

# Quantum Technologies Inc.

## Laboratory Mixer/Reactors Parts List

### MARK VI Mixer/Reactor Platform

Specifications	Catalog No.
<b>Metallurgy:</b> Stainless Steel 316L <b>Voltage:</b> 208-220, 3-phase	100
<b>Metallurgy:</b> Stainless Steel 316L <b>Voltage:</b> 330-440, 3-phase	101
<b>Metallurgy:</b> Hastelloy C276 <b>Voltage:</b> 208-220, 3-phase	102
<b>Metallurgy:</b> Hastelloy C276 <b>Voltage:</b> 340-440, 3-phase	103

NOTE: Mixers with Hastelloy Metallurgy (Piping and Valves) have a Titanium shaft and rotor. A Hastelloy shaft and rotor are available on request, at a higher cost.

### MARK VI Mixing Bowls

Specifications	Catalog No.
Stainless Steel 316L 2 Liter	104
Stainless Steel 316L 4 Liter	105
Hastelloy C276 2 Liter	106
Hastelloy C276 4 Liter	107
Fluffing Bowl and Rotor for High Consistency studies	108
Lid Separator Plate	109
Teflon Coating of Bowl, Rotor, Lid Inner Surface, and Lid Separator Plate	110

### MARK VI Mixer Accessories

For all MARK II, III, IV, V, and VI Mixers

Type of Accessory	Product Name	Catalog No.
<b>Bowl Extensions</b>	Stainless Steel 3L Extension	311
	Stainless Steel 3L Extension Rotor	312
	Hastelloy 3L Extension	313
	Hastelloy 3L Extension Rotor	314
<b>Environmental Cold Traps</b>	Stainless Steel	315
	Hastelloy	316
<b>Upgrades</b>	pH Upgrade Kit	317
	Extra Injection Port Assembly	318
<b>Miscellaneous Accessories</b>	Pressurized Injector (Cap. 100mL)	319
	Pulp Evacuator	320

## Quantum Ozone Bleaching Equipment

For all MARK II, III, IV, V, and VI Mixers

Type of Equipment	Product Name	Catalog No.
<b>Ozone Generator Compression Systems</b>	Ozone Caddy, Includes Ozone Generator and Analyzer	400
	Ozone Cart, Single Cylinder, Includes Ozone Generator and Analyzer	401
	Ozone Cart, Dual Cylinder, Includes Ozone Generator and Analyzer	402
<b>Ozone Bleaching Accessories</b>	Mark V Upgrade Kit: Ozone Sequencer, Ozone Seal Kit, Lid Separator Plate, Lid Auto Valve, and Lid Injection Port	410
	Ozone Seal Kit: 2 Silicon Bowl O-Rings, 2 Teflon Bowl Seals, 8 Large Silicone Valve Seals, 8 Small Silicone Valve Seals, 1 Tube Krytox Lubricant	411
	Ozone Residual Traps	412
	Krytox Ozone Resistant Lubricant	413
	FV Extension and Rotor for 2L Bowl (Adds 3L of Free Volume)	414
	FV Extension and Rotor for 4L Bowl (Adds 3L of Free Volume)	415

## Quantum Mixer Replacement Parts

For all MARK II, III, IV, V, and VI Mixers

Type of Part	Product Name	Catalog No.
<b>Bowl, Rotor, and Shaft Related</b> When using ozone, Silicone Bowl O-Rings and Teflon Bowl Oil Seals are needed. These O-Rings and Seals can also be used in any bleaching stage. If no ozone is being used, Viton is suitable.	Bowl O-Rings (Silicone)	501
	Bowl O-Rings (Viton)	502
	Bowl Oil Seals (Teflon)	503
	Bowl Oil Seals (Viton)	504
	Clear Acrylic Lid	505
	Drain Screen (Stainless Steel)	506
	Drain Screen (Titanium)	507
	Injection Port (1/2" Titanium)	508
	Lid Gauge (Perma-Cal)	509
	Lid Screen (Stainless Steel)	510
	Lid Screen (Titanium)	511
	Millboard Bowl Spacer	512
	Rotor (Hastelloy, 2-Liter)	513
	Rotor (Hastelloy 4-Liter)	514
	Rotor (Stainless Steel, 2-Liter)	515
	Rotor (Stainless Steel, 4-Liter)	516

	Rotor (Titanium, 2-Liter)	517
	Rotor (Titanium, 4-Liter)	518
	Rotor Cap Screw (Stainless Steel)	519
	Rotor Cap Screw (Titanium)	520
	Shaft (Hastelloy)	521
	Shaft (Stainless Steel)	522
	Shaft (Titanium)	523
	Shaft Bearing	524
<b>Control Panel Related</b>	Fuse (ajt-20)	534
	Fuse (fngr-4)	535
	Fuse (kldr-4)	536
	Inverter (Magnetek)	537
	Heater Bands	549
<b>Heating System Related</b>	Temperature Controller (Fenwal)	550
	Temperature Controller (Love)	551
	Thermocouple	552
	Thermocouple Compression Fitting	553
<b>Hydraulic System Related</b>	Hydraulic Cylinder	554
	Hydraulic System Relief Valve	555
	Hydraulic Pump (Olidyne)	556
<b>Injection System Related</b>	Air Actuated Valve	560
	Injection Cylinder – End Flanges Set	561
	Injection Cylinder Mid Section (PVC)	562
	Injection Cylinder Piston O-Rings	563
	Injection Cylinder Piston with O-Rings	564
	Injection Cylinder Teflon Gaskets	565
	Injection Cylinder Viton Gaskets	566
	Injection Port Flange Gasket (Viton)	567
	Injection Port Flange Gasket (Teflon)	568
	Injection Port Nipple (1/2" Stainless Steel)	569
	Injection Port Pressure Plug (3/8" Stainless Steel)	570
	Injection Port Nipple (1/2" Titanium)	571
	Injection Port Pressure Plug (3/8" Titanium)	572
	Plug Valve (Hastelloy, 1/4")	573
	Plug Valve (Stainless Steel, 1/4")	574
	Solenoid Valve (3-way)	575
When using ozone, Silicone Bowl O-Rings and Teflon Oil seals are needed. These O-Rings and Seals can be used in any bleaching stage. If no ozone is being used Viton is suitable.	Valve O-Rings (Large, Silicone)	576
	Valve O-Rings (Small, Silicone)	577
	Valve O-Rings (Large, Viton)	578
	Valve O-Rings (Small, Viton)	579
	Valve O-Rings (Large, Silicone)	585
<b>pH System Related</b>	pH Chart Recorder	586
	pH Monitor (Foxboro)	587
	pH Compression Fitting	588
	pH Probe Blank	589

<b>Pressure Transducer Related</b>	Pressure Transducer (0-200psig, -57 C to 93 C	594
	Pressure Transducer (0-200psig, -40 C to 149 C)	595
	Pressure Transducer Nut and Coupling	596
	Pressure Transducer Digital Readout	597

**If you want to order any parts or have any questions, please contact:**

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