

► MIXING SOLUTION

## NXTmix

Buffer Preparation And Product Contact Mixing Solution



**NXTmix is the next-generation levitation-based mixing technology designed to handle all your single-use mixing requirements from media & buffer preparation, intermediate process mixing, final formulation and filling application. Highly flexible and cGMP complaint system allows you to use volumes commonly used in manufacturing processes of up to 1000L.**

**The NXTmix system incorporates levitation technology for a single-use mixing system fitted into either a plastic tote with a trolley or stainless steel tanks. NXTmix offers complete flexibility with options to customize, providing users with easy mixing of powder-liquid or liquid-liquid applications.**

NXTmix is available in a wide range of volumes starting from 50L, 100L, 200L, 500L and 1000L which are suitable for various applications such as:

- Final Formulation
- Buffer Preparation
- Media Preparation
- Preparation of Semi-Finished Products
- Virus Inactivation
- Blending of Purified Intermediate Products

### MagLev Mixer

PharmNXT has developed a revolutionary mixer system that has no bearings to wear out or seals to break. Based on the principles of magnetic levitation, the mixer impeller is suspended, contact-free, inside a sealed cup and is driven by the magnetic field of the motor (Fig 1). The mixer impeller is fabricated from biocompatible (FDA, USP-VI, BSE/TSE and Animal free) gamma sterilizable polypropylene (PP).

With the lack of mechanical bearings, plus the self-contained mixer design, the risk of particle shedding is drastically reduced. The impeller and tank casing is designed creatively to increase mixing efficiency and reduce shear to allow gentle mixing for shear-sensitive products. The design is so robust that it allows us to manufacture higher-capacity systems with linear scalability. Ideal for regular bioprocessing and final formulation.

### Specifications Integrated Driver Unit

Voltage, Electrical Power: 24 VDC  $\pm$ 10%,  
Housing: Epoxy coated Alu. and PP  
IP Rating: IP65  
Interfaces: PLC (analog and digitalin/outputs)  
Rs485 with Modbus RTU protocol

### Specifications NXTmix with load cell/ without load cell

MOC: Stainless steel 304  
Finish: External - Matt finish Ra  $\leq$  1.2  $\mu$ m  
Internal-Matt finish Ra  $\leq$  0.8  $\mu$ m  
Jacket Type: Dimpled jacket  
Jacket design pressure: 6 bar  
Wheel: Heavy-duty PU castor wheels with swivel and locking

### Single-Use Impeller (Mixer) Multipack

Wet Material: Polypropylene (FDA, USP Class VI, BSE/TSE/Animal free)  
Wet Surface: 131 cm<sup>2</sup>  
Typical Max. Mixer Tank: 200 Liters  
Max. Speed: 1600 rpm  
Max. Torque: 60 Ncm  
Max. Power: 101 W mechanical power  
Sterilization Methods: Gamma radiation with up to 40 kGy



## Ordering Information

### NXTmix

Sr. No	Part No.	Detail Discription	Dimensions (W × D × H) mm	Weight (Kg)
<b>NXTMIX-50L</b>				
1	NXTMIX-50SS-NN	50L Mixer Non-Jacketed without load cell	726 x 679 x 1158	81
2	NXTMIX-50SS-CN	50L Mixer Non-Jacketed with load cell	725 x 679 x 1158	86
3	NXTMIX-50SS-NJ	50L Mixer Jacketed without load cell	830 x 595 x 1219	121
4	NXTMIX-50SS-CJ	50L Mixer Jacketed with load cell	830 x 595 x 1219	126
<b>NXTMIX-100L</b>				
5	NXTMIX-100SS-NN	100L Mixer Non-Jacketed without load cell	605 x 585 x 1305	89
6	NXTMIX-100SS-CN	100L Mixer Non-Jacketed with load cell	605 x 585 x 1293	94
7	NXTMIX-100SS-NJ	100L Mixer Jacketed without load cell	846 x 650 x 1297	182
8	NXTMIX-100SS-CJ	100L Mixer Jacketed with load cell	846 x 650 x 1286	187
9	NXTMIX-200SS-NN	200L Mixer Non-Jacketed without load cell	726 x 700 x 1274	110
10	NXTMIX-200SS-CN	200L Mixer Non-Jacketed with load cell	725 x 700 x 1263	115
11	NXTMIX-200SS-NJ	200L Mixer Jacketed without load cell	969 x 770 x 1367	244
12	NXTMIX-200SS-CJ	200L Mixer Jacketed with load cell	969 x 770 x 1356	249
<b>NXTMIX-650L</b>				
13	NXTMIX-650SS-NN	650L Mixer Non-Jacketed without load cell	1007 x 971 x 1592	179
14	NXTMIX-650SS-CN	650L Mixer Non-Jacketed with load cell	1004 x 971 x 1578	184
15	NXTMIX-650SS-NJ	650L Mixer Jacketed without load cell	1264 x 1035 x 1688	461
16	NXTMIX-650SS-CJ	650L Mixer Jacketed with load cell	1264 x 1035 x 1677	466
<b>NXTMIX-1000L</b>				
17	NXTMIX-1000SS-NN	1000L Mixer Non-Jacketed without load cell	1123 x 1106 x 1744	261
18	NXTMIX-1000SS-CN	1000L Mixer Non-Jacketed with load cell	1123 x 1106 x 1744	264
19	NXTMIX-1000SS-NJ	1000L Mixer Jacketed without load cell	1380 x 1170 x 1837	599
20	NXTMIX-1000SS-CJ	1000L Mixer Jacketed with load cell	1379 x 1170 x 1836	604





## Ordering Information Integrated Driver Unit

Sr. No.	Part No.	Description
<b>50L to 200L mixer</b>		
1	NXTDRV-LEV-11	Basic MagLev Drive unit
2	NXTDRV-LEV-12	MagLev Drive unit with Temperature sensor
3	NXTDRV-LEV-13	MagLev Drive unit with pH and Conductivity sensor
4	NXTDRV-LEV-14	MagLev Drive unit with Temperature, pH and Conductivity sensor
<b>400L to 1000L mixer</b>		
5	NXTDRV-LEV-21	Basic MagLev Drive unit
6	NXTDRV-LEV-22	MagLev Drive unit with Temperature sensor
7	NXTDRV-LEV-23	MagLev Drive unit with pH and Conductivity sensor
8	NXTDRV-LEV-24	MagLev Drive unit with Temperature, pH and Conductivity sensor



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