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PRODUCT CATALOG / Planetary Mills

Dual Planetary Ball Mill

SXQM series

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Dual Planetary Ball Mill

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A dual-planetary laboratory mill with a compound disc arrangement.

Overview

A dual-planetary laboratory mill with a compound disc arrangement. The product information describes a large planetary disc driving smaller planetary discs, adding a distinct motion arrangement to the milling process.

How it works

The larger and smaller disc motions act together with jar rotation. This changes the mechanical loading of the media compared with a conventional single-planetary arrangement, but the final result still needs sample-specific evaluation.

Key features

- The published SXQM chart lists 0.4, 1, 2, 4 and 6 L nominal configurations.
- Four jar positions are listed; “dual planetary” does not mean a two-jar machine.
- Capacity, drive, speed and dimensions are reproduced from the matched SXQM tables.

Specifications

Published catalog references are reproduced below. Nominal volume is not a sample-mass rating. Confirm the selected model, material grade, electrical supply and complete supplied configuration in the quotation.

Model specifications — 1

Model	Nominal capacity	Compatible jar volume	Jar positions	Vacuum jar option
SXQM-0.4	0.4L	50-100mL	4	50mL vacuum jar
SXQM-1	1L	250mL	4	50-100mL vacuum jar
SXQM-2	2L	500mL	4	50-250mL vacuum jar
SXQM-4	4L	1000mL	4	50-1000mL vacuum jar
SXQM-6	6L	1500mL	4	50-1000mL vacuum jar

Model specifications — 2

Model	Electrical supply	Motor power (kW)	Programmable run time (min)	Reversing interval (min)	Revolution speed (rpm)
SXQM-0.4	220V-50Hz	0.75	1-9999	1-999	70-560
SXQM-1	220V-50Hz	0.75	1-9999	1-999	70-560
SXQM-2	220V-50Hz	0.75	1-9999	1-999	70-560
SXQM-4	220V-50Hz	0.75	1-9999	1-999	70-560
SXQM-6	220V-50Hz	0.75	1-9999	1-999	70-560

Model specifications — 3

Model	Jar rotation speed (rpm)	Published noise level (dB)
SXQM-0.4	140-1120	58±5
SXQM-1	140-1120	60±5
SXQM-2	140-1120	60±5
SXQM-4	140-1120	60±5
SXQM-6	140-1120	60±5

Model specifications — 4

Model	Motor power (kW)	Speed control	Machine mass (kg)	Dimensions (mm)
SXQM-0.4	0.75	Variable-frequency control	250	1150×800×760
SXQM-1	0.75	Variable-frequency control	250	1150 × 800 × 760
SXQM-2	0.75	Variable-frequency control	250	1150 × 800 × 760
SXQM-4	0.75	Variable-frequency control	250	1150 × 800 × 760
SXQM-6	0.75	Variable-frequency control	250	1150 × 800 × 760

Applications

Laboratory powder processing, mixing and materials-development trials requiring evaluation of a compound planetary motion.

Suitability depends on the actual sample, process and analytical requirements; a listed application is not a guaranteed final-particle-size result.

Accessories and options

Discuss compatible jar materials, media and listed vacuum-jar options. Cooling and other process assistance require a configuration-specific check.

- Jar and media: confirm material, volume, holder fit and the complete working load.
- Vacuum or gas requirements: specify the complete jar, lid and seal arrangement; no pressure rating is assumed.
- Utilities and supply scope: state voltage, frequency, phase, destination and required documents; confirm included versus optional items.

Compare milling jars · Compare grinding media · Air-cooled systems · Ultrasonic-assisted systems

Selection guidance

Select the jar volume, complete loaded mass and sample requirements together. Confirm whether the proposed motion and operating program are suitable for the material instead of relying on a universal high-energy claim.

Work through the selection guide · Request a configuration quotation

Trials and comparisons

No identifiable trial of this exact product/configuration was found in the available planetary-milling test summaries. A result from a different mill, jar grade or assistance system is not attributed to this product.

A comparison to request

A meaningful comparison uses the same material and analytical method with documented media and loading. The supplied workbook does not identify an SXQM-controlled comparison, so a quantified improvement is not claimed.

Discuss a sample evaluation

Plan your milling configuration.

TENCAN develops and manufactures planetary milling equipment, with application support in Changsha and a production base in Wushi, Hunan.
Share your material, batch size, target particle size and contamination limits. Our team can help confirm the mill, jars, media and electrical requirements, or arrange a sample grinding evaluation.
Reference information applies to the described models and conditions. Confirm the final specification and supplied accessories with TENCAN before ordering.
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Product page https://www.planetaryballmill.com/planetary-ball-mills/dual-planetary-sxqm.html
Sample grinding www.planetaryballmill.com/sample-testing/