



Technical resources

Light-duty roll ball mill

Model: QM

<https://www.tencanballmills.com/en/products/grinding-series/drum-ball-mill/light-duty-roll-ball-mill.html>

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Model: QM

Light-duty roll ball mill for fine grinding of materials. Features gravity-driven impact and shear action for efficient particle size reduction. Ideal for laboratory and small-scale production in powder processing.

Technical specifications

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Volume	30~2000L
Loading capacity	10.5~700kg
Output particle size	$\geq 300\mu\text{m}$

These specifications describe the series. Confirm the selected model, power supply and configuration before ordering.



When the light roller ball mill is working, the grinding media and materials in the cylinder are raised to a certain height with the rotation of the cylinder. Due to gravity, they break away from the cylinder wall and fall along a parabola. The grinding media and materials roll at high speed in the grinding tank, causing strong shearing, impact, and rolling of the materials to achieve the purpose of crushing, grinding, dispersing, and emulsifying the materials.



Technical parameters

name	Volume(L)	Speed(rpm)	Loading capacity(L)	Motor power(kw)	Feed particle size (mm)	Discharge particle size (mesh)	Speed regulation method
QM-30L	30	20~60	10.5	0.75	≤5	≥300	Frequency conversion stepless speed regulation or fixed speed
QM-50L	50	20~50	17.5	1.5	≤5		
QM-100L	100	20~45	35	2.2	≤10		
QM-200L	200	20~40	70	4	≤10		
QM-300L	300	20~38	105	5.5	≤10		
QM-500L	500	20~36	175	7.5	≤10		
QM-1000L	1000	20~34	350	11	≤20		
QM-2000L	2000	20~34	700	22	≤20		

Note: 25-50L is single-phase 220V, and above 50L is three-phase 380V. Mill barrel material: carbon steel, stainless steel, can be lined with nylon polyurethane, polytetrafluoroethylene, corundum, etc.

1. Model description: QM-(Volume)-(A speed regulating type, B ordinary type) For example: QM-50-A is a 50L speed regulating roller ball mill;
2. Determine the machine model based on the grinding volume;
3. Select ball mill tanks (or different ball mill tank linings) and grinding balls of different materials according to the material properties.;
4. You can choose equipment with automatic unloading device and dust cover. Material and balls can be separated automatically, making discharging convenient □
5. The machine operates smoothly, is highly efficient and energy-saving, and has low noise. ;
6. It can be used for dry or wet grinding, and can handle materials of various hardnesses. It can be used for coarse or fine grinding or mixing of materials. ;
7. Using a protective jacket, the material has high purity and low pollution ;
8. Anti-wear, high grinding efficiency ;
9. Alumina corundum ceramic, zirconia ceramic and other linings can be used, and the model can be selected from 25-2000L according to the user's output.

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2. It can be used for dry or wet grinding, can handle materials of various hardness, and can be used for coarse or fine grinding or mixing of materials. ;
3. With automatic unloading machine, materials and balls can be separated automatically, making discharging convenient ;
4. Using a protective jacket, the material has high purity and low pollution ;
5. Anti-wear, high grinding efficiency ;
6. Alloy steel, stainless steel, high wear-resistant polyurethane, corundum ceramic, zirconia and other linings can be used. The model can be selected from 25-2000L according to the user's output.

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Before operation, review the selected model's instructions and the material requirements.