

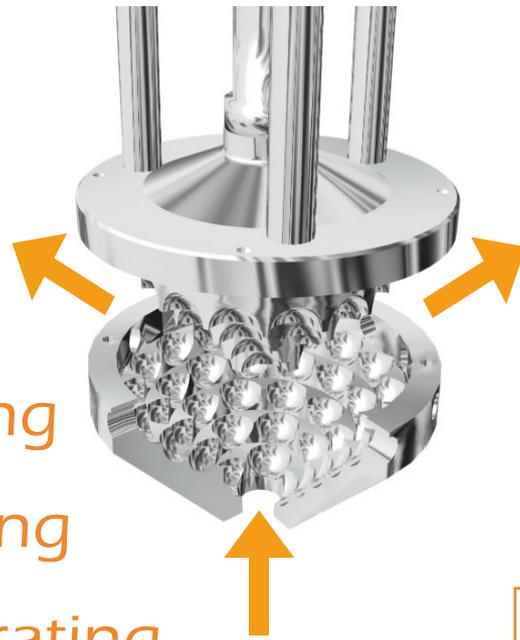
FDM
Technology

DISTROMIX B

**lab batch
mixer range**



- Dispersing
- Homogenising
- Rapid blending
- De-agglomerating
- Emulsifying
- Reacting
- Powder addition



DB25E+DB50E High Shear Lab Mixers

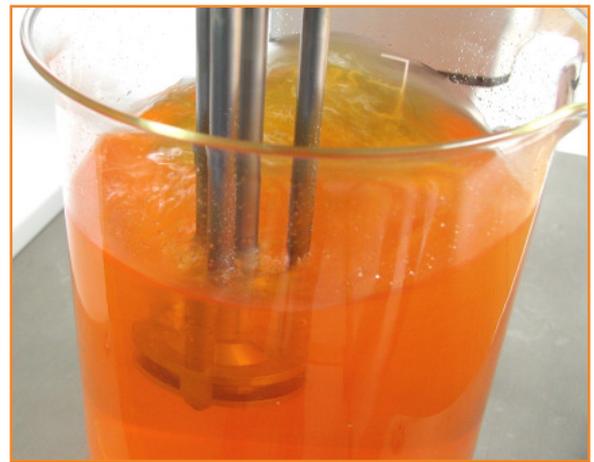
The DB25E and DB50E range of rotor-stator high shear mixers use Maelstrom's patented Fluid Division Mixing (FDM) technology to deliver exceptional levels of performance for laboratory mixing.

The unique rotor and stator geometry develops strong hydraulic shearing actions in the mixing head. These give increased levels of mixing energy and micro-scale blending actions in the fluid, when compared to conventional rotor-stator mixers.

Conveniently integrated with an electric lift column, simple user controls and dual data displays, the DB25E and DB50E provide exceptional performance in a versatile package.

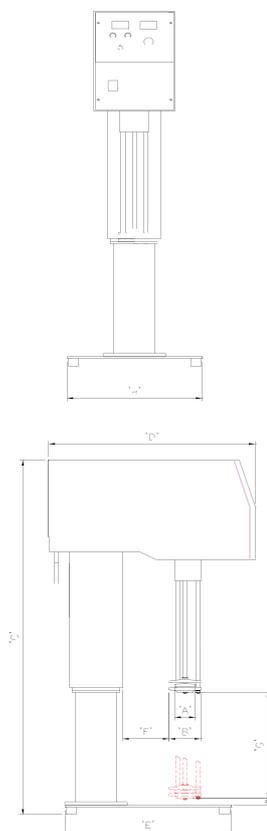


- intense shearing action
- high speed (to 14,400rpm)
- simple controls
- electric lift action
- easily cleanable
- interchangeable heads
- versions for abrasives



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mixer range



		DB25E	DB50E
Typical Dimensions	mm		
A		25	50
B		41	76
C		810	1000
D		520	500
E x e		400 x 325	400 x 325
F		180	110
G		250	250
Weight	kg (lbs)	36 (80)	45 (100)
Typical maximum mixing volume at low viscosity (e.g. water)	litres	5	10
	gals	1.5	2.5
Typical maximum mixing volume at high viscosity (e.g. thick cream)	litres	2	4
	gals	0.5	1
Viscosity range (approx.)	Pa.s (cP)	0.0001 (0.1) - 30 (30,000)	
Motor power range (standard*)	kW (hp)	0.37(0.5)	0.75(1)
Rotor speed (typical max.)	rpm	14400	6000

*Larger and non-standard motors available on request

Typical Construction Materials



316 stainless Toolsteel Zirconia ceramic



DB25E shown fully lowered (above) and fully raised (below)



Details

Mixing head configuration	Standard: 2/3 (2 cavity rows on stator, 3 on rotor) Options: 3/4 and 4/4 heads available
Construction materials	<u>Wetted parts</u> - 300 series stainless steel standard (other materials such as titanium, HASTELLOY® and ceramics are available on request) <u>Bearings</u> - lower polymer bush (FDA-approved material) upper rolling element bearings standard. Note that the standard mixer must NOT be run dry. <u>Base and Housing</u> - stainless steel baseplate, painted steel housing with stainless steel front panel
Controls	- Mains on/off - Start / stop pushbuttons - Electric lift raise/lower switch - Speed & load displays - Speed control potentiometer
Electrical supply	120V or 220-240V, 50/60Hz, single phase supply to controller
Options	<u>Hygienic</u> - to meet the requirements of cGMP and other standards <u>ATEX-compliance</u> - please note that these units will not meet ATEX requirements - a manual lift version should be used instead - please consult Maelstrom for further details.

The physical and performance specifications in this leaflet are not intended for accurate sizing and selection of machines. Please contact Maelstrom APT or its agents directly for a selection appropriate to any particular mixing application. HASTELLOY® is a registered trademark of Haynes International Inc.



First Floor, 59-61 High Street West,
Glossop
Derbyshire SK13 8AZ, England
Tel > +44 (0)1457 867777
Fax > +44 (0)1457 862207
email > sales@maelstrom-apt.com
web > www.maelstrom-apt.com

Authorised Distributor: INDIA

Chempro Technovation Pvt. Ltd.
3 Sukhshine Complex, Sunrise Park
Ahmedabad 380054, Gujarat, India
Tel > +91-079-26851135
Fax > +91-079-26851154
web > www.chempro.in