

Hot-Rolled Grinding Cylpebs 20x30-60x70 mm

Product datasheet - grinding media and wear parts

Heating : Steel billets are heated to 1,100-1,200 degC to reach a malleable state.

Hot Rolling : The heated steel is passed through rollers to form cylindrical shapes with rounded edges, ensuring uniformity. Heat Treatment : After rolling, Cylpebs undergo quenching (rapid cooling) and tempering to optimize hardness (for wear resistance) and toughness (to withstand impact).

Mining : Grinding ores (e.g., copper, gold, iron) in ball mills. Cement Production : Crushing clinker and raw materials. Coal Processing : Pulverizing coal in thermal power plants. Chemical Industry : Fine grinding of minerals and pigments.



Size and Tolerance

Size (mm)	20x30	25x35	30x40	35x45	40x50	45x55	50x60	55x65	60x70
Diameter tolerance(mm)	+/-1	+/-1	+/-1	+/-1	+/-1	+/-1	+/-1	+/-1	+/-1
Length tolerance(mm)	+/-2	+/-2	+/-2	+/-2	+/-2	+/-2	+/-2	+/-2	+/-2

Advantages

Material	Breakage rate	Hardness(HRC)	Impact value(J/cm2)	Drop times(times)	Micro structure
45#	<1%	>=45	>=12	>=8000	M+C
60Mn	<1%	>=55	>=12	>=12000	M+C
65Mn	<1%	>=58	>=12	>=12000	M+C
B-2	<1%	>=60	>=12	>=15000	M+C

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
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

Increased Surface Contact : Their cylindrical shape provides more linear contact with material, improving grinding efficiency.; Enhanced Durability : The hot rolling and heat treatment process results in high hardness (HRC 60-65) and impact toughness, reducing wear rates.; Lower Consumption : Longer operational lifespan translates to cost savings in mining and cement industries.; 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.

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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