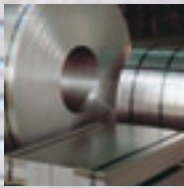


# Flachprodukte aus Stahl

## Flat products made of Steel

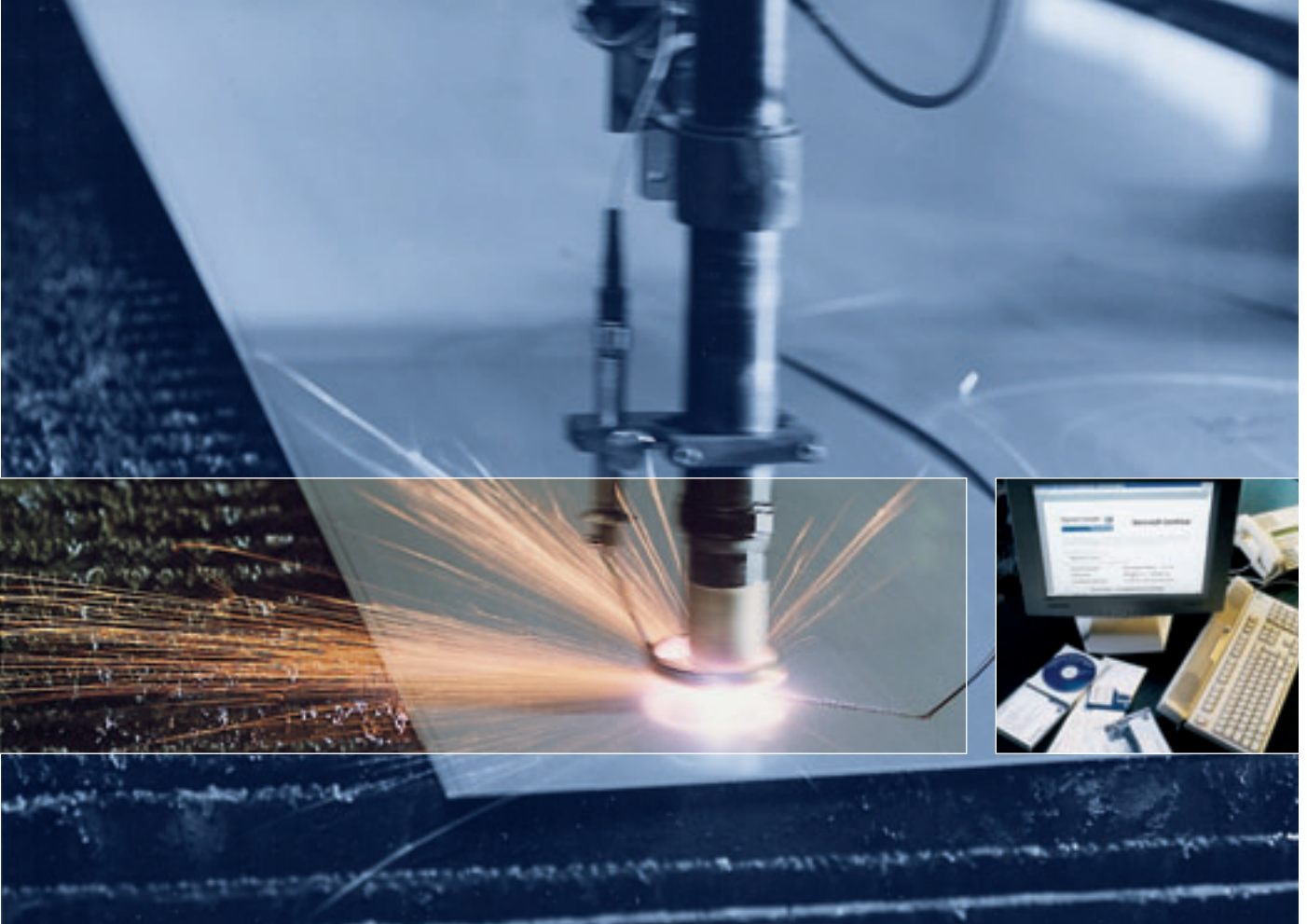
Lagerprogramm · Stock Program



ThyssenKrupp Schulte



ThyssenKrupp



### Weitere Informationsschriften

- Stähle für thermische Trennverfahren
- Verarbeiten von TBL2A
- Verarbeiten von XAR
- Verarbeiten von PAS/TQ
- Verarbeiten von N-A-XTRA/XABO
- Normenvergleich 9. Auflage, Schutzgebühr: € 25,-

### Computergestützte Informationen

- Werkstoffauswahlprogramm: Mit diesem Programm können Sie drei wichtige Anforderungs-Parameter vorgeben und erhalten dann die entsprechende Stahlqualität/-sorte. Für zahlreiche Stahlsorten kann ein Datenblatt mit allen Werkstoffeigenschaften ausgedruckt werden. Schutzgebühr: € 190,-.

Für nähere Informationen oder Bestellungen wenden Sie sich an Ihren zuständigen Außendienstmitarbeiter, die nächstliegende Niederlassung oder die Abteilung „Technischer Verkauf“,  
Johanniskirchstr. 71, 45329 Essen,  
Telefon 0201 8368-339, Telefax 0201 8368-300.

### Further Publications

- Thermal Cutting Steels
- Processing of TBL2A
- Processing of XAR
- Processing of PAS and TQ Steels
- Processing of N-A-XTRA and XABO Steels
- Standards' Comparison, 9th edition, Nominal charge: € 25.

### Computerized Information

- Steel info program: Input 3 key parameters and the program lists the type and grade of steel you need. For each grade it will print out a product specification sheet along with all the properties of the material. Nominal charge: € 190.

For more information or order placement contact your field sales-person, the nearest branch or the “Technischer Verkauf” department,  
Johanniskirchstr. 71, 45329 Essen, Germany,  
Phone +49 201 8368-339, Fax +49 201 8368-300.

<b>Warmgewalzte Bleche aus unlegierten Baustählen/Hot-rolled Sheets of Non-alloy Structural Steels</b>		
S235JR schwarz bzw. gebeizt und gefettet/black resp. pickled and oiled		4
S235JR Tränenbleche, schwarz/Bulb plates, black		5
S355J2+N schwarz/black		6
<b>Hochfeste vergütete Feinkornbaustähle/Quenched and Tempered High-Strength Steels</b>		
S690QL/S690QL1		7
S890QL/S960QL		7
S1100QL		8
<b>Druckbehälterstähle/Pressure Vessel Steels</b>		
P265GH		9
16Mo3		10
13CrMo4-5		11
10CrMo9-10		12
P275NL1		13
P355NH/P355NL1/P355NL2		13
P460NH/P460NL1/P460NL2		14
516 Grade70		15
387 Grade12CL2		16
387 Grade22CL2		17
<b>Vergütungsstähle/Heat Treatable Steels</b>		
C45		18
C45E		18
42CrMo4		18
<b>Einsatzstähle/Case Hardening Steels</b>		
16MnCr5		19
<b>Stähle zum Kaltumformen/Steels for Cold Forming</b>		
DD11		20
DC01		20
DC01+ZE		20
S250GD		21
DX51D		21
<b>Kaltpress-Stähle/Cold Formable Steels</b>		
S355MC		22
S460MC		22
S550MC		22
S700MC		22
S260NC		23
S355NC		23
<b>Verschleißwiderstandsfähige Sonderbaustähle/Wear Resistant Special Steels</b>		
300 HB (W.-Nr. 1.8704)		24
400 HB (W.-Nr. 1.8714)		24
450 HB (W.-Nr. 1.8722)		24
500 HB (W.-Nr. 1.8734)		24
<b>Stähle für Laserbearbeitung/Steels for Laser Processing</b>		
TS-ThermoCut 1		25
TS-ThermoCut 2		25
<b>Borlegierter Sonderbaustahl/Boron Alloyed Special Steel</b>		
27MnB5		26
<b>Manganhartstahl/Austenitic Manganese Steel</b>		
X120Mn12		27



# Warmgewalzte Bleche aus unlegierten Baustählen

## Hot-rolled Sheets of Non-alloy Structural Steels

Fixformate, Coils/Spaltband  
sowie Brammen auf Anfrage.  
Non-standard shapes, coils/  
slit strip and slabs on request.

Bei der Bestellung können folgende zusätzliche Anforderungen vereinbart werden:  
The following additional requirements can be arranged upon agreement:

- Eignung des Stahls zum Feuerverzinken oder Emaillieren
- Eigenschaften in Dickenrichtung entsprechend EN 10164 Z15, Z25, Z35
- Suitability of steel for galvanizing or enameling
- Mechanical properties in through the thickness direction (TTT) according to EN 10164 Z15, Z25, Z35

### S235JR (W.-Nr. 1.0038)

Tränenbleche schwarz (auf Wunsch gebeizt und geölt) Bulb plates black (upon request pickled and oiled)	Breite × Länge Width × Length	Dicke/Thickness								in mm
		3	4	5	6	8	10	12	15	20
	<b>1000 × 2000</b>	●	●	●	●	●	●	●	●	●
	<b>1250 × 2500</b>	●	●	●	●	●	●	●	●	●
	<b>1500 × 3000</b>	●	●	●	●	●	●	●	●	●
	<b>2000 × 8000</b>	●	●	●	●	●	●			

### Unser Service für Sie!/Our service at your hand!

#### Auf Wunsch liefern wir Zuschnitte

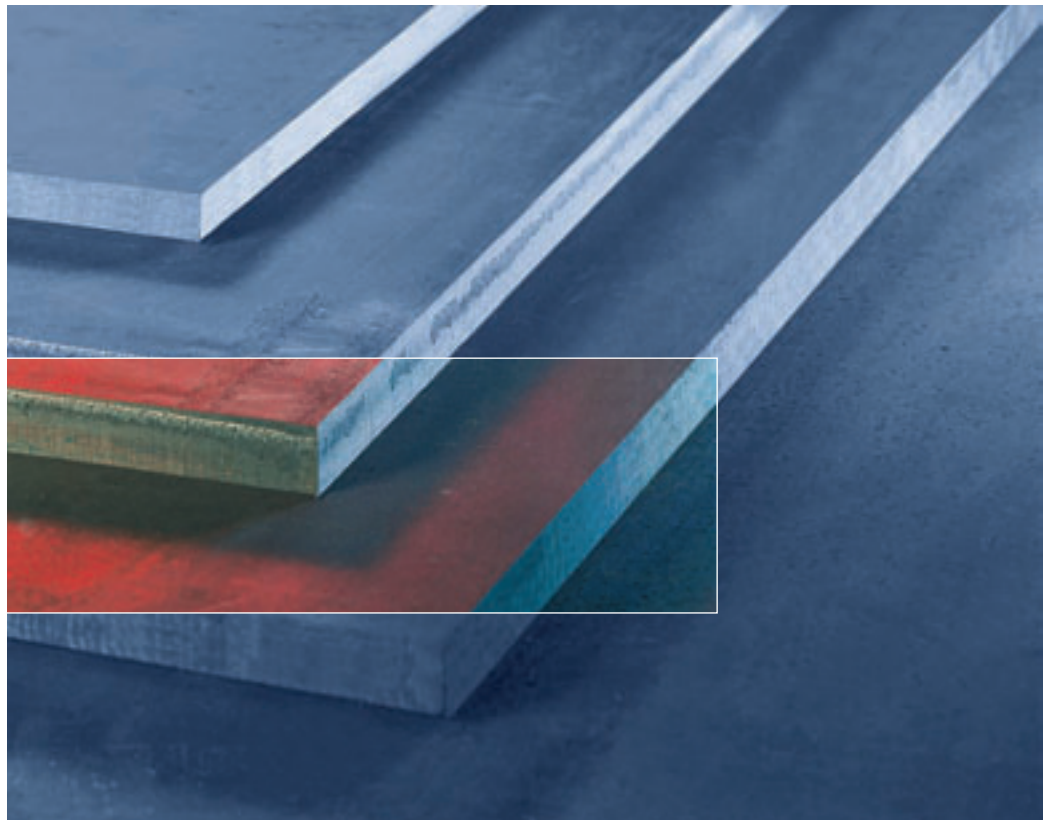
- gerichtet
- gegläht
- gestrahlt
- grundiert
- gehobelt
- gefräst
- gebohrt

#### On request we supply blanks which are

- straightened
- annealed
- blast-cleaned
- primed
- planed
- drilled
- bored

### Auf Anfrage/Upon request

S235J2+N, S235JRC, S235J2C+N,  
sowie weitere Güten/and other qualities.



# Warmgewalzte Bleche aus unlegierten Baustählen

## Hot-rolled Sheets of Non-alloy Structural Steels

Sie benötigen eine andere  
Qualität oder Abmessung?  
Sprechen Sie uns an.  
Need a different grade or size?  
Just ask us.

EN 10025-2  
EN 10029/10051

Technische Lieferbedingungen/Technical terms of delivery

Maße und zulässige Abweichungen/Measurements and permissible deviations

### S355J2+N (W.-Nr. 1.0577)

schwarz  
black

Breite × Länge Width × Length	Dicke/Thickness																in mm
	5	6	8	10	12	15	16	18	20	22	25	30	35	40	45	50	
2000 × 6000			●	●	●	●		●	●		●	●	●	●	●	●	
2000 × 8000		●	●									●	●	●	●	●	
2000 × 10000				●	●	●			●		●						
2000 × 12000			●	●	●	●		●	●	●	●	●	●	●	●	●	
2200 × 12000																●	
2500 × 6000			●	●	●	●		●	●		●	●	●	●	●	●	
2500 × 8000																●	
2500 × 10000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2500 × 12000			●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2700 × 12000																●	
3000 × 6000			●	●	●	●		●	●		●	●	●	●	●	●	
3000 × 12000		●	●	●	●	●		●	●		●	●	●	●	●	●	
			55	60	65	70	80	85	90	100	110	120	130	140	150		
2000 × 4000–10400												●					
2000 × 5000–12000										●							
2000 × 6000–11300											●						
2000 × 6000–12000			●	●	●	●	●	●	●								
2000 × 8000									●							●	
2200 × 6000– 9400												●					
2200 × 6000–10300											●						
2200 × 6000–11300										●							
2200 × 6000–12000			●		●	●	●		●								
2500 × 6000																●	
2500 × 6000– 8300												●					
2500 × 6000– 9000											●						
2500 × 6000–10000										●							
2500 × 6000–12000			●	●	●	●	●	●	●								
2500 × 7000													●	●			
2700 × 5400– 9200										●							
2700 × 5800– 8400											●						
2700 × 6000– 7700												●					
2700 × 6000–12000			●		●	●	●		●								
3000 × 5000– 7500											●						
3000 × 5600– 8300										●							
3000 × 6000–12000			●	●	●	●	●	●	●								
3000 × 6000												●	●	●			



# Hochfeste vergütete Feinkornbaustähle

## Quenched and Tempered High-Strength Steels

gemäß Werkstoffblatt  
acc. to Materials Data Sheet

Technische Lieferbedingungen/Technical terms of delivery  
Maße und zulässige Abweichungen/Measurements and permissible deviations

### S1100QL (W.-Nr. 1.8942)

Breite × Länge Width × Length	Dicke/Thickness										in mm
	4	5	6	7	8	9	10	12	15	20	
2000 × 10000	●	●	●	●	●	●	●	●	●	●	●
2000 × 12000	●	●	●	●	●	●	●	●	●	●	●
2500 × 10000	●	●	●	●	●	●	●	●	●	●	●
2500 × 12000	●	●	●	●	●	●	●	●	●	●	●
3000 × 10000			●	●	●	●	●	●	●	●	●
3000 × 12000			●	●	●	●	●	●	●	●	●



# Druckbehälterstähle Pressure Vessel Steels

Druckbehälterstähle werden im HSLA (High Strength Low Alloy) Bereich entweder nach ihrer gewährleisteten  $R_{eH}$ -Streckgrenze im Bereich 355–460 N/mm<sup>2</sup> oder mit gewährleisteter chemischer Zusammensetzung, insbesondere mit Cr-Mo- oder Ni-Legierung, geliefert. Durch aufwändige Maßnahmen innerhalb der Sekundärmetallurgie werden höchste oxidische und sulfidische Reinheitsgrade erzielt. Die Walzung der Bleche erfolgt auf modernsten Quartogerüsten, die eine optimale Verformung von Bramme zu Blech ermöglichen. Das führt zu Blechen mit einer guten Isotropie. Für diese Stähle gilt unter besonderer Berücksichtigung ihres Einsatzzweckes ein erheblich höherer Prüfumfang als z. B. bei Baustählen.

HSLA (high-strength low-alloy) pressure vessel steels are supplied with either guaranteed yield strength  $R_{eH}$  in the 355–460 N/mm<sup>2</sup> range or with guaranteed chemical composition, in particular with regard to Cr-Mo or Ni content. Considerable efforts are undertaken in the area of secondary metallurgy to remove oxides and sulfides for maximum cleanliness. Rolling is carried out on state-of-the-art four-high mills which ensure optimum transformation from slab to plate and good isotropy. Given the intended use of these steels, they are subject to far more extensive testing than e. g. structural steels.

<b>EN 10028-2</b>	Technische Lieferbedingungen/Technical terms of delivery
<b>EN 10029/10051</b>	Maße und zulässige Abweichungen/Measurements and permissible deviations

## P265GH (W.-Nr. 1.0425)

Breite × Länge Width × Length	3	4	5	6	8	Dicke/Thickness						in mm
						10	12	15	16	20	25	30
2000 × 6000	●	●	●	●								
2000 × 8000	●	●	●	●	●	●	●	●		●	●	●
2000 × 12000					●	●	●	●		●	●	●
2500 × 10000					●	●	●	●	●	●	●	●
2500 × 12000					●	●	●	●		●	●	●
3000 × 12000							●	●		●	●	●
	35	40	45	50	60	70	80	90	100			
2000 × 6000						●	●	●	●			
2000 × 8000		●		●								
2000 × 12000		●		●	●							
2500 × 8000				●								
2500 × 10000		●		●								
2500 × 12000	●	●	●									
3000 × 12000		●										

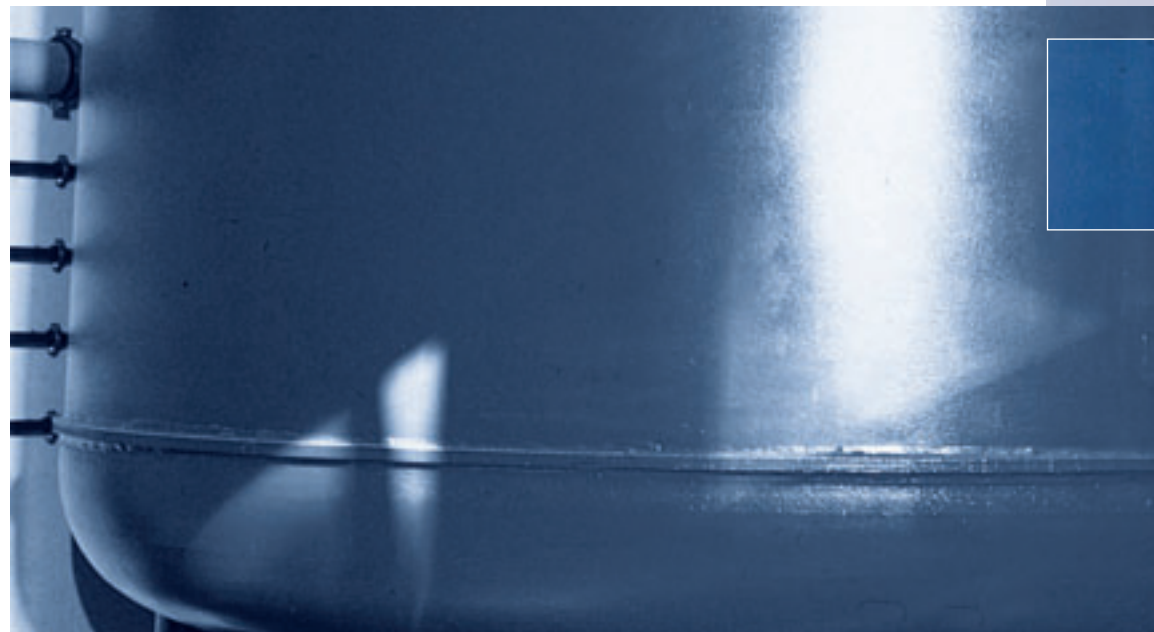


# Druckbehälterstähle Pressure Vessel Steels

EN 10028-2 Technische Lieferbedingungen/Technical terms of delivery  
 EN 10029/10051 Maße und zulässige Abweichungen/Measurements and permissible deviations

## 16Mo3 (W.-Nr. 1.5415)

Breite × Länge Width × Length	Dicke/Thickness													in mm	
	3	4	5	6	8	10	12	14	15	16	18	20	22		25
1250 × 2500	●	●	●	●											
1500 × 3000	●	●	●	●	●	●									
2000 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 8000			●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 10000			●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 12000			●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 6000			●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 8000			●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 10000			●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 12000			●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 6000			●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 8000			●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 10000			●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 12000			●	●	●	●	●	●	●	●	●	●	●	●	●
	35	40	45	50	55	60	65	70	80	90	100	120			
2000 × 6000	●	●	●	●	●	●	●	●	●	●	●	●			
2000 × 8000	●	●	●	●	●	●	●	●	●	●	●	●			
2000 × 10000	●	●	●	●	●	●	●	●	●	●	●	●			
2000 × 12000	●	●	●	●	●	●	●	●	●	●	●	●			
2500 × 6000	●	●	●	●	●	●	●	●	●	●	●	●			
2500 × 8000	●	●	●	●	●	●	●	●	●	●	●	●			
2500 × 10000	●	●	●	●	●	●	●	●	●	●	●	●			
2500 × 12000	●	●	●	●	●	●	●	●	●	●	●	●			
3000 × 6000	●	●	●	●	●	●	●	●	●	●	●	●			
3000 × 8000	●	●	●	●	●	●	●	●	●	●	●	●			
3000 × 10000	●	●	●	●	●	●	●	●	●	●	●	●			
3000 × 12000	●	●	●	●	●	●	●	●	●	●	●	●			



# Druckbehälterstähle Pressure Vessel Steels

EN 10028-2 Technische Lieferbedingungen/Technical terms of delivery  
EN 10029/10051 Maße und zulässige Abweichungen/Measurements and permissible deviations

## 13CrMo4-5 (W.-Nr. 1.7335)

Breite × Länge Width × Length	Dicke/Thickness														in mm	
	3	4	5	6	8	10	12	15	16	18	20	25	30	35		40
1500 × 3000	●	●														
2000 × 6000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 8000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 10000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 12000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 6000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 8000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 10000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 12000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 6000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 8000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 10000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 12000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
		45	50	55	60	65	70	80	90	100	120					
2000 × 6000	●	●	●	●	●	●	●	●	●	●	●					
2000 × 8000	●	●	●	●	●	●	●	●	●	●	●					
2000 × 10000	●	●	●	●	●	●	●	●	●	●	●					
2000 × 12000	●	●	●	●	●	●	●	●	●	●	●					
2500 × 6000	●	●	●	●	●	●	●	●	●	●	●	●				
2500 × 8000	●	●	●	●	●	●	●	●	●	●	●	●				
2500 × 10000	●	●	●	●	●	●	●	●	●	●	●	●				
2500 × 12000	●	●	●	●	●	●	●	●	●	●	●	●				
3000 × 6000	●	●	●	●	●	●	●	●	●	●	●	●				
3000 × 8000	●	●	●	●	●	●	●	●	●	●	●	●				
3000 × 10000	●	●	●	●	●	●	●	●	●	●	●	●				
3000 × 12000	●	●	●	●	●	●	●	●	●	●	●	●				



# Druckbehälterstähle Pressure Vessel Steels

<b>EN 10028-2</b>	Technische Lieferbedingungen/Technical terms of delivery
<b>EN 10029/10051</b>	Maße und zulässige Abweichungen/Measurements and permissible deviations

## 10CrMo9-10 (W.-Nr. 1.7380)

Breite × Länge Width × Length	Dicke/Thickness														in mm	
	4	5	6	8	10	12	15	16	18	20	25	30	35	40		45
2000 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2000 × 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2000 × 10000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2000 × 12000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2500 × 6000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2500 × 8000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2500 × 10000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2500 × 12000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	
3000 × 6000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	
3000 × 8000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	
3000 × 10000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	
3000 × 12000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	50	55	60	65	70	80	90	100	120							
2000 × 6000	●	●	●	●	●	●	●	●	●							
2000 × 8000	●	●	●	●	●	●	●	●	●							
2000 × 10000	●	●	●	●	●	●	●	●	●							
2000 × 12000	●	●	●	●	●	●	●	●	●							
2500 × 6000	●	●	●	●	●	●	●	●	●							
2500 × 8000	●	●	●	●	●	●	●	●	●							
2500 × 10000	●	●	●	●	●	●	●	●	●							
2500 × 12000	●	●	●	●	●	●	●	●	●							
3000 × 6000	●	●	●													
3000 × 8000	●	●	●													
3000 × 10000	●	●	●													
3000 × 12000	●	●	●													



# Druckbehälterstähle Pressure Vessel Steels

**EN 10028-3** Technische Lieferbedingungen/Technical terms of delivery  
**EN 10029/10051** Maße und zulässige Abweichungen/Measurements and permissible deviations

## P275NL1 (W.-Nr. 1.0488)

Breite × Länge Width × Length	10	12	15	20	25	Dicke/Thickness						in mm
						30	40	50	60	80	90	100
<b>2000 × 5000</b>												●
<b>2000 × 6000</b>	●	●	●	●	●	●	●	●	●	●	●	

## P355NH (W.-Nr. 1.0565)/P355NL1 (W.-Nr. 1.0566)/P355NL2 (W.-Nr. 1.1106)

Breite × Länge Width × Length	5	6	8	10	12	15	16	Dicke/Thickness								in mm
								18	20	22	25	30	35	40	45	50
<b>2000 × 6000</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>2000 × 8000</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>2000 × 10000</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>2000 × 12000</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>2500 × 6000</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>2500 × 8000</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>2500 × 10000</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>2500 × 12000</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>3000 × 6000</b>			●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>3000 × 8000</b>			●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>3000 × 10000</b>			●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>3000 × 12000</b>			●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>2000 × 6000</b>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>2000 × 8000</b>		●	●	●	●	●	●	●	●							
<b>2000 × 10000</b>		●	●	●	●	●	●	●	●							
<b>2000 × 12000</b>		●	●	●	●	●	●	●	●							
<b>2500 × 6000</b>		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>2500 × 8000</b>		●	●	●	●	●	●	●	●							
<b>2500 × 10000</b>		●	●	●	●	●	●	●	●							
<b>2500 × 12000</b>		●	●	●	●	●	●	●	●							
<b>3000 × 6000</b>		●	●													
<b>3000 × 8000</b>		●	●													
<b>3000 × 10000</b>		●	●													
<b>3000 × 12000</b>		●	●													



# Druckbehälterstähle Pressure Vessel Steels

**EN 10028-3** Technische Lieferbedingungen/Technical terms of delivery  
**EN 10029/10051** Maße und zulässige Abweichungen/Measurements and permissible deviations

**P460NH (W.-Nr. 1.8935)/P460NL1 (W.-Nr. 1.8915)/P460NL2 (W.-Nr. 1.8918)**

Breite × Länge Width × Length	Dicke/Thickness															in mm
	5	6	8	10	12	15	16	18	20	25	30	35	40	45	50	
2000 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2000 × 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2000 × 10000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2000 × 12000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2500 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2500 × 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2500 × 10000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2500 × 12000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
3000 × 6000			●	●	●	●	●	●	●	●	●	●	●	●	●	
3000 × 8000			●	●	●	●	●	●	●	●	●	●	●	●	●	
3000 × 10000			●	●	●	●	●	●	●	●	●	●	●	●	●	
3000 × 12000			●	●	●	●	●	●	●	●	●	●	●	●	●	
	55	60	65	70	80	90	100	120	130	140	150	160	170	180	200	
2000 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2000 × 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2000 × 10000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2000 × 12000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2500 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2500 × 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2500 × 10000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2500 × 12000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
3000 × 6000	●	●														
3000 × 8000	●	●														
3000 × 10000	●	●														
3000 × 12000	●	●														



# Druckbehälterstähle Pressure Vessel Steels

**ASTM A516/ASME SA516** Technische Lieferbedingungen/Technical terms of delivery  
**ASTM A20/ASME SA20** Maße und zulässige Abweichungen/Measurements and permissible deviations

## 516 Grade70

Breite × Länge Width × Length	Dicke/Thickness															in mm
	5	6	8	10	12	15	16	18	20	22	25	30	35	40	45	
2000 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 10000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 12000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 10000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 12000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 6000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 8000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 10000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 12000			●	●	●	●	●	●	●	●	●	●	●	●	●	●
		55	60	65	70	80	90	100	120	130	140	150	160	170	180	200
2000 × 6000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 8000		●	●	●	●	●	●	●	●							
2000 × 10000		●	●	●	●	●	●	●	●							
2000 × 12000		●	●	●	●	●	●	●	●							
2500 × 6000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 8000		●	●	●	●	●	●	●	●							
2500 × 10000		●	●	●	●	●	●	●	●							
2500 × 12000		●	●	●	●	●	●	●	●							
3000 × 6000		●	●													
3000 × 8000		●	●													
3000 × 10000		●	●													
3000 × 12000		●	●													



# Druckbehälterstähle Pressure Vessel Steels

**ASTM A387/ASME SA387** Technische Lieferbedingungen/Technical terms of delivery  
**ASTM A20/ASME SA20** Maße und zulässige Abweichungen/Measurements and permissible deviations

## 387 Grade12CL2

Breite × Länge Width × Length	Dicke/Thickness														in mm
	5	6	8	10	12	15	16	18	20	25	30	35	40	45	
2000 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 10000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 12000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 10000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 12000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 10000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 12000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	55	60	65	70	80	90	100	120							
2000 × 6000	●	●	●	●	●	●	●	●							
2000 × 8000	●	●	●	●	●	●	●	●							
2000 × 10000	●	●	●	●	●	●	●	●							
2000 × 12000	●	●	●	●	●	●	●	●							
2500 × 6000	●	●	●	●	●	●	●	●							
2500 × 8000	●	●	●	●	●	●	●	●							
2500 × 10000	●	●	●	●	●	●	●	●							
2500 × 12000	●	●	●	●	●	●	●	●							
3000 × 6000	●	●													
3000 × 8000	●	●													
3000 × 10000	●	●													
3000 × 12000	●	●													



# Druckbehälterstähle Pressure Vessel Steels

**ASTM A387/ASME SA387** Technische Lieferbedingungen/Technical terms of delivery  
**ASTM A20/ASME SA20** Maße und zulässige Abweichungen/Measurements and permissible deviations

## 387 Grade22CL2

Breite × Länge Width × Length	Dicke/Thickness														in mm	
	4	5	6	8	10	12	15	16	18	20	25	30	35	40	45	▶
2000 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	▶
2000 × 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	▶
2000 × 10000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	▶
2000 × 12000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	▶
2500 × 6000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	▶
2500 × 8000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	▶
2500 × 10000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	▶
2500 × 12000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	▶
3000 × 6000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	▶
3000 × 8000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	▶
3000 × 10000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	▶
3000 × 12000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	▶
◀		50	55	60	65	70	80	90	100	120						
2000 × 6000	●	●	●	●	●	●	●	●	●	●						
2000 × 8000	●	●	●	●	●	●	●	●	●	●						
2000 × 10000	●	●	●	●	●	●	●	●	●	●						
2000 × 12000	●	●	●	●	●	●	●	●	●	●						
2500 × 6000	●	●	●	●	●	●	●	●	●	●						
2500 × 8000	●	●	●	●	●	●	●	●	●	●						
2500 × 10000	●	●	●	●	●	●	●	●	●	●						
2500 × 12000	●	●	●	●	●	●	●	●	●	●						
3000 × 6000	●	●	●													
3000 × 8000	●	●	●													
3000 × 10000	●	●	●													
3000 × 12000	●	●	●													



# Vergütungsstähle

## Heat Treatable Steels

Vergütungsstähle sind unlegierte und legierte Edelstähle mit etwa 0,20–0,70% Kohlenstoffgehalt, die durch Vergüten hohe mechanische Eigenschaften bei ausreichenden Zähigkeitseigenschaften erhalten. Durch gezielte Wärmebehandlung (Härten und Anlassen) können eine Vielzahl von geforderten Festigkeitseigenschaften erreicht werden. Legierte Vergütungsstähle eignen sich zudem hervorragend für alle gängigen Nitrierverfahren, um die Oberflächenhärte zu steigern. Wegen der erzielbaren Oberflächenhärte und der hohen Zähigkeit werden die Stähle vorzugsweise im Automobil-, Fahrzeug- und Maschinenbau z. B. als Achsschenkel, Pleuelstangen, Zahnräder, Ritzel usw. eingesetzt.

Heat treatable steels are non-alloy and alloy special steels with a carbon content of around 0.20–0.70% which have good mechanical properties while retaining sufficient toughness as a result of quenching and tempering. A wide variety of required strength properties can be achieved through targeted heat treatment (hardening and tempering). Alloyed heat treatable steels are also extremely well-suited for all typical nitriding processes used to increase surface hardness. As a result of the surface hardness that can be achieved and the high levels of toughness, the steels are primarily used in automotive, vehicle and machinery manufacture, e. g. as steering knuckles, connecting rods, gear wheels, pinions, etc.

<b>EN 10083-2</b>	Technische Lieferbedingungen/Technical terms of delivery
<b>EN 10029/10051</b>	Maße und zulässige Abweichungen/Measurements and permissible deviations

### C45 (W.-Nr. 1.0503)

Breite × Länge Width × Length	Dicke/Thickness													in mm	
	20	25	30	35	40	45	50	55	60	70	80	90	100		110
2000 × 6000														●	●
2000 × 10000														●	●
2000 × 12000	●	●	●	●	●	●	●		●						
2500 × 6000														●	●
2500 × 10000									●		●				
2500 × 12000									●		●				

### C45E (W.-Nr. 1.1191)

Breite × Länge Width × Length	Dicke/Thickness													in mm	
	20	25	30	35	40	45	50	55	60	70	80	90	100		110
2000 × 6000														●	●
2000 × 10000														●	●
2000 × 12000	●	●	●	●	●	●	●		●						
2500 × 6000														●	●
2500 × 10000									●		●				
2500 × 12000									●		●				

<b>EN 10083-3</b>	Technische Lieferbedingungen/Technical terms of delivery
<b>EN 10029/10051</b>	Maße und zulässige Abweichungen/Measurements and permissible deviations

### 42CrMo4 (W.-Nr. 1.7225)

Breite × Länge Width × Length	Dicke/Thickness													in mm	
	5	6	8	10	12	15	18	20	25	30	35	40	45		50
2000 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	60	65	70	80	90	100	120								
2000 × 6000	●	●	●	●	●	●	●								
2000 × 8000	●	●	●	●	●	●	●								
2500 × 6000	●	●	●	●	●	●	●								

# Einsatzstähle

## Case Hardening Steels

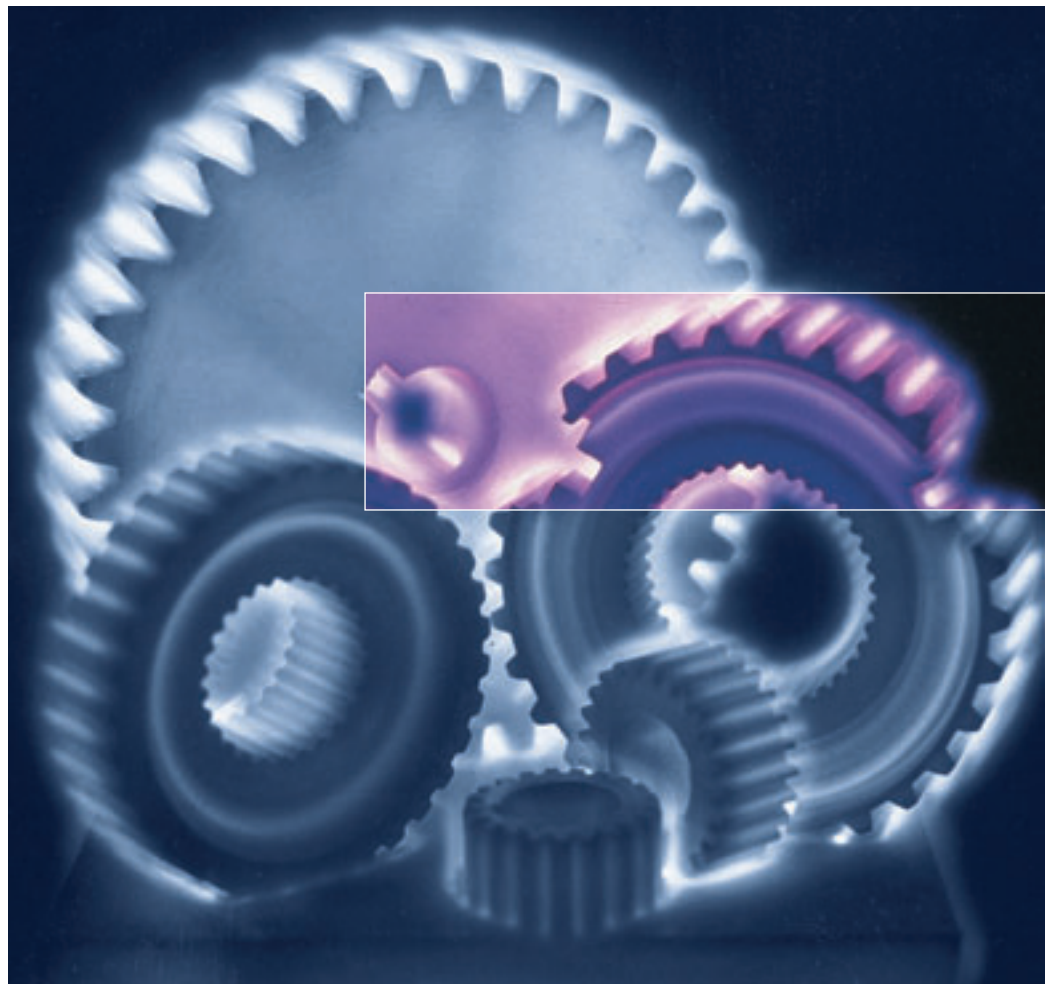
Einsatzstähle sind Stähle mit einem relativ geringen Kohlenstoffgehalt (<0,25%), die an der Oberfläche mit unterschiedlichen Verfahren aufgekohlt und anschließend gehärtet werden. Dadurch ergeben sich im oberflächennahen Bereich hohe Härtewerte mit guten Verschleißwiderständen und guten Zähigkeitseigenschaften im Kern. Diese hervorragenden Eigenschaften werden überwiegend auf den Gebieten des Maschinen- und Formenbaus genutzt.

Case hardening steels are steels with a relatively low carbon content (<0.25%) on which the surface is carburized by means of various processes and then hardened. This results in high hardness values in the surface area with good wear resistance and good toughness at the core. These excellent properties are predominantly used in machinery manufacture and die making.

<b>EN 10084</b>	Technische Lieferbedingungen/Technical terms of delivery
<b>EN 10029/10051</b>	Maße und zulässige Abweichungen/Measurements and permissible deviations

### 16MnCr5 (W.-Nr. 1.7131)

Breite × Länge Width × Length	Dicke/Thickness														in mm	
	5	6	8	10	12	15	18	20	25	30	35	40	45	50	55	
2000 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	▶
2000 × 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2500 × 6000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	60	65	70	80	90	100	120	130	140							▶
2000 × 6000	●	●	●	●	●	●	●	●	●							
2000 × 8000	●	●	●	●	●	●	●	●	●							
2500 × 6000	●	●	●	●	●	●	●	●	●							



# Stähle zum Kaltumformen

## Steels for Cold Forming

Unsere Bleche werden mit **Bescheinigungen über Materialprüfungen nach DIN EN 10204/ISO 10474** geliefert.  
Auf Wunsch liefern wir das Material

- US-geprüft nach EN,
- mit Fremdadnahme.

Stähle zum Kaltumformen werden in den meisten Fällen als kaltgewalzte Feibleche – in Ausnahmen auch als warmgewalzte Bandbleche – geliefert und zeichnen sich je nach Werkstoff und Beschichtungsart durch hervorragende Umformeigenschaften sowie teilweise gute Korrosionseigenschaften aus. Sie werden als Vormaterial für die verschiedensten Oberflächenbehandlungen eingesetzt. Schwerpunktbereiche sind die Emallierindustrie (Heiz-, Koch- und Haushaltsgeräte, Badewannen, Waschmaschinen etc.), Bauindustrie (Rohre, Profile), Hausgeräteindustrie und Automobilindustrie.

Steels for cold forming are mainly supplied as cold-rolled sheet – and in exceptional cases also as hot-rolled sheet – and are characterized by outstanding forming properties and in some cases good corrosion properties, depending on the material and type of coating. They are used as the starting material for a wide variety of surface treatments. Key sectors are the enameling (heating, cooking and household appliances, bath tubs, washing machines, etc.), construction (tubes/pipes, sections), household appliance and automotive industries.

<b>EN 10111</b>	Technische Lieferbedingungen/Technical terms of delivery
<b>EN 10051</b>	Maße und zulässige Abweichungen/Measurements and permissible deviations

### DD11 (W.-Nr. 1.0332)

ungefettet not oiled	Breite × Länge Width × Length	Dicke/Thickness				in mm
		1,50	2,00	2,50	2,99	
	1000 × 2000	●	●	●	●	
	1250 × 2500	●	●		●	
	1500 × 3000		●		●	

gefettet oiled	Breite × Länge Width × Length	Dicke/Thickness								in mm	
		1,50	2,00	2,50	2,99	4,00	5,00	6,00	8,00		10,00
	1000 × 2000	●	●	●	●	●	●	●			
	1250 × 2500	●	●	●	●	●	●	●	●	●	●
	1500 × 3000		●	●	●	●	●	●	●	●	●

<b>EN 10130</b>	Technische Lieferbedingungen/Technical terms of delivery
<b>EN 10131</b>	Maße und zulässige Abweichungen/Measurements and permissible deviations

### DC01 (W.-Nr. 1.0330)

ungefettet not oiled	Breite × Länge Width × Length	Dicke/Thickness					in mm
		1,00	1,25	1,50	2,00	2,50	
	1000 × 2000	●	●	●	●	●	●
	1250 × 2500	●		●	●	●	●
	1500 × 3000	●		●	●	●	●

gefettet oiled	Breite × Länge Width × Length	Dicke/Thickness								in mm
		0,50	0,75	0,88	1,00	1,25	1,50	2,00	2,50	
	1000 × 2000	●	●	●	●	●	●	●	●	●
	1250 × 2500				●	●	●	●	●	●
	1500 × 3000				●	●	●	●	●	●

<b>EN 10152</b>	Technische Lieferbedingungen/Technical terms of delivery
<b>EN 10131</b>	Maße und zulässige Abweichungen/Measurements and permissible deviations

### DC01+ZE (W.-Nr. 1.0330)

elektrolytisch verzinkt electrolytically zinc coated	Breite × Länge Width × Length	Dicke/Thickness						in mm	
		0,75	0,88	1,00	1,25	1,50	2,00		2,50
	1000 × 2000	●	●	●	●	●	●	●	●
	1250 × 2500	●	●	●	●	●	●	●	●
	1500 × 3000			●		●	●	●	●

# Stähle zum Kaltumformen

## Steels for Cold Forming

Our sheet is supplied with **EN 10204/ISO 10474 material inspection certificates**.  
 On request, we can supply material

- US-tested to EN,
- with third-party acceptance testing.

**EN 10326** Technische Lieferbedingungen/Technical terms of delivery  
**EN 10143** Maße und zulässige Abweichungen/Measurements and permissible deviations

**S250GD (W.-Nr. 1.0242)**

kontinuierlich feuerverzinkt  
 continuously hot-dip zinc coated

Breite × Länge Width × Length	Dicke/Thickness						in mm
	1,00	1,25	1,50	2,00	2,50	2,99	
<b>1000 × 2000</b>	●	●	●	●	●	●	
<b>1250 × 2500</b>	●	●	●	●	●	●	
<b>1500 × 3000</b>	●	●	●	●		●	

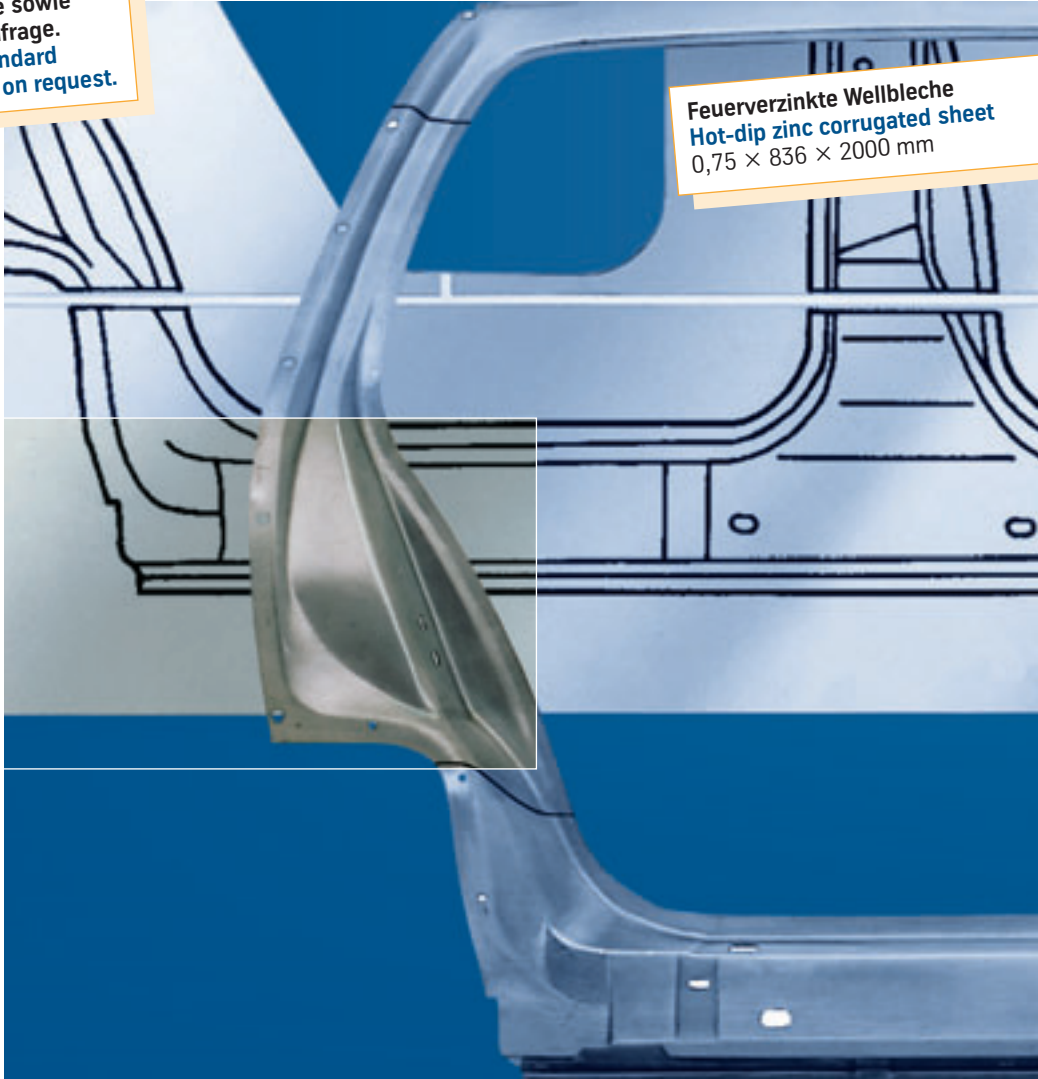
**EN 10327** Technische Lieferbedingungen/Technical terms of delivery  
**EN 10143** Maße und zulässige Abweichungen/Measurements and permissible deviations

**DX51D (W.-Nr. 1.0266)**

kontinuierlich feuerverzinkt  
 continuously hot-dip zinc coated

Breite × Länge Width × Length	Dicke/Thickness											in mm
	0,50	0,63	0,75	0,88	1,00	1,25	1,50	2,00	2,50	2,99	4,00	
<b>1000 × 2000</b>	●	●	●	●	●	●	●	●	●	●	●	
<b>1250 × 2500</b>			●	●	●	●	●	●	●	●	●	
<b>1500 × 3000</b>			●	●	●	●	●	●	●	●	●	

Andere Formate, Fixformate sowie  
 Coils und Spaltband auf Anfrage.  
 Other dimensions, non-standard  
 shapes, coils and slit strip on request.



Feuerverzinkte Wellbleche  
 Hot-dip zinc corrugated sheet  
 0,75 × 836 × 2000 mm

# Kaltpress-Stähle

## Cold Formable Steels

Legierte Feinkornbaustähle mit erhöhter Streckgrenze, die speziell für die Kaltumformung entwickelt wurden, verfügen aufgrund des geringen Kohlenstoff-, Phosphor- und Schwefelgehaltes auch über eine hervorragende Schweißbeignung. Bei NC-Stählen ist ein Warmrichten und Warmverpressen möglich. Die Bleche werden in der Regel für stark verformte Teile eingesetzt z. B. Längs- und Querträger sowie Motor- und Getriebeträger im Fahrzeugbau.

These high strength low alloyed steels have been systematically developed for cold forming purposes. Their excellent weldability is caused by low contents of carbon, phosphorous and sulfur. The plates are normally used for strong formed parts. NC steels can be hot straightened and hot formed. Applications are for example longitudinal and cross-members, motor and gear mountings in the automotive industry.

<b>EN 10149-2</b>	Technische Lieferbedingungen/Technical terms of delivery
<b>EN 10029/10051</b>	Maße und zulässige Abweichungen/Measurements and permissible deviations

### S355MC (W.-Nr. 1.0976) · früher/formerly QStE 380 TM (W.-Nr. 1.0978)

Walzzustand oder  
gebeizt und geölt/  
as rolled or pickled and oiled

Breite × Länge Width × Length	3	4	5	6	Dicke/Thickness		10	12	15	20	in mm
<b>1000 × 2000</b>	●	●	●	●	8	8	●	●	●	●	●
<b>1250 × 2500</b>	●	●	●	●	8	8	●	●	●	●	●
<b>1500 × 3000</b>	●	●	●	●	8	8	●	●	●	●	●
<b>2000 × 12000</b>	●	●	●	●	8	8	●	●	●	●	●
<b>2500 × 10000</b>					8	8	●	●	●	●	●
<b>3000 × 12000</b>					8	8	●	●	●	●	●

gebeizt und geölt/  
pickled and oiled

Breite × Länge Width × Length	3	4	5	6	Dicke/Thickness		10	12	15	20	in mm
<b>1000 × 2000</b>	●	●	●	●	7	8	●	●	●	●	●
<b>1250 × 2500</b>	●	●	●	●	7	8	●	●	●	●	●
<b>1500 × 3000</b>	●	●	●	●	7	8	●	●	●	●	●

### S460MC (W.-Nr. 1.0982)

Breite × Länge Width × Length	3	4	5	6	Dicke/Thickness		10	12	in mm
<b>1000 × 2000</b>	●	●	●	●	7	8	●	●	●
<b>1250 × 2500</b>	●	●	●	●	7	8	●	●	●
<b>1500 × 3000</b>	●	●	●	●	7	8	●	●	●
<b>2000 × 6000</b>			●	●	7	8	●	●	●

### S550MC (W.-Nr. 1.0986)

Breite × Länge Width × Length	5	6	8	10	Dicke/Thickness		in mm
<b>1500 × 7500</b>	●	●	●	●	8	10	●

### S700MC (W.-Nr. 1.8974)

Breite × Länge Width × Length	3	4	5	6	Dicke/Thickness		in mm
<b>1000 × 2000</b>	●	●	●	●	8	10	●
<b>1250 × 2500</b>	●	●	●	●	8	10	●
<b>1250 × 6000</b>	●	●	●	●	8	10	●
<b>1250 × 7500</b>	●	●	●	●	8	10	●
<b>1250 × 10000</b>		●	●	●	8	10	●
<b>1500 × 3000</b>		●	●	●	8	10	●
<b>1500 × 6000</b>		●	●	●	8	10	●
<b>1500 × 8000</b>			●	●	8	10	●
<b>1500 × 12000</b>		●	●	●	8	10	●

# Kaltpress-Stähle

## Cold Formable Steels

<b>EN 10149-3</b>	Technische Lieferbedingungen/Technical terms of delivery
<b>EN 10029/10051</b>	Maße und zulässige Abweichungen/Measurements and permissible deviations

### S260NC (W.-Nr. 1.0971)

gebeizt und geölt/  
pickled and oiled

Breite × Länge Width × Length	Dicke/Thickness									in mm
	3	4	5	6	7	8	10	12	15	20
<b>1000 × 2000</b>	●	●	●	●	●	●	●	●	●	●
<b>1250 × 2500</b>	●	●	●	●	●	●	●	●	●	●
<b>1500 × 3000</b>	●	●	●	●	●	●	●	●	●	●

### S355NC (W.-Nr. 1.0977)

Walzzustand oder  
gebeizt und geölt/  
as rolled or pickled and oiled

Breite × Länge Width × Length	Dicke/Thickness									in mm
	3	4	5	6	8	10	12	15	20	
<b>1000 × 2000</b>	●	●	●	●	●	●	●	●	●	●
<b>1250 × 2500</b>	●	●	●	●	●	●	●	●	●	●
<b>1500 × 3000</b>	●	●	●	●	●	●	●	●	●	●
<b>2000 × 12000</b>	●	●	●	●	●	●	●	●	●	●
<b>2500 × 10000</b>					●	●	●	●	●	●
<b>3000 × 12000</b>						●	●	●	●	●





Die Stähle ThermoCut 1+2 eignen sich besonders für den Einsatz halb- oder vollautomatischer thermischer Trennverfahren wie autogenes Brennschneiden, Plasmaschneiden und Laserschneiden. Eine auf den Verwendungszweck abgestimmte chemische Zusammensetzung und walztechnische Maßnahmen führen zu Spannungsarmut, die Störungen im Betriebsablauf vermeidet. Die Stähle TS-ThermoCut lassen sich in Längs- und Querrichtung kalt umformen sowie flammrichten. TS-ThermoCut 1+2 sind nach allen Verfahren von Hand und maschinell schweißgeeignet; ein Vorwärmen ist nicht erforderlich.

These steels are particularly suitable for applications involving automatic or semiautomatic thermal cutting processes such as oxyacetylene torch cutting, plasma and laser cutting. A specially adapted chemical composition, combined with specific stress-relief rolling techniques, helps to avoid operating disruptions in such processes. TS-ThermoCut steels are suitable for longitudinal and transverse cold forming, as well as flame straightening. TS-ThermoCut can be manually and machine-welded by all common methods without preheating.

<b>gemäß Werkstoffblatt</b>	Technische Lieferbedingungen/Technical terms of delivery
<b>acc. to Materials Data Sheet</b>	Maße und zulässige Abweichungen/Measurements and permissible deviations

### TS-ThermoCut 1

Walzzustand, schwarz, auch gebeizt und geölt/ gestrahlt und geprimert  
as rolled, black, also pickled and oiled/ blast cleaned and primed

Breite × Länge Width × Length	3	4	5	6	Dicke/Thickness					in mm
					8	10	12	15	20	25
<b>1000 × 2000</b>	●	●	●	●	●	●	●	●	●	●
<b>1250 × 2500</b>	●	●	●	●	●	●	●	●	●	●
<b>1500 × 3000</b>	●	●	●	●	●	●	●	●	●	●
<b>2000 × 4000</b>	●	●	●	●	●	●	●	●	●	●
<b>2000 × 6000</b>	●	●	●	●	●	●	●	●	●	●

### TS-ThermoCut 2

N bzw. TM, schwarz, auch gebeizt und geölt/ gestrahlt und geprimert  
normalized or thermo-mechanically rolled, black, also pickled and oiled/ blast cleaned and primed

Breite × Länge Width × Length	3	4	5	6	Dicke/Thickness					in mm
					8	10	12	15	20	
<b>1000 × 2000</b>	●	●	●	●	●	●	●	●	●	
<b>1250 × 2500</b>	●	●	●	●	●	●	●	●	●	
<b>1500 × 3000</b>	●	●	●	●	●	●	●	●	●	
<b>2000 × 8000</b>	●	●	●	●	●	●	●	●	●	



## Borlegierter Sonderbaustahl Boron Alloyed Special Steel

Dieser Sonderbaustahl vereint gute Verarbeitungseigenschaften mit hervorragenden Verschleißwerten in der Anwendung. Der diesem feinkörnigen Baustahl zulegierte Anteil an Bor bewirkt eine Absenkung des Kohlenstoffäquivalentes und beeinflusst damit sowohl die Schweißbeignung als auch die Härbarkeit positiv. Statt der bisher notwendigen Werkstoffvielfalt an einer Konstruktion erfüllt dieser spezielle Baustahl das komplette Anforderungsprofil. Falls erforderlich, können dem Verschleiß unterliegende Partien ganz oder teilweise gehärtet werden.

In practice, this special construction steel combines proven manufacturing characteristics with excellent abrasion values. By adding the alloying element of Boron a further minimisation of its carbon-equivalent is achieved, thus improving both weldability and hardenability. To date almost any construction requires the application of various steel qualities. This special construction steel alone however is able to cover the varying needs. If necessary, construction parts subjected to abrasion stress can be hardened as required either in total or preferred sections.

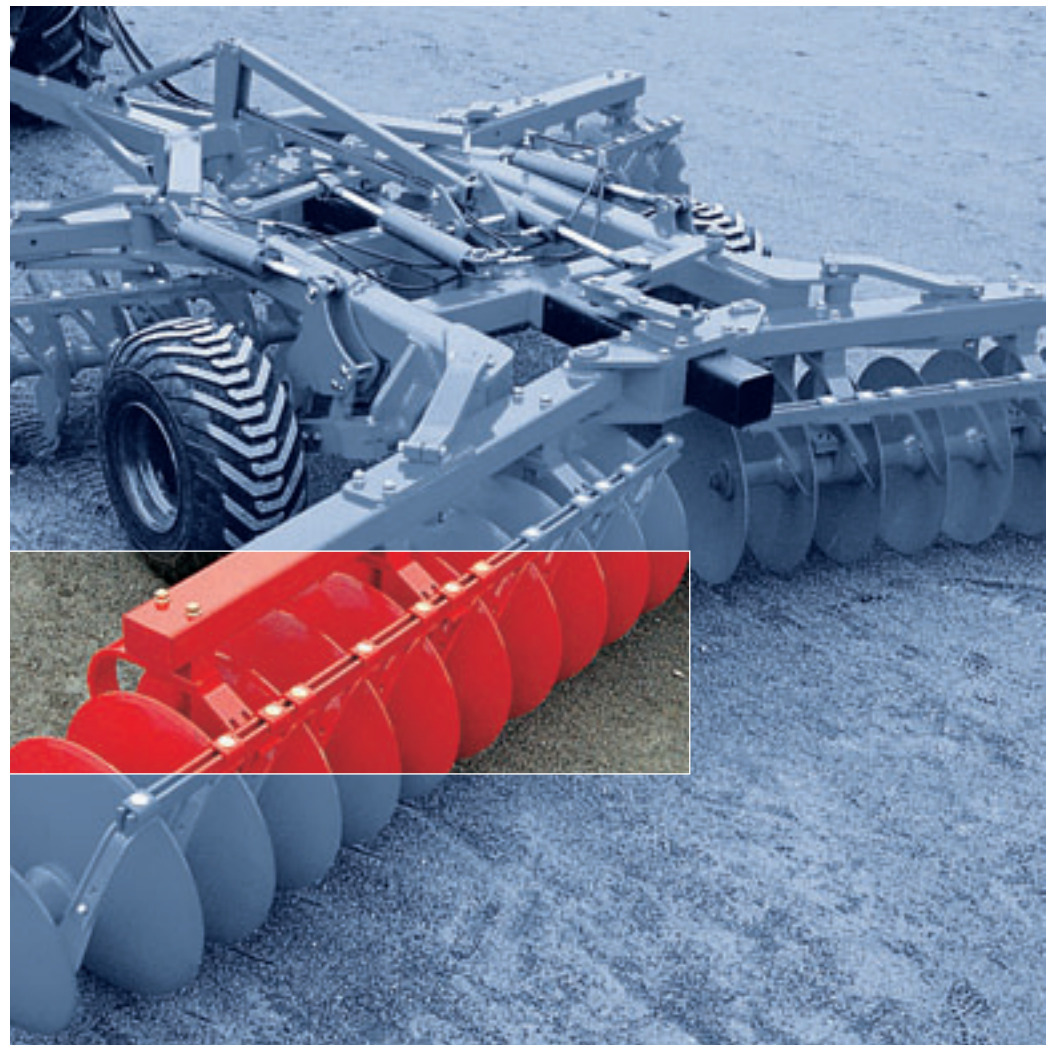
gemäß **Werkstoffblatt**  
acc. to **Materials Data Sheet**

Technische Lieferbedingungen/Technical terms of delivery

Maße und zulässige Abweichungen/Measurements and permissible deviations

### 27MnB5 (W.-Nr. 1.5529)

Breite × Länge Width × Length	3	4	5	6	7	8	10	12	14	15	20	25	30	35	40	45	50	60	80	Dicke/Thickness in mm
1500 × 3000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2000 × 12000			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2500 × 12000						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3000 × 6000						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



# Manganhartstahl

## Austenitic Manganese Steel

Manganhartstahl ist ein austenitischer Stahl mit hohem Verschleißwiderstand bei starker Beanspruchung durch Stöße und Schläge. Die guten Verschleißwerte werden durch Abschrecken bei 1050–950 °C und anschließender Abkühlung im Wasserbad erreicht. Einsatzschwerpunkte sind Baggerzähne, Baggerbolzen, Mahlplatten und Schlagelemente in Aufbereitungsanlagen. Während das Zerspanen wegen der hohen Verfestigungsfähigkeit schwierig ist, lässt sich Manganhartstahl elektrisch gut schweißen. Dabei sollte so kalt wie möglich geschweißt werden und dünne Elektroden verwendet werden.

Austenitic manganese steel displays high wear resistance under severe shock and impact loads. Its good wear properties are achieved by quenching at 1050–950 °C and then cooling in a water bath. Main areas of use are excavator teeth and pins, grinding plates and impact elements in mineral processing equipment. While machining is difficult due to the material's high work hardening capacity, austenitic manganese steel can be readily joined by electric welding. It should be welded as cold as possible using thin electrodes.

<b>gemäß Werkstoffblatt</b>	Technische Lieferbedingungen/Technical terms of delivery
<b>acc. to Materials Data Sheet</b>	Maße und zulässige Abweichungen/Measurements and permissible deviations

### X120Mn12 (W.-Nr. 1.3401)

Breite × Länge Width × Length	1,5	2	3	Dicke/Thickness				in mm
				4	5	6	8	10
<b>1000 × 2000</b>	●	●	●	●	●	●	●	●
<b>1250 × 2500</b>	●	●	●	●	●	●	●	●
<b>1500 × 3000</b>	●	●	●	●	●	●	●	●



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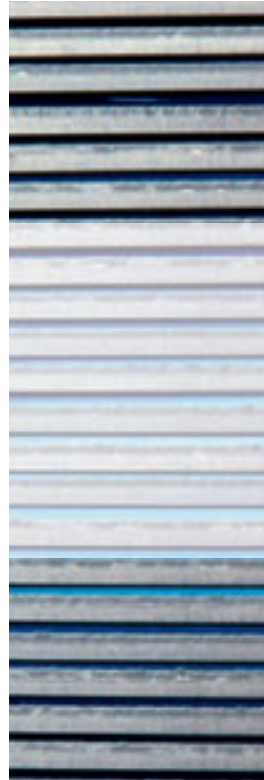
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