



**SCHMITZ**  
SOLINGEN'S STEEL SPECIALIST

**TWO-ROLL  
STRAIGHTENING  
MACHINE**

Type

**ZWRP**

**FOR STRAIGHTENING AND  
POLISHING OF ROUND BARS AND  
THICK-WALLED TUBES**

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ROUND BARS AND THICK-WALLED TUBES**

Diameter range from 6 to 120 mm,  
Straightening accuracy up to 0.1 mm/m with an  
original straightness of max. 5 mm/m,  
Improving surface quality up to Rz = 2 µm

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**DESIGN FEATURES  
ZWRP SERIES**

- » 2 driven straightening rolls
- » Good visibility and simple maintenance ensured by vertical arrangement of straightening rolls
- » 4 tie-rods connect the top and bottom part rigidly
- » Hydraulic overload protection for models ZWRP 50/65, 75/90 and 100/120
- » Guiding the material to be straightened at the inlet and outlet side by adjustable guide bushes or V-guides
- » Lateral guiding of the material by easy exchangeable range dependent
- » Simple dismantling of the rolls by removing only a few fasteners. Supported by auxiliary equipment.
- » Motor-driven vertical adjustment for top roll (manual adjustment at ZWRP 20/30)
- » Motor driven angle settings for both straightening rolls (from Type 50/65)
- » Single motor drives for both straightening rolls with frequency-controlled AC motor.

**FIELD OF APPLICATION  
UTILIZATION OF  
STRAIGHTENED MATERIAL**

- » Raw material **for metal forming processes**, for example cold extruded parts, forging parts
- » Raw material **for machining**; for example shafts, piston rods, ball bearings, turning workpieces
- » Short bars as semi-finished and finished products, for example shafts for textile- and business machines, shafts for small motors, shock absorber piston rods, rocker bar shafts and chain bolts

**ROLLS**

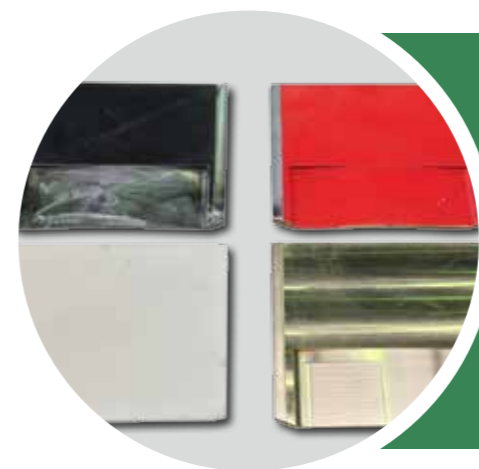
Comparison of the ZWRP-series' bottom rolls



**GUIDES**

Guides (gibs) made of varying material suitable for your product:

- Welded hard material → Layer welded on steel body
- Plastics PA-6.6 → Bronze F60



**ZWRP-TYPES**

	ZWRP 20/30	ZWRP 35/50	ZWRP 50/65	ZWRP 75/90	ZWRP 100/120
Working range, mm Ø	6 - 30	8 - 50	10 - 65	12 - 90	20 - 120
Working range with Rp0,2 =800 N/mm², mm Ø	20	35	50	75	100
Straightening speed standard, m/min, max. (Adaption according to process)	80	70	60	50	35
Power of drive motors, kW	2 x 7,5	2 x 22	2 x 45	2 x 110	2 x 132



**INDIVIDUAL SOLUTIONS**

All types will be adapted to the production requirements and can be combined with upstream and downstream production equipment.

Handling systems for two-roll straighteners are part of our product range and will be designed according to your specific requirements.







**SCHMITZ**  
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**OUR FAMILY OWNED BUSINESS WAS FOUNDED  
IN 1972 AND IS YOUR "SOLINGEN'S STEEL  
SPECIALIST" FOR NEW AND USED MACHINES  
FOR TUBE AND BAR PROCESSING.**

## **OUR PRODUCT RANGE INCLUDES:**

### **New machines for tube and bar processing**

- » Hammer machines  
for tube pointing
- » 6 roll tube straightening machines
- » Chamfering machines  
for tubes and bars
- » 2 roll bar straightening machines  
for bright bars
- » 9 and 10 roll straightening  
machines for black bars
- » Manufacturing based on  
customer's design

### **Welded design**

- » Gearbox housings
- » Special machine construction
- » Steel construction
- » CNC flame-cutting

### **Overhaul and repair of machines for tube- and bar processing**

- » Straightening machines  
for black material  
(e.g. VRUWN-series)
- » Straightening machines  
for bright material (WRP-series)
- » Tube straighteners  
(VRM-series)
- » Tube pointing machines  
(AVS-series)

### **Handling systems**

- » Loading systems
- » Collecting systems
- » Transportation systems

### **Used machine trading**

- » Spare parts
- » Service

Because of our shared fields of competence, we are able to manufacture fast and flexible, but also in accordance with the high demands of our customers. The quality of our products and services and customer satisfaction are the highest priority.

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