



# LOW ALLOY STEEL PIPES

ERNDEBRÜCKER  
EISENWERK

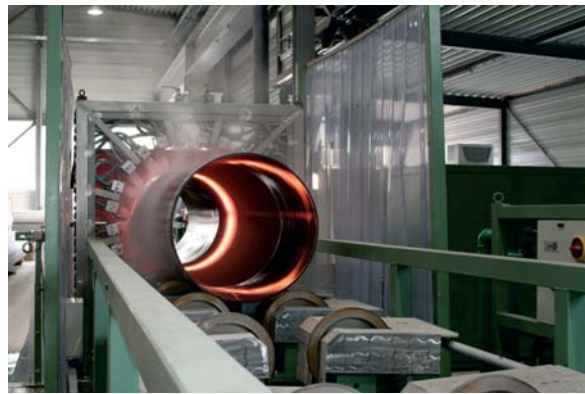




EEW's extensive experience and dedication to producing high quality longitudinally welded steel pipes allows us to serve a wide variety of industries and applications.

Our modern production facilities enable us to manufacture specialised low alloy steel pipes for the oil & gas, chemical and power generation industries, not only in standard pipe sizes but also in client's specific dimensions with O.D. starting at 406,4 mm (16") up to 4000 mm (157"), wall thicknesses of up to 203 mm (8") and production lengths up to 13200 mm (43ft). Please refer to the production chart in our carbon steel brochure or if in doubt please contact our competent sales team for advice.

Our state of the art post weld heat treatment facilities allow us to deliver pipes in the stress relieved, normalized, normalized and tempered or quenched and tempered conditions dependant upon the requirements of the individual material specifications.



Real time radiographic examination in accordance with ASME guarantees 100% NDT as per class x1 & x2 requirements. Automatic ultrasonic equipment is also available should your specification require 100% UT examination.

EEW's highly experienced production staff guarantees delivery of a quality product when and where you need it, whether just around the corner or around the world.



EEW produces low alloy longitudinally welded pipes in accordance with the requirements of DIN-EN, ASTM, ASME and client's specifications from the following grades of steel:

### Mo – alloyed

ASTM A 204 Gr. A, B, C ASTM A 533 Gr. A ASTM A 302 Gr. A, B	EN DIN 10 028-2	16Mo3	1.5415
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### CrMo – alloyed

ASTM A 387 Gr. 11, 12	EN DIN 10 028-2	13CrMo4-5	1.7335
ASTM A 387 Gr. 22	EN DIN 10 028-2	10CrMo9-10	1.7380
	EN DIN 10 028-2	11CrMo9-10	1.7383
ASTM A 387 Gr. 5		12CrMo19-5	1.7362
ASTM A 387 Gr. 9		X12CrMo91	1.7386
ASTM A 387 Gr. 91		X10CrMoVNb9-1	1.4903

### Ni – alloyed

ASTM A 203 Gr. A, B, D, E, F	EN DIN 10 028-4	11MnNi5-3	1.6212
	EN DIN 10 028-4	13MnNi6-3	1.6217
	EN DIN 10 028-4	12Ni14	1.5637
	EN DIN 10 028-4	12Ni19	1.5680
	EN DIN 10 028-4	X8Ni9	1.5662

### MoNi – alloyed

ASTM A 302 Gr. C, D		15NiCuMoNb5	1.6368
ASTM A 533 Gr. B, C, D		20MnMoNi55	1.6310

### Supermartensites

EEW – SUPERMA-X80®			
low alloyed	11Cr2Ni	Please refer to our brochure „SUPERMA-X80“ for details.	
medium alloyed	12Cr4.5Ni1.5Mo		
high alloyed	12Cr6.5Ni2.5Mo		

Upon request, our scope of supply also includes the submittal of WPS/PQR's, quality plans and test procedures for review and approval before the start of production.

All products are supplied with an inspection certificate in accordance with DIN EN 10204 - 3.1 or 3.2.



## **APPROVALS**

The following approvals are available for the production of low alloy steel pipes:

- AD HP 0
- ASME U, U2 and S stamps (EEW Germany)
- ASME NPT stamp (EEW Korea)
- ISO 9001 – LRS
- PRESSURE EQUIPMENT DIRECTIVE, Annex I, 3.1



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