

**FORGIS**

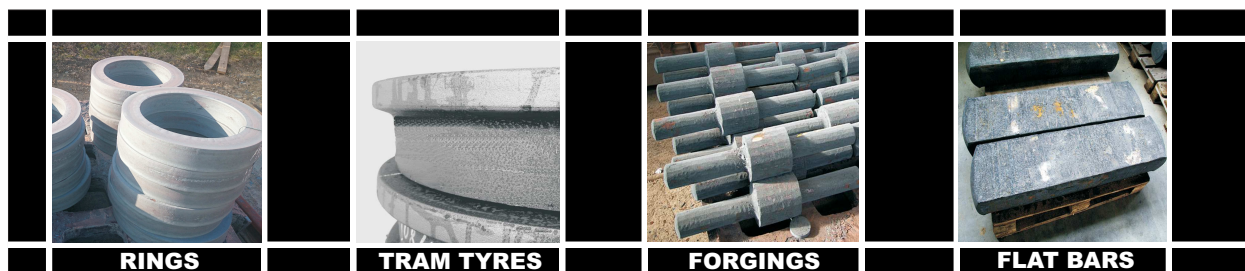
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SEAMLESS ROLLED RINGS



Range of weight: 1250 kg

Dimensions:

Outside diameter: Dz=2500 mm

Height: H=390 mm

Materials: carbon steels, alloyed and high-alloyed steels acc. to EN, PN, DIN

Heat treatment: normalization, toughening, relief annealing

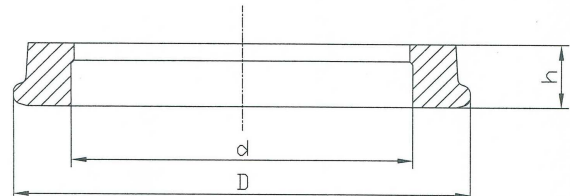
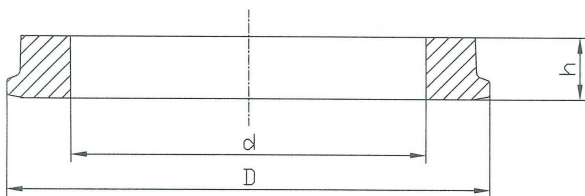
Research: mechanical properties, ultrasonic, magnetic-powder

Attests: 3.1 in EN 10204 , 3.2 in acceptance UDT, TÜV, PRS, LRS, GL, DNV, BV, ABS





Rough tramway tyres for tram wheel sets are manufactured as forged and rolled of the following sizes and tolerances:



Range of weight: to 300 kg

Dimensions:

Outside diameter: D 490-900 mm (tolerance from ± 3 to ± 6)

Inside diameter d 300-650 mm (tolerance from ± 3 to ± 5)

Height: h=90-130 mm (tolerance from ± 3 to ± 5)

Materials: B6, V101, P70

Heat treatment: toughening

Surface: raw after rolling or after mechanical working process

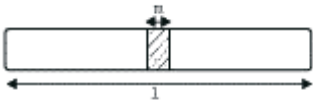
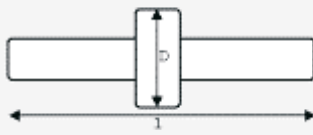
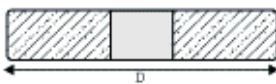
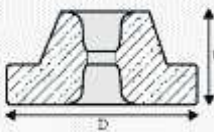
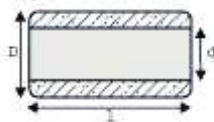
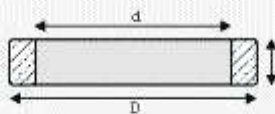
Research: as required

Atests: 3.1 in EN 10204 , 3.2 in external acceptance



OPEN-DIE FORGINGS



FORGINGS TYPE	SHAPE	DIMENSIONS
ROUND BARS		$D_{\max}=500 \text{ mm}$ $L_{\max}=4000 \text{ mm}$ $\text{weight}_{\max}=1800 \text{ kg}$
FLAT BARS		$m_{\min}=20 \text{ mm}$ $L_{\max}=4000 \text{ mm}$
PLUGS, SHAFTS		$D_{\max}=600 \text{ mm}$ $L_{\max}=4000 \text{ mm}$ $\text{weight}_{\max}=1800 \text{ kg}$
WHEELS, PERFORATED WHEELS		$D_{\max}=1500 \text{ mm}$ $\text{weight}_{\max}=1800 \text{ kg}$
FLANGES DIN, EN 1092-1 or ASME B16.5 (dimension NW10-NW400 or 1"-36")		$D_{\max}=830 \text{ mm}$ $m_{\max}=500 \text{ mm}$
HOLLOW BODIES		$D_{\max}=800 \text{ mm}$ $d_{\max}=600 \text{ mm}$ $L_{\max}=800 \text{ mm}$
RINGS		$D_{\max}=1600 \text{ mm}$ $d_{\max}=1400 \text{ mm}$ $L_{\max}=300 \text{ mm}$
HOOKS (up to 20 tons)	