

## SPEC SHEET

# Roller Compactor

GZL-200H MODEL

### INTRODUCTION

The GZL-200H Roller Compactor is a premier solution for high-volume dry granulation in the pharmaceutical, nutraceutical, and chemical industries. Engineered specifically for materials that are moisture-sensitive, hygroscopic, or heat-labile, the GZL-200H transforms challenging powders into high-quality granules without the need for liquid binders or heat-intensive drying.

By significantly increasing bulk density and improving flow characteristics, the GZL-200H provides the essential foundation for high-speed downstream processes—including tablet compression, precision capsule filling, and high-efficiency sachet packaging.

**KEYWORDS** [Powder Compaction](#) | [Pilot Scale Roller Compactor](#) | [Continuous Granulation](#) | [Dry Granulation](#)



## ATTRIBUTES

- **Precision Multi-Stage Feeding System:** The GZL-200H features an advanced feeding architecture, utilizing a vertical and horizontal two-stage system equipped with a horizontal twin-screw feeder. Combined with a unique cantilever design, this system maximizes material adaptability and ensures industry-leading granulation success rates and consistent yields.
- **Superior Metallurgy & GMP Compliance:** Built for the most stringent regulatory environments, the GZL-200H is constructed from high-grade stainless steel, with all product-contact parts forged from 316 Stainless Steel. The rollers are crafted from specialized stainless steel and subjected to a proprietary hardening process, ensuring exceptional surface hardness and long-term wear resistance against abrasive formulations.
- **Advanced Thermal Management:** To protect the chemical stability of your product, the system incorporates integrated water-cooled rollers. Utilizing a negative-pressure water chiller, the GZL-200H ensures that materials remain at ambient temperatures throughout the compaction cycle, preventing sticking and preserving the delicate properties of your active ingredients.
- **Isolated “Clean-Zone” Architecture:** To ensure batch purity and operator safety, the drive section is completely isolated from the processing area. This enclosed “powder-to-granule” design eliminates dust migration and prevents cross-contamination. For rapid product changeovers, the unit is designed for tool-free disassembly and streamlined cleaning of all contact parts.
- **Smart Automation & Control:** Equipped with a sophisticated touchscreen HMI and multi-point automatic control technology, the GZL-200H offers unparalleled operational flexibility. Real-time monitoring and precise parameter control allow for repeatable results and full transparency in your manufacturing process.

## TECHNICAL PARAMETERS

<b>Model</b>	<b>GZL-200H</b>
<b>Production capacity</b>	120~400kg/h
<b>Partical size</b>	8-800
<b>Pressing roller size</b>	Φ200 x75mm

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<b>Maximum system pressure</b>	25MPa
<b>Maximum roller pressure</b>	18t
<b>Input power</b>	17.05kW
<b>Dimensions (L x W x H)</b>	1305 x 1450 x 1796mm
<b>Weight</b>	2300kg

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