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PRODUCT CATALOG / Planetary Mills

Continuous planetary ball mill

LXYM series

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A continuous planetary milling range for feed trials, process development and production configurations.

Overview

A continuous planetary milling range for feed trials, process development and production configurations. The listed LXYM models use multiple chambers; chamber volume is not a published throughput rating.

How it works

The chamber assemblies revolve and rotate while material is processed through the configured feeding and discharge arrangement. Residence time and feed behaviour need to be established for the actual material.

Key features

- The chart lists configurations with two to six chambers.
- Combined chamber volumes are shown as explicit volume calculations, from 0.25 × 2 L upward.

- Revolution and rotation drives are listed separately; some larger entries specify gear transmission rather than a separate rotation-power value.

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

Reference	Model	Chambers	Combined chamber volume (L)	Revolution speed (rpm)	Revolution drive power (kW)
Continuous unit 1	LXYM-2T-1	2	$0.25 \times 2 = 0.5$	300–500	1.1
Continuous unit 2	LXYM-4T-2	4	$0.25 \times 4 = 1$	300–500	1.5
Continuous unit 3	LXYM-3T-3	3	$0.5 \times 3 = 1.5$	300–500	2.2
Continuous unit 4	LXYM-4T-4	4	$0.5 \times 4 = 2$	300–500	2.2
Continuous unit 5	LXYM-6T-5	6	$0.5 \times 6 = 3$	300–500	3
Continuous unit 6	LXYM-4T-6	4	$2 \times 4 = 8$	300–500	4
Continuous unit 7	LXYM-6T-7	6	$3.0 \times 6 = 18$	300–500	18.5
Continuous unit 8	LXYM-4T-8	4	$50 \times 4 = 200$	300–500	75

Model specifications — 2

Reference	Rotation speed (rpm)	Rotation drive power (kW)	Listed process scale
Continuous unit 1	800-3000	0.75	Continuous process characterization / feed trials
Continuous unit 2	800-3000	1.1	Continuous milling / feed optimization
Continuous unit 3	800-3000	1.5	Continuous milling / feed optimization
Continuous unit 4	800-3000	1.5	Continuous milling / feed optimization
Continuous unit 5	800-3000	2.2	Pilot continuous milling / feeding
Continuous unit 6	800-3000	4	Pilot continuous milling / feeding
Continuous unit 7	800-3000	Gear drive	Continuous production / feeding
Continuous unit 8	800-3000	Gear drive	Production continuous milling / feeding

Applications

Continuous feed studies, process optimization, mechanochemical research and configured production powder processing.

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 feed/discharge hardware, process-contact materials, media, controls and utilities as an integrated proposal. A batch mill's jar accessories cannot be assumed to fit a continuous system.

- 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](#) · [Low temperature planetary grinding machines](#) · [Ultrasonic planetary ball mills](#)

Selection guidance

Specify feed form, intended feed rate, required product distribution and the collection arrangement. Ask how residence time, media retention and discharge will be assessed; no universal kg/h value is inferred from chamber volume.

[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

Compare feed rate and residence conditions while keeping material and analytical methods consistent. Batch XQM workbook results do not verify continuous LXYM performance.

[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/continuous-planetary-ball-mill.html>

Sample grinding www.planetaryballmill.com/sample-testing/