



# STEEL FOUNDRY

HIGH-QUALITY TOOL STEEL ROLLS  
FOR TUBE AND SECTION MILLS

ENGLISH



**Dörrenberg**  
Edelstahl **DD**



Raw casting



Heat treatment



Machining



Assembly



Final inspection



ERWIHF Tube Mill

## SPECIAL STEEL ROLLS FOR TUBE MILLS

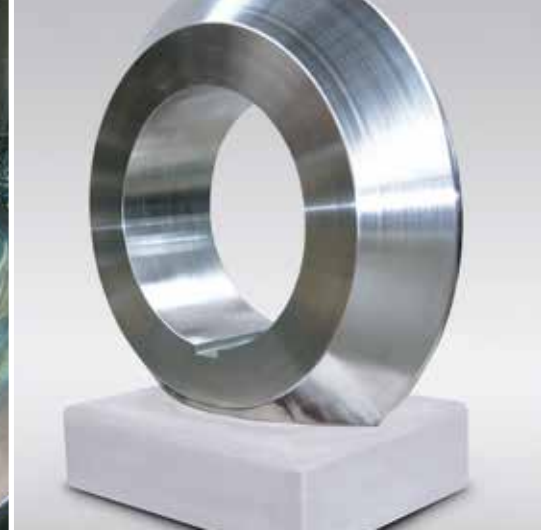
**Steel has been our passion for more than 150 years. Dörrenberg offers solutions in the field of special steels, steel foundry, casting products and coating & hardening.**

Core products are wear resistant rolls made of tool steel, distinguished by high accuracy, high wear resistance and excellent toughness. Dörrenberg rolls are entirely "made in Germany" can be realized in nearly all sizes and virtually for each type of installation. For detailed information, please feel free to talk to us. We will be happy to provide further assistance.

### Capacities

- Unit weights up to 6 tons
- Wallthickness up to 500mm
- Outside diameters up to 1,800mm
- Special heat treatment including vacuum through hardening
- Finish machining according to drawing
- 100% ultrasonic and liquid penetrant inspection
- Upon request rolls are also available in forged execution










Rail straightening

Precise execution of surface and keyway

## SPECIAL STEEL ROLLS FOR STRAIGHTENING MACHINES

	<b>Sheet Piles</b>
	<b>Channels</b>
	<b>Angles</b>
	<b>Beams</b>
	<b>Rails</b>

### Benefits

- Optimum cost-performance ratio
- Long service life
- Highest wear resistance
- Excellent material properties
- Ready for installation
- Quality guarantee according to DIN EN ISO 9001
- Centuries of know-how combined with latest technologies
- Customer confidence in 100% in-house production

## Wear-resistant casting materials – selection of common materials

<b>Dörrenberg</b>						
<b>Brand name</b>	<b>GWP8V</b>	<b>GP4M®</b>	<b>GCCPU</b>	<b>GP16</b>	<b>GP16XR</b>	
Material number	–	–	1.2382	1.2602	–	
Short name	special material	special material	GX155CrVMo12-1	GX165CrMoV12	special material	
Type of alloy %	<b>C</b>	0.70	0.60	1.55	1.60	1.80
	<b>Si</b>	1.00	0.30	0.65	0.35	0.65
	<b>Mn</b>	0.35	+	0.50	0.30	0.50
	<b>Cr</b>	7.60	5.00	11.50	11.50	13.50
	<b>Mo</b>	1.50	+	0.80	0.60	0.90
	<b>V</b>	1.75	+	1.00	0.30	0.45
	<b>W</b>	0.50	–	–	0.50	–
	<b>Co</b>	–	–	–	–	0.75
Hardness HRc (through hardened)	54-58	55-60	55-60	55-60	55-60	

*In addition, all other wear-resistant materials as well as customer-specific modifications are possible.*

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