved technology and increasingly economic and environmental pressures.

We have been supporting manufacturers since the earliest days of the industry and will continue to respond to change, introducing new materials, improving quality, developing added value services and minimising final component costs.

Corus – helping to keep our automotive customers in the lead.

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# Moving forward

With every design advance, core materials have to work harder and survive in increasingly extreme conditions. Today, there is only one type of car – a high performance car. Even the smallest family car delivers incredible power, running leaner, faster and longer.

Our commitment to innovation has enabled designers to use steels that not only protect the integrity of the machine, but keep through costs to a minimum. For example, our FRACTIM steels enable the forged conrod to be fracture split rather than

expensively machined. The perfect fit of the resulting cap and body also leads to better service performance providing additional benefit to the component manufacturer. We are already working on materials that will perfectly suit the needs of future car

designs – we're even planning for the next generation engines.

Whatever the future material challenge, Corus is ready to meet it.





# Peace of mind

**Steel is at the heart of every car. Bearing the load and taking the strain, every steel component is built to last.**

Most car components are subject to a range of complex bending, torsional and cyclical stresses during their working life. Many are used in safety critical applications where any failure could have catastrophic consequences. With no margin for error, materials must withstand every load without deteriorating over time. Stronger than many alternative metals, steels deliver the optimum balance of properties to meet these requirements.

Steel's strength permits the design of smaller, and more slender compact components. By fully utilising all the additional attributes of the material, designers can reduce total weight and improve performance without any loss in safety.

In many cases steel components outperform other materials and now offer considerable cost savings. For instance, air cooled forging steels –

such as our range of microalloyed VANARD steel – do not require additional heat treatment to achieve the design strengths. This development has reduced manufacturing costs, as a result steel is now the material of choice.



# Creative thinking

Quality begins long before manufacturing - it starts with design. Creative thinking and a total commitment to developing proactive relationships with our customers has made us one of the world's premier automotive materials suppliers.

Working in conjunction with Corus Automotive Engineering we successfully bring materials science, technology and automotive design together. Our ability to see past the material itself, with an understanding of the whole supply route and application environment,

has allowed us to develop innovative solutions. We have helped car designers reduce component weights, improve service life and eliminate undesirable phenomena such as gearbox "whine".

With one of the largest manufacturing and service organisations and some of the world's leading material specialists on hand, we can offer our customers unparalleled technical support.



# The efficient route

**The automotive industry has consistently led the drive to improve supply chain management and many advances made in this field have originated in the automotive market place.**

The automotive supply chain is complex and the number of processes involved in vehicle manufacture is breath taking.

We continually work alongside key automotive groups to develop more efficient supply routes and support every kind of supply environment; making value stream mapping and supply chain management a priority at every level of the supply chain. With a strategically located service centre in the UK, we can support JIT deliveries

to manufacturer's right across Europe. The Service Centre also has the capability to supply cut pieces to schedule and tailored service solutions.

Keeping costs to a minimum without undermining quality is vital. Working together we are achieving the savings our customers need and the quality their customers demand.

# The right choice

No other automotive materials manufacturer supplies products and services with the breadth and quality of Corus Engineering Steels. With thousands of active specifications, our automotive portfolio is complete.



Our product range is as varied as the automotive industry itself. Only a world class supplier can reliably provide the performance demanded by car and component manufacturers.

Every steel bar at Corus is manufactured to precisely defined specifications in rigorously controlled

processes, ensuring repeatability of product quality from bar to bar, cast to cast.

The hallmark of our success is our ability to deliver consistent, high quality materials in the right quantity at the right time; day after day, year after year.

# Performance Steels

We supply steel in the quantity and variety to satisfy the needs of automotive manufacturers all around the globe. Our range of specialist services and products enables us to keep pace with demand and ensure that whatever the ultimate use of our steel, its integrity will never be in doubt.

Corus - steels fit for life,  
designed to last, made to perform.

Corus supplies steels for critical components in the following areas:

**Engine**

**Drive Line & Transmission**

**Steering**

**Suspension**

**Braking & Safety Systems**

