

Monza key equipment list—sterile dose

Equipment (features / scale)		Prefilled syringes	Cartridges	Liquid vials	Lyophilized vials
Compounding	Jacketed tanks and disposable bag technology (1L–1200L) for all sterile forms.	•	•	•	•
Washing	Washing machine for vials (internal and external)			•	•
Depyrogenation	Tunnel (vials)			•	•
Component sterilization and drying	Autoclaves	• **	• **	•	•
	Dry oven (3m ³)			•	•
	E-beam	•	•		
Filling and stoppering	Vial filler			•	•
	PFS filler	•	•		
	Injecta line—multiple lines for flexible filling	•	•	•	
	Bosch Combi FXS line for flexible small-scale filling	•	•	•	
Lyophilization	Lyophilizers (2x37m ² , 2x33m ² , 4x40 m ²)				•
Capping	Vial capper / crimper			•	•
	External washer				•
Terminal sterilization	Autoclaves	•	•	•	
Inspection and packaging	Automated / semi-automated visual inspection system (up to 3,000 vials / hr, 24,000 PFS/hr)	•	•	•	•
	Fully-automatic visual inspection for liquids and lyo + HAS				•
	Printer			•	•
	Manual inspection	•	•	•	•
	Labeling machine			•	•
	Cartoning machine			•	•
	Casing machine			•	•

* Minimum and maximum batch sizes are not necessarily related to scale, batch size requirements are dependent on the project details.

** Ready to use (RTU) contact parts for prefilled syringes and cartridges

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