

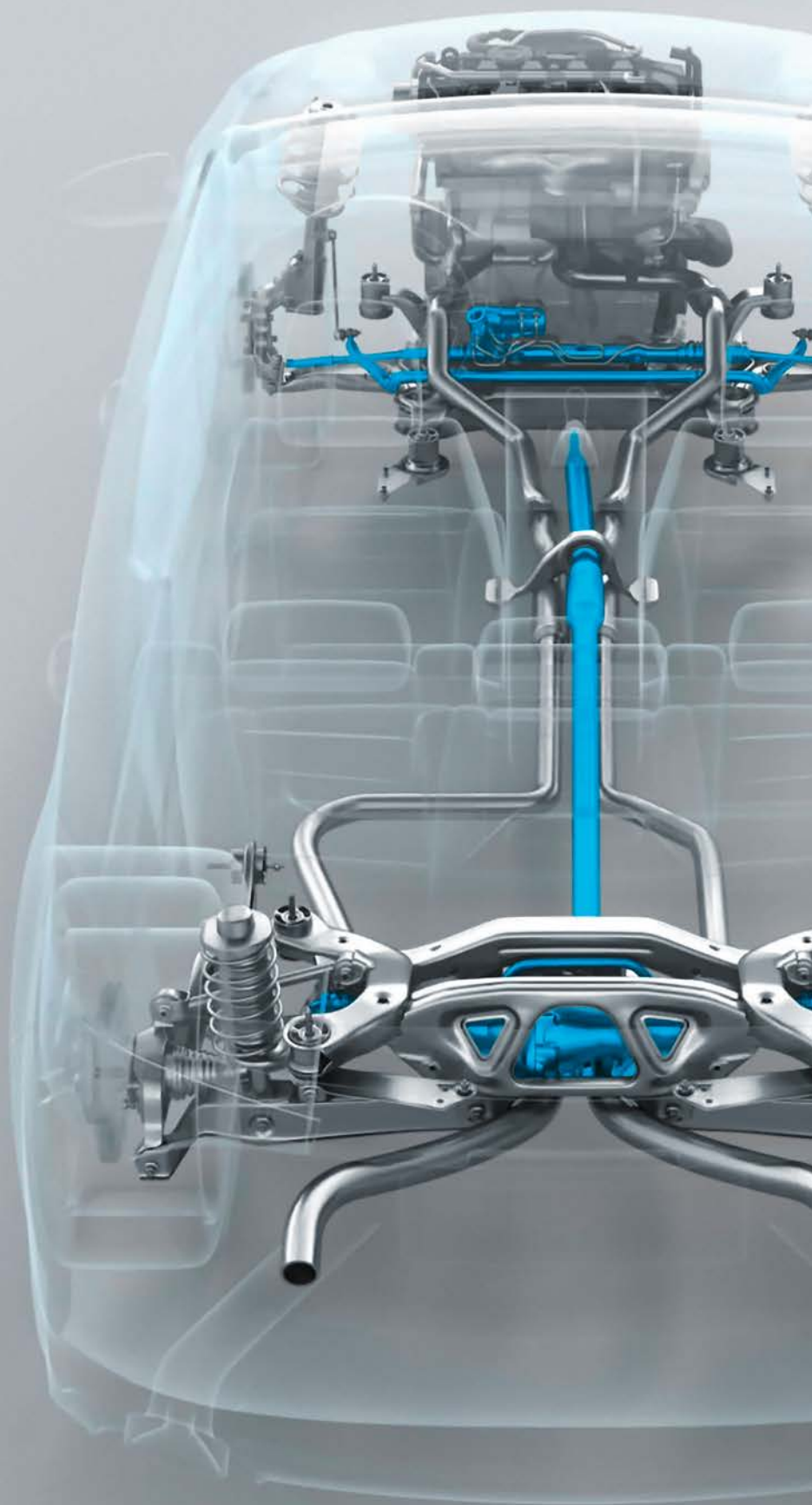
Steel


High-performance materials for precision steel tubes

Premium material for lightweight automotive manufacturing.



thyssenkrupp





High-strength precision steel tubes offer great potential for reducing costs and weight in automobile manufacturing. We offer the right materials, such as manganese-boron steels, which are ideal for drive train and chassis applications. Additionally, you can depend on our experts from the Technical Customer Service when it comes to materials and how to work them – for your lightweight structural designs.

All the best properties: everything that precision steel tubes need

With our materials for precision steel tubes – such as manganese-boron (MnB) steels, heat-treatable steels and even thermo-mechanically rolled steels for cold forming – you can face the ever more demanding vehicle weight requirements with confidence.



Manganese-boron steels delivered with excellent forming characteristics



High strength and homogeneity of mechanical properties after heat treatment



Complete material spectrum, comprehensive application consulting, custom solutions



New **segregation-optimized MnB steels with greater strength** and significantly enhanced ductility in the heat-treated state

Light, formable, hardenable, beyond compare

With weight reduction playing an ever greater role in the automotive industry, components such as stabilizers made of precision steel tubing are indispensable in suspensions. Manganese-boron steels are the first choice of vehicle designers in particular, as they meet the need for high strength combined with enhanced ductility.

Material with potential.

All our manganese-boron steels are delivered in a highly formable state and have an even surface. Our new segregation-optimized MnB steels are additionally characterized by even greater strength, improved ductility, tight analysis ranges, a homogeneous structure and low sulfur and phosphorus content.

Right in every way: our material spectrum.

Whether we are talking about standardized boron-alloy grades, special mill grades with reduced segregation potential, unalloyed structural steel or high-strength thermo-mechanically rolled steel for cold forming – all our materials meet the requirements of the automotive industry.



Product range for precision steel tubes

Standard

Hot strip, non-pickled / pickled / pickled-annealed
Strip steel, pickled / pickled-annealed

Product group	Steel grade	Standard
Manganese-boron steel	20MnB5	DIN EN 10083
	26MnB5	Special mill grade
	34MnB5	Special mill grade
	Others on request	
Unalloyed C-steel	C22	DIN EN 10083
	Special analyses	Special mill grade
Thermo-mechanically rolled steel for cold forming	perform® 315	DIN EN 10149-2
	perform® 340	Special mill grade
	perform® 355	DIN EN 10149-2
	perform® 380	Special mill grade
	perform® 420	DIN EN 10149-2

Cold-rolled, high-strength multiphase steels for precision tubes on request.

Because light should be easy: our service

Together with you, we not only develop material conceptions, but also give you access to the extensive know-how of our research and applications technology experts if you have any questions relating to processing. Our segregation-optimized materials offer the best basis for an efficient manufacturing process. Our Technical Customer Service will be pleased to answer all your questions.

Our know-how



Material conceptions



Process optimization



Processing support

Your benefits



Cost reduction



Weight optimization

Steel

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