



# Mobius® Power MIX 1000, 2000, 2500 and 3000 Single-Use Mixers

High performance mixing technology and ergonomic design features

The **Mobius® Power MIX 1000, 2000, 2500 and 3000** combine high performance mixing technology with design features that make them easy to use. The impeller design and motor are based on our magnetically coupled NovAseptic® mixing technology, a proven mixing technology in stainless steel tanks. The system efficiently mixes the most challenging buffers, media and biopharmaceutical ingredients.



## Features and benefits:

- Powerful magnetically coupled impeller designed to efficiently mix the most challenging buffer, media and biopharmaceutical ingredients
- Broad working volume, from a minimum volume that is approximately 10% to 20% of the working volume with maximum volume of 10% over (size dependent) the working volume, for processing flexibility
- Doors that open to one half the mixer's diameter and easily accessible off-set drain for easy bag loading
- Optional integrated hoist for powder delivery (2000 L model only)
- Integrated load cells and temperature sensor
- Two in-process pH measurement options: Probe Port for easy insertion of a re-usable standard PG 13.5 threaded probe or installed, pre-calibrated and pre-sterilized Hamilton OneFerm® Single-Use pH Sensor
- Closed, sterile, and zero deadleg sampling directly from the mixing bag
- Backed by industry-leading technical support and services
- Addition of the 500 L extension onto the Mobius® Power MIX 2000 to create the 2500 and 3000 L sizes for added flexibility.

## Specifications

Description	1000 L	2000 L	Extension
<b>Carrier</b>			
Materials of construction			
Tank	304 L stainless steel	304 L stainless steel	304 L stainless steel
Stand	304 L stainless steel	304 L stainless steel	N/A
Latch	18–8 stainless steel	18–8 stainless steel	18–8 stainless steel
Legs	304 L stainless steel	304 L stainless steel	N/A
Dimensions L × W	56.88 × 54.28 in. (1444.6 × 1379 mm)	63.75 × 63.75 in. (1619.3 × 1619.3 mm)	63.75 × 63.75 in. (1619.3 × 1619.3 mm)
Height of Extension	N/A	N/A	13.1 in. (333 mm)
Height without hoist	77.84 in. (1977.5 mm)	89.72 in. (2279 mm)	100.8 in. (2560 mm) for 2500 L 111.8 in. (2840 mm) for 3000 L
Height with hoist	N/A	133.2 in. (3384 mm)	N/A
Weight with hoist and lids	N/A	(953 kg)	N/A
Weight with lids	1490 lb (676 kg)	1975 lb (895 kg)	N/A
Weight of extension	N/A	N/A	196 lb (88.9 kg)
Fluid volume in jacket (approx.)	5.6 gal (21.2 L)	8 gal (30 L)	N/A
Heat transfer area of jacket (approx.)	36.3 sq. ft (3.4 sq. m)	57.7 sq. ft (5.36 sq. m)	N/A
Maximum working pressure of jacket	150 psi (10.3 bar)	150 psi (10.3 bar)	N/A
Stainless Steel Jacketed Mixers ASME U-1 code stamped	optional	optional	N/A
Mettler-Toledo SWB505 MultiMount™ Load Cells (qty. 3)	standard	standard	N/A
Load Cell Ingress Protection Rating	IP 68	IP 68	N/A
Temperature Sensor JUMO	standard	standard	N/A
Storage temperature	0–40 °C (non-condensing environment)	0–40 °C (non-condensing environment)	0–40 °C (non-condensing environment)
Operating temperature	4–60 °C (non-condensing environment)	4–60 °C (non-condensing environment)	4–60 °C (non-condensing environment)

**Please note:** The Power MIX 2500 consists of the same base carrier as the Power MIX 2000 + one extension. The Power MIX 3000 consists of the same base carrier as the Power MIX 2000 + two extensions. The hoist is not an option when either one or two extensions are added to the base of the Power MIX 2000 carrier.

The following components are appropriate for the 1000 L, 2000 L, 2500 L, and 3000 L models.

<b>Motor</b>	
Weight lb (kg)	30.4 lb (13.8 kg)
Electrical (max)	0.55 kW
Design speed (max)	380 rpm
<i>Maximum operating speed has to be validated for each process and is dependent on volume, viscosity, etc.</i>	
Cable length	12 ft (3.65 m)
Ingress protection rating	IP 55
Regulatory information	CSA, CE, UL compliant
<b>Control Box</b>	
Materials of construction	304 L stainless steel
Weight lb (kg)	21 lb (9.5 kg)
Electrical	120 V, 60 Hz, 20 A or 230 V, 50 Hz, 10 A
Cable length in. (cm)	16 ft (4.9 m)
Ingress protection rating	IP 55
Regulatory information	CE, UL compliant
<b>Display Box (with temperature sensor and load cell display)</b>	
Materials of construction	304 L stainless steel
Weight	Permanently mounted to carrier
Electrical	120/230 Vac, 50/60 Hz, 1 A
Cable length in. (cm)	16 ft (4.9 m)
Ingress protection rating	IP 55
Regulatory information	CE, UL compliant

## Mixer Container Assembly Materials of Construction

Mix container	PureFlex™ or PureFlex™ Plus Film
Adapters	SterilEnz™ LDPE
Luer plugs	Kynar® Polyvinylidene Fluoride
Connectivity	CPC® Polysulfone
Tubing	Silicone
Pinch clamp	PVDF
Impeller	Neodymium magnets encased in polypropylene
Powder port	Polyethylene
TC gasket	Silicone
TC clamp	Nylon
TC end cap	Polypropylene
Cup	HDPE
Probe port	HDPE
O-ring	Silicone
Plug	Polypropylene
Needle-free sample port	HDPE
O-ring	Silicone

## Ordering Information

Description	Cert.	Top Ports			Bottom Port	Needle-free sample port	Probe port	Catalogue Number
		4 in. Powder port	¾ in.	1 in.	1 in.			
Mobius® Power MIX 1000 Assembly, PureFlex™ Film	Bronze	1	1	2	1	2	1	MXRA1000B1
Mobius® Power MIX 1000 Assembly, PureFlex™ Plus Film	Bronze	1	1	2	1	2	1	MXRA1000BPL1
Mobius® Power MIX 1000 Liner, PureFlex™ Film	Bronze	N/A	N/A	N/A	1	2	1	MXRL1000B1
Mobius® Power MIX 1000 Liner, PureFlex™ Plus Film	Bronze	N/A	N/A	N/A	1	2	1	MXRL1000BPL1
Mobius® Power MIX 1000 Assembly, PureFlex™ Film	Gold	1	1	2	1	2	1	MXRA1000G1
Mobius® Power MIX 1000 Assembly, PureFlex™ Plus Film	Gold	1	1	2	1	2	1	MXRA1000GPL1
Mobius® Power MIX 2000 Assembly, PureFlex™ Plus Film	Bronze	1	1	2	1	2	1	MXRA2000BPL1
Mobius® Power MIX 2000 Liner, PureFlex™ Plus Film	Bronze	N/A	N/A	N/A	1	2	1	MXRL2000BPL1
Mobius® Power MIX 2000 Assembly, PureFlex™ Plus Film	Gold	1	1	2	1	2	1	MXRA2000GPL1
Mobius® Power MIX 2500 Assembly, PureFlex™ Plus Film	Bronze	1	1	3	1	2	1	MXRA2500BPL1
Mobius® Power MIX 2500 Assembly, PureFlex™ Plus Film	Gold	1	1	3	1	2	1	MXRA2500GPL1
Mobius® Power MIX 3000 Assembly, PureFlex™ Plus Film	Bronze	1	1	3	1	2	1	MXRA3000BPL1
Mobius® Power MIX 3000 Assembly, PureFlex™ Plus Film	Gold	1	1	3	1	2	1	MXRA3000GPL1

**Please note:** All mixer assemblies are provided as one packs. Additional base bag configurations are available.

## Ordering Information

Description	Catalogue No.
<b>Mobius® Power MIX 1000 Carriers</b>	
1000 L jacketed carrier, temperature sensor, load cells, ASME cert.	MXRJ1000TLA
1000 L jacketed carrier, temperature sensor, ASME cert.	MXRJ1000TA
<b>Mobius® Power MIX 2000 Carriers</b>	
2000 L jacketed carrier, hoist, temp sensor, load cells, ASME cert.	MXRJ2000HTLA
2000 L jacketed carrier, hoist, temp sensor, load cells	MXRJ2000HTL
2000 L jacketed carrier, temp sensor, load cells, ASME cert.	MXRJ2000TLA
2000 L jacketed carrier, temp sensor, load cells	MXRJ2000TL
<b>Mobius® Power MIX Extension for 2500 and 3000</b>	
Mobius® Power MIX Extension	MXREXT500
<b>Mobius® Power MIX Electronics</b>	
Motor	MXRMTR2K
Control box, 120 V	MXRCTRLB2K
Control box, 230 V	MXRCTRLB2K2
Electrical power cords (country specific)	
North America, 120 V (15 A)	MXRPCNA1K2K
North America, 120 V (20 A)	MXRPCNA125
Europe, 230 V (10 A)	MXRPCEU
Argentina, Australia, Colombia, New Zealand, Paraguay, Uruguay	MXRPCAACNPU
Denmark	MXRPCDN
Israel	MXRPCIS
Chile, Ethiopia, Italy, 250 V (10 A)	MXRPCCEI
Bangladesh, Burma, Pakistan, South Africa, Sri Lanka	MXRPCBBPSS
Switzerland	MXRPCSZ
UK, Ireland	MXRPCUK

*Display box with temperature sensor and load cell displays is standard and provided with the carrier.*

Please note: With the exception of NA, two identical power cords must be purchased — one power cord for the removable Control Box and one power cord for the Display Box.

In NA, the two power cords that need to be purchased are MXRPCNA1K2K and MXRPCNA125.

### Spare Parts

Quick-connect coupling, male, ¾ inch NPT	MIXSST0109442
Quick-connect coupling, female, ¾ inch NPT	MIXSST0109441

For additional information,  
please visit [www.merckmillipore.com](http://www.merckmillipore.com)

To place an order or receive technical assistance,  
please visit [www.merckmillipore.com/contactPS](http://www.merckmillipore.com/contactPS)

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