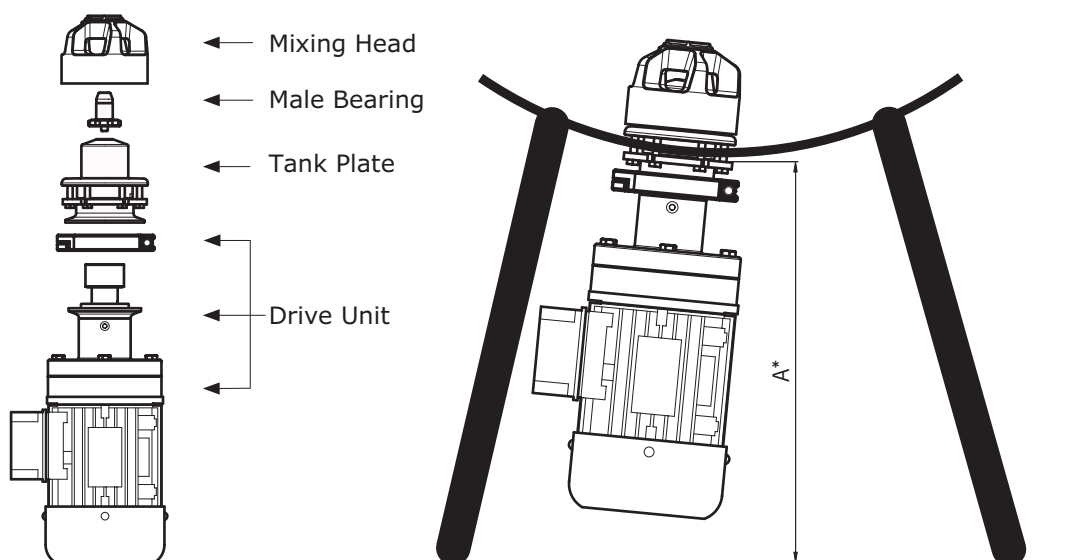


Specification Sheet

# NovAseptic® Mixer, Mixer Assembly, USM

## Product Description

The NovAseptic® mixers offer a complete solution for mixing throughout the process line and are designed for a wide variety of mixing applications in the pharmaceutical and biotechnology industries.



## Assembly Recommendation

Mixer model	Mixing Head	Male bearing	Tank Plate	Drive Unit	A* mm (in.)	Surface Finish/ Bearing Material
USMT10	G10-015	GM05/24EP	GM05/33	USM10/4XS-N	380 (14.96)	<b>Surface Finish</b>
USMT60	G10-012	G20-008EP	G30-009	USM60/4XS-N2	500 (19.69)	Tank Plate: Grinded and manually polished mixing head, Male bearing: Grinded and electropolished
USMT260	G10-011	GM50300/24EP	G30-011	USM260/4XS-N2	630 (24.80)	<b>Bearing Material:</b> Silicone carbide (SiC)

\* Minimum distance to dismount the drive unit

## Specifications

Net Weight (approximate)			
Mixer Assembly	USM T10	USM T60	USM T260
Weight kg (lb)	6.5 (14.3)	17 (37.5)	66 (145.5)

Max Tip Speed (m/s)			
Mixer Assembly	USM T10	USM T60	USM T260
Max Tip Speed* (m/s)	4.7	10	13

\* Tip speed at mechanical limit

Shear Quota (s-1)			
Mixer Assembly	USM T10	USM T60	USM T260
Shear Rate** (s-1)	240	360	360

\*\* Shear rate at mechanical limit

Recommended Mixer Assembly Parts		
	USM—Catalogue Nb.	Specification Sheet—Lit. Nb.
Mixing Head	G10-#	SP1193EN00
Male Bearing USM T10, USM T60, USM T260	G20-008EP, GM05/24EP, GM50300/24EP	SP1194EN00
Tank Plate (Welded) USM T10	GM05/33	SP1033EN00
Tank Plate (Welded) USM T60	G30-009	SP1153EN00
Tank Plate (Welded) USM T260	G30-011	SP1191EN00
Tank Plate (Flanged) & Welding Flange USM T60, USM T260	G30-0## & GM#/393	SP1195EN00
Drive Unit	USM###/4XS-N#	SP1196EN00

Recommended Accessory and Spare Parts		
	USM—Catalogue Nb.	Specification Sheet—Lit. Nb.
Attractor: USM T10, USM T60	GT05/AW, GT60/AW	SP1178EN00
Female Bearing for Mixing Head: USM T60 and USM T260	G11-#	SP1193EN00
Female Bearing for Mixing Head: USM T10	GM051FBE-SP322	SP1193EN00
Tightening Tool for Female Bearing: USM T60 and USM T260	G93-#	SP1197EN00
Tightening Tool for Female Bearing: USM T10	GM051/15-TFB	SP3567EN00
Multi Tool for Mixing Head and Male Bearing: USM T60 and USM T260	G93-#	SP1201EN00
Welding Tool Tank Plate Heatsink: USM T60 and USM T260	G94-#	SP1179EN01

Additional Information	
Ambient Temperature*	-15 to 40 °C (5 to 104 °F)
Operating Temperature*	5 to 135 °C (41 to 275 °F)
Specification Sheet	Further information is available on the specification sheet of each NovAseptic® mixer assembly part.
Quality Control	The quality assurance system guarantees the control and traceability at all stages of the manufacturing.
Options	For non-standard NovAseptic® mixer options, please contact your local sales representative for further information.

\* The NovAseptic® mixer may have different design temperature and/or pressure limits. The weakest component in the assembled product determines the maximum permitted design temperature and pressure limits.

## Technical Assistance

For more information, please visit [SigmaAldrich.com](https://www.SigmaAldrich.com) for up-to-date worldwide contact information

