

Steel Grinding Rods Ø40-120 mm

Product datasheet - grinding media and wear parts

Steel grinding rods are a type of grinding media used in rod mills for crushing and grinding materials such as ores, coal, limestone, and other industrial raw materials. They are commonly used in mining, metallurgy, cement, and chemical industries.

Rod mills grind by line contact, so the rod must stay straight and resist bending for its whole life. A bent rod bridges in the mill, stops the charge from cascading and can damage the liners.



Diameter tolerance and length tolerance

Diameter(mm)	Length(mm)	Diameter tolerance(mm)	Length tolerance(mm)
40-120	2000-6000	-1.6-0.2	-20-0

Technical specification

Impact value(J/cm2)	Hardness (HRC)	Breakage rate	Drop times(times)	Straightness
5-7	45-55	<1%	>=10	2/1000

Chemical composition

Material	C (%)	Si (%)	Mn (%)	Cr (%)	Cu (%)	Mo (%)	P (%)	S (%)	Ni(%)
45#	0.42-0.50	0.17-0.37	0.5-0.80	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
60Mn	0.57-0.65	0.17-0.37	0.70-1.0	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
65Mn	0.62-0.70	0.17-0.37	0.90-1.0	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
40Cr	0.37-0.45	0.17-0.37	0.50-0.8	0.80-1.1	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
42CrMo	0.38-0.45	0.17-0.37	0.50-0.80	0.90-1.2	0-0.03	0.15-0.25	0-0.035	0-0.035	0-0.30
B-2	0.70-0.80	0.17-0.37	0.70-0.80	0.50-0.60	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30

Typical applications

Sizes are supplied to the tolerance stated in the specification table above; Hardness and impact values are recorded per heat and reported on the mill certificate; Mixed sizes can be loaded in one container to suit a chamber change; Packing options: 1 t bulk bag, 850 kg steel drum or 2 t pallet.

Ordering notes

Minimum order, lead time and packing are confirmed against the size mix or drawing in your enquiry. Each shipment carries a test report with chemistry, hardness, impact value and breakage rate for the heat. Payment terms: T/T with 30% deposit, or irrevocable L/C at sight. Shipping: FOB Qingdao, CIF or DAP.

Ordering and technical support

Send the mill type, media size or liner drawing, quantity and destination port. We reply with a quotation, packing plan and lead time within 12 hours.

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