



Technical resources

Tungsten carbide planetary mill jar

<https://www.tencanballmills.com/en/products/grinding-series/planetary-ball-mill-jar/tungsten-carbide-planetary-mill-jar.html>

09.10.2026 / TENCAN

Tungsten carbide planetary mill jar

Model:

High-hardness, wear-resistant tungsten carbide planetary mill jar made via powder metallurgy. Ideal for grinding hard materials in labs and industries, with strength retained even at 500°C.

Technical specifications

Model specification	50ml-2000ml
Outer diameter (mm)	φ65-φ156
Height (mm)	57-170

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



The cemented carbide ball mill tank is a ball mill tank made of hard compounds of refractory metals and bonded metals through a powder metallurgy process. It has a series of advantages such as high hardness, wear resistance, high strength, good toughness, heat resistance and corrosion resistance. Among them, the high hardness and high wear resistance are particularly outstanding, and they remain basically unchanged even at a temperature of 500°C.



硬质合金罐



硬质合金罐配氧化锆球



硬质合金罐配氧化锆球







Carbide ball mill jars are used in planetary ball mills, equipped with carbide grinding balls, for grinding high-hardness powders such as carbide powder, diamond, and emery.

Technical parameters

Model specifications	Outer diameter (mm)		Inner diameter (mm)		Height(mm)	
	thick wall	thin wall	thick wall	thin wall	thick wall	thin wall
50ML	48	/	38	/	54	/
100ML	62	/	48	/	72	/
250ML	87	/	71	/	83	/
500ML	106	88	90	81	108	110
1L	131	107	115	100	118	140
1.5L	131	132	115	125	158	140
2L	157	132	141	125	148	181
2.5L	157	158	141	151	183	156
3L	157	158	141	151		
4L	178	179	162	170	213	186
5L	192	/	182	/	209	/
10L	243	/	232	/	259	/
15L	271	/	261	/	295	/
20L	320	/	310	/	284	/
25L	320	/	310	/	347	/

1. High temperature resistance, with working temperature up to 1000°C.
2. High wear resistance, it still has high wear resistance at a temperature of 500°C.
3. High hardness, ultra-high hardness is the main feature of carbide tanks.
4. Strong toughness, not only has high hardness, but also has good toughness.

Contact

Changsha Tianchuang Powder Technology Co., Ltd. / Changsha, Hunan, China

Email: lichang0516@gmail.com

Phone / WhatsApp: +86 731 84027560 / WhatsApp +86 19021571516

<https://www.tencanballmills.com/en/products/grinding-series/planetary-ball-mill-jar/tungsten-carbide-planetary-mill-jar.html>

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