

## About Taylor-Wharton:

Taylor-Wharton International LLC is a world-leading technology, service and manufacturing network for gas applications involving pressure vessels and precision valves. Taylor-Wharton International LLC operates two complementary businesses from manufacturing, sales, warehouse and service facilities in six countries, on four continents, and markets its products in over 80 countries worldwide. Taylor-Wharton manufactures a complete line of state-of-the-art cryogenic liquid cylinders, MicroBulk and bulk tank storage systems. With worldwide operations, manufacturing facilities and strategic partners, Taylor-Wharton provides MicroBulk systems that deliver safety, quality and efficiency to health care, industrial and other business segments.

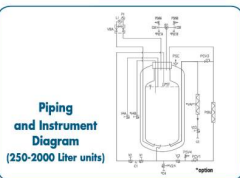
## Taylor-Wharton MicroBulk TANK SPECIFICATIONS

	MAWP	NER % capacity per day N2	Tank Diameter	Height <sup>1</sup>	Gross Capacity	Net Capacity (95%)	Empty Weight <sup>2</sup>	Pallet Dimension
Model	bar		mm	mm	liters	liters	kg	mm
MBC-250	24	1,60	700	1745	250	240	429	900x1000
	37	1,60			250	240	429	900x1000
MBC-500	24	0,92	850	2003	510	480	510	900x1000
	37	0,90			500	480	527	900x1000
MBC-1000	24	0,84	1100	2101	1000	950	738	1260x1430
	37	0,81			990	940	831	1260x1430
MBC-1500	24	0,80	1300	2179	1530	1450	945	1460x1500
	37	0,79			1510	1430	1103	1460x1500
MBC-2000	24	0,75	1300	2679	2070	1960	1111	1460x1500
	37	0,72			2050	1940	1308	1460x1500

<sup>1</sup> Height includes standard pallet  
<sup>2</sup> Empty weight includes pallet

## Piping and Instrument Legend

CI	INLET CONNECTION	V1	DISARMER
CO	GAZ OUTLET CONNECTION	V2	GAZ WINDRIVAL
CSA	CHECK CONNECTION	PU	PRESSURE BUILDING COIL
CSB	CHECK CONNECTION	PIV	PIV INSULATOR
PI	PRESSURE GAUGE	PIBA	PIBA SAFETY RELIEF VALVE
LI	LIQUID LEVEL GAUGE	PIBL	PIBA SAFETY RELIEF VALVE
V1	BOTTOM FILL / LIQUID WINDRIVAL	PIBA	PIBA SAFETY DISC
V2	TOP FILL	PIBD	PIBA SAFETY DISC
V3	PIV - ISOLATION VALVE	PS	SAFETY DISC
V4B	TRIGGER 90%	TRV	THERMAL RELIEF VALVE
V4B	TRIGGER 80%	TRF	TRF FUSELZER
V5A	DP GAUGE MANIFOLD		



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Since 1742

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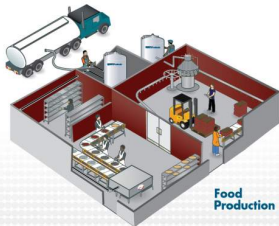
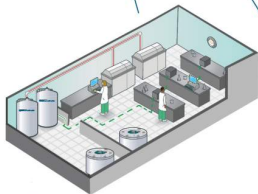
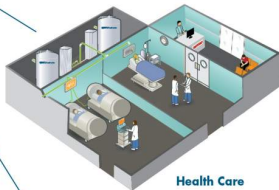
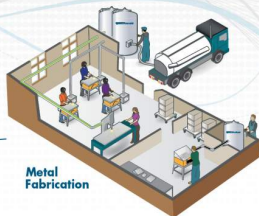
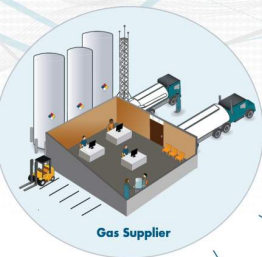
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# Taylor-Wharton MicroBulk Solutions



**5 years**  
vacuum  
warranty



- Argon
- Oxygen
- Nitrogen
- Carbon Dioxide

**On-site MicroBulk storage from Taylor-Wharton helps you maximize safety, quality and efficiency in your operations:**

- Eliminates cylinder handling.
- Reduces deliveries, invoices and administrative time.
- Dedicated containers eliminate potential contamination.
- Simplifies Inventory management.
- Increases operating efficiencies with constant on-stream supply, no unplanned down-time due to run-out.
- Eliminates cylinder change-outs which reduces costs, keeps skilled workers producing not changing tanks.
- Eliminates residual product returned in high pressure cylinders and liquid cylinders.
- Frees up valuable floor space formerly used for cylinder storage.
- Eliminates lost-cylinder costs.
- Eliminates emergency deliveries with telemetry solutions that monitor and report liquid content status and fill needs.
- Provides flexibility to easily add or remove MicroBulk tanks as needed to adjust for changes in storage volume.

**MicroBulk System Components:**

**Truck:** Taylor-Wharton's "Universal" fill system is compatible with all MicroBulk delivery trucks in service and available.

**MB Tank:** Quality and Reliability are built-in providing years of service.

**Tank Telematics:** Telemetry ready to keep you connected and informed.

**Why buy Taylor-Wharton MicroBulk?**

Because Taylor-Wharton knows cryogenics customers' needs and has provided quality products for over 50 years, the MicroBulk Product line features:

- Standard Sizes (250 – 2000 liters) and broad range of working pressures up to 37 bar.
- Quality Materials: Durable stainless steel, super insulated, digital gauges.
- Automatic fill shut-off: Functions with most MicroBulk delivery trucks.
- Reliable: Built to last, 5 year vacuum warranty.
- Telemetry Ready: Plug into your network or build new to suit.

**Applications:** There are hundreds of applications suitable for MicroBulk including but not limited to these:

Industries	Applications	Gas	Typical State
Bio-Technology	Sample Freezing	Nitrogen	Liquid
Electronics	Circuit board & component test chambers	Nitrogen	Liquid
Electronics	Semiconductor cleaning	CO <sub>2</sub>	High Pressure
Food	Packaging	Nitrogen	High Pressure
Food	Beverage Carbonation	CO <sub>2</sub>	High Pressure
Food	Packaging/Freezing	CO <sub>2</sub>	High Pressure
High Technology	Instrumentation	Nitrogen	High Pressure
Hotels/Institutions	Beverage Carbonation; Controlling Pools' pH Levels	CO <sub>2</sub>	High Pressure
Industrial	Cryogenic Cooling and Freezing	Nitrogen	Liquid
Industrial	Purging / Inerting	Nitrogen	High Pressure
Industrial	Cutting	Oxygen	High Pressure
Industrial	Oxidation Process	Oxygen	High Pressure
Industrial	High Speed Cutting	Nitrogen	High Pressure
Industrial	Laser Cutting/Welding	Argon	High Pressure
Industrial	Laser Cutting/Welding/Blanketing	CO <sub>2</sub>	High Pressure
Industrial	Laser Cutting	Nitrogen	Very High Pressure
Industrial	Carbon emission control; Foundry process control	CO <sub>2</sub>	Very High Pressure
Industrial	Specialty Steel & Metal Processing	Argon	High Pressure
Laboratory	ICP-MS, ICP-OES	Argon	High Pressure
Laboratory	Oxygen Enrichment	Oxygen	High Pressure
Medical/Health Care	MRI Magnet Cooling	Nitrogen	Liquid
Medical/Health Care	Respiratory Oxygen Delivery	Oxygen	Liquid
Medical/Health Care	Respiratory Oxygen Therapy	Oxygen	High Pressure