

SPEC SHEET

Roller Compactor

GZL-1000 MODEL

INTRODUCTION

The GZL-1000 Roller Compactor is the definitive solution for high-volume, continuous dry granulation in the pharmaceutical, food, and chemical industries. Engineered for large-scale manufacturing, this system excels at processing moisture-sensitive, hygroscopic, and heat-labile materials where traditional wet granulation is not an option.

By optimizing bulk density and flowability at scale, the GZL-1000 serves as the critical anchor for your production line—delivering a consistent, high-quality granular feed for high-speed tablet presses, large-scale capsule filling, and industrial sachet packaging.

KEYWORDS [Pharmaceutical Granulator](#) | [Roller Compaction](#) | [Powder Densification](#) | [Large Scale Granulation Line](#)



ATTRIBUTES

- **Superior Sealing & Air-Purge Technology:** To ensure the highest levels of batch purity and mechanical integrity, all product-contact parts feature an independent multi-stage sealing design. Integrated with a precision air-purging system, the GZL-1000 offers a

reliable, airtight barrier that prevents leakage and maintains a clean-room-compliant environment even during high-load operations.

- **Heavy-Duty Compaction Engineering:** The system utilizes a universal shaft transmission for its twin-roller assembly, paired with an optimized offset feeding structure. This robust mechanical design ensures uniform pressure distribution, resulting in superior granule stability and advanced performance that stays consistent across long production runs.
- **Modular “Quick-Clean” Architecture:** Recognizing that downtime is a critical cost, the GZL-1000 features a fully modular design. The horizontal feeding, vertical feeding, and granulation units are independent components. Each can be individually removed, and the horizontal auger can be extended and rotated 90 degrees via a lead screw for unprecedented access, making deep cleaning and maintenance faster than ever.
- **Centralized Intelligence & PLC Integration:** Manage your entire production process from a single, intuitive HMI. The integrated PLC system provides total control over horizontal and vertical feeding, compaction, and granulation via frequency conversion. With real-time system pressure monitoring, automated feeding rates, and comprehensive data query functions, your process remains fully transparent and easy to validate.
- **Integrated Industrial Design:** The GZL-1000 is built as a cohesive, high-performance unit. Its structural design allows for the horizontal and vertical sections to rotate 90 degrees, facilitating effortless maintenance in tight production footprints while meeting the most stringent GMP requirements for mass-production environments.

TECHNICAL PARAMETERS

Model	GZL-1000
Throughput	1000g~2000kg/h
Roller Dimensions	φ360*240mm
Max.Roller pressure	65t
Total Power	70.45kW
Dimensions (L x W x H)	2955*3370*2875mm
Weight	6.5t

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