

High Shear Granulation/Mixing Systems

For Wet Granulation and Mixing Processes

In-Wall GMP Design

- Reduced Processing Area Required
- No Hydraulic System or Motors in Processing Area
- Optional Stand-Alone Installation Available

Top Drive Advantages

- Easy Bowl and Blade Removal and Fixed Bowl Lid for Superior Cleaning, Maintenance, and Safety
- Vertical-Shaft Chopper for Improved Granulation

Processing Flexibility

- User-Defined Mixer and Chopper Speeds
- Optional Vacuum Drying for One-Pot Processing
- Optional Jacketed Bowl for Product Temp. Control

Designed for Granulation Suites

- Full Range of Product Charge and Discharge Systems
- Integrated Controls (with Optional Compu 4[®] System)

Removable Bowl

- Improved Cleaning and Maintenance
- Optional Additional Bowl for Quick Process Changeover

Validatable, Operator-Friendly Control System

- Compu 4[®] Available for Additional Data Management and Integration with Fluid Bed Dryers
- Automatic (Recipe Driven) and Manual Operational Modes
- Multiple End-Point Detection Parameters
 - Mixing Power, Granulation Time, Solution Delivery

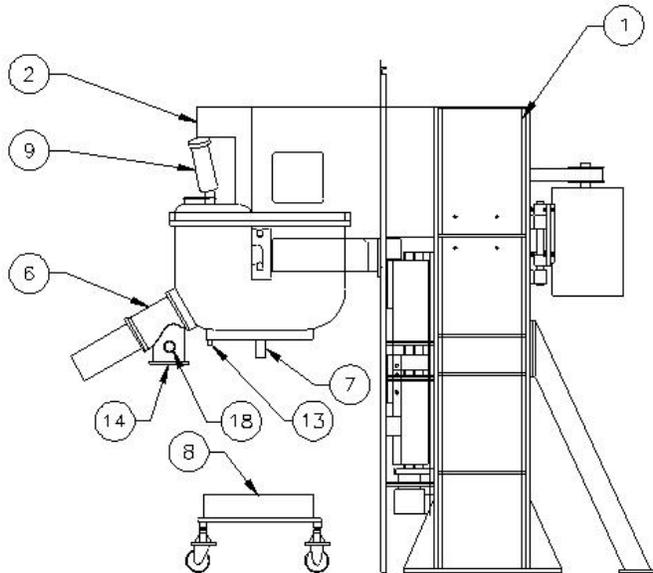
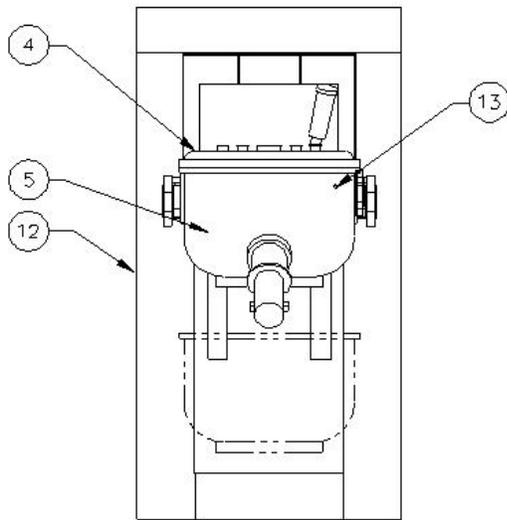
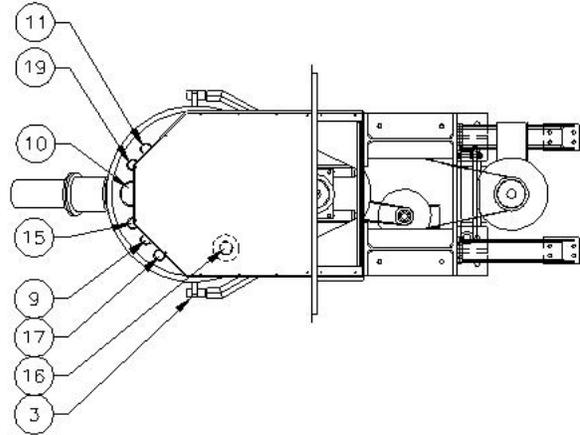


The GMX High Shear Granulator and Mixer is designed for efficient and homogenous wet granulation of powders to form a medium to high density granule. Its top-drive design allows for easy cleaning and maintenance, faster processing times, and superior user safety. Every GMX mixer is backed by Vector's comprehensive range of services, including product and process development, process scale-up and transfer, calibration and maintenance programs, and proactive project management. Engineered with the end-user in mind, the GMX family is the ideal solution for your wet granulation and mixing needs.

VECTOR CORPORATION

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1. Machine Frame
2. Machine Head
3. Lift Arm
4. Bowl Cover
5. Removable Bowl
6. Discharge Valve Outlet
7. Bowl Drain
8. Bowl Carrier
9. Bowl Filter
10. View Port or Product Fill Port
11. Solution Port
12. Wall Flange
13. Jacketed Bowl
14. Discharge Flange
15. Optional Bowl and Blade Wash Port
16. Optional Bowl Light
17. Optional Port Location
18. Optional Discharge Valve Wash Port
19. Optional Vacuum Load Port



GMX MODEL	BRIM VOLUME	WORKING CAPACITY
GMX-150	150 Liters	50-100 Liters
GMX-300	300 Liters	100-200 Liters
GMX-400	400 Liters	133-267 Liters
GMX-600	600 Liters	200-400 Liters
GMX-900	900 Liters	300-600 Liters
GMX-1200	1200 Liters	400-800 Liters

Providing equipment and processing solutions around the world since 1972, Vector is a subsidiary of Freund Corporation located in Tokyo, Japan. Globally, the Freund/Vector team has thousands of system installations in the pharmaceutical, healthcare, chemical, agricultural, and food industries.

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