





Take advantage of the properties of perform® steels from thyssenkrupp today to cut costs, resource consumption and environmental impact in the construction of special-purpose vehicles and trucks. perform® steels combine high strength with excellent cold forming characteristics, enabling weight reductions while offering you excellent perspectives for designing components with complex geometries. perform®: a sustainable product for strong performance.

Opposites attract – perform® proves it every day with widely-divergent properties that improve your processes. Its unique performance profile includes features such as:

- High strength paired with good toughness
- Lowest bending radii, good cutting and welding properties
- (a) Ideal for complex geometries
- Wide range of grades

perform® steels are ideal for complex component geometries
in truck manufacturing:

in special-vehicles construction:

Longitudinal and cross members

Lifting and working platforms

Axle structures

On-board and mobile cranes and their ooms

Dump truck side walls

Complete ease of processing

Our perform® steels meet the two most important criteria for application in trucks and special-vehicles: high toughness and superior formability. This combination is achieved by low sulfur contents, high cleanness levels and a particularly fine microstructure. Its low carbon equivlent makes perform® extremely weldable in all strength classes and therefore an ideal material for complex welded structures. perform®: a sustainable product for strong performance.

Forming with ease.

Thanks to their particularly fine-grain structure and high degree of cleanness, perform® steels deliver excellent forming characteristics. All grades are perfectly suitable for press-braking and bending at low radii. For extremely challenging forming characteristics, restricted bending radii as opposed to the standard can be agreed. The graph shows the significantly better press-brake radii for perform® 700 compared to standard requirements.

Visibly superior.

In special-purpose vehicle constructions, the good surface quality of perform® is an important advantage for the painting of exposed surfaces. perform® steels are also available in pickled and oiled conditions.

Bring the benefits to the road.

Our perform® steels meet the highest standards for stiffness and connection strength. Particularly in safety-relevant truck parts they offer superior crash performance and fatigue tolerance.



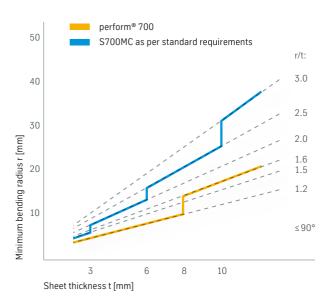
Product profile

- 1 Minimum yield strength up to 700 MPa coupled with excellent cold forming characteristics
- 2 Press-braking and bending with extremely low radii
- Good impact energy
- 4 Outstanding surface quality
- 5 Excellent welding characteristics (low CE/CET values)
- 6 Ideal for cutting, drilling and punching

				Delive	Delivery form	
				Hot-rolled strip	Cut-to-length plate	
Steel grade	Reference grade DIN EN 10149-2	Reference grade VDA 239-100	Material No.			
perform® 300	=	HR300LA	=	•	=	
perform® 315	S315MC	-	1.0972	•	-	
perform® 340	=	HR340LA	=	•	=	
perform® 355	S355MC	-	1.0976	•	-	
perform® 380	_	HR380LA	1.0978	•	_	
perform® 420	S420MC	HR420LA	1.0980	•	_	
perform® 460	S460MC	HR460LA	1.0982	•	=	
perform® 500	S500MC	HR500LA	1.0984	•	•	
perform® 550	S550MC	HR550LA	1.0986	•	•	
perform® 600	S600MC	HR600LA	1.8969	•	•	
perform® 650	S650MC	HR650LA	1.8976	•	•	
perform® 700	S700MC	HR700LA	1.8974	•	•	

Available

Bending radii: perform® 700 vs. S700MC



perform® 700 is significantly better suited to bending and press braking than to the comparative grade according to EN 10149-2.

Steel

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