

FDM
Technology

DISTROMIX C

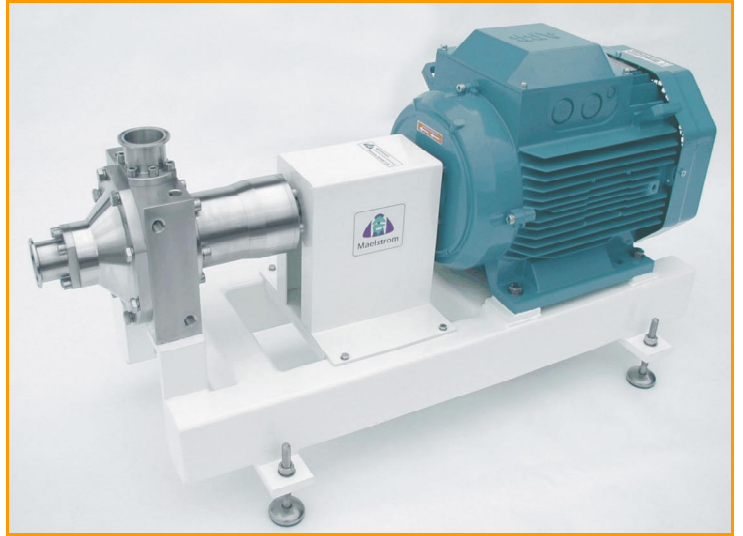
**inline
mixer range**



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

DC Inline High Shear Mixers

The DC range of high shear mixers offers increased performance over traditional high shear mixers in terms of droplet and particle size reduction whilst also being more robust and easier to maintain. Based on Maelstrom APT's patented Fluid Division Mixing (FDM) technology, DC mixers develop strong internal



turbulent hydraulic shearing actions to create fine dispersions and deagglomerations in a very wide range of industrial applications. With its exceptional blending performance and the ability to dose fluids directly into the mixing head, the Distromix C provides a simple and flexible solution for today's high shear processing needs.

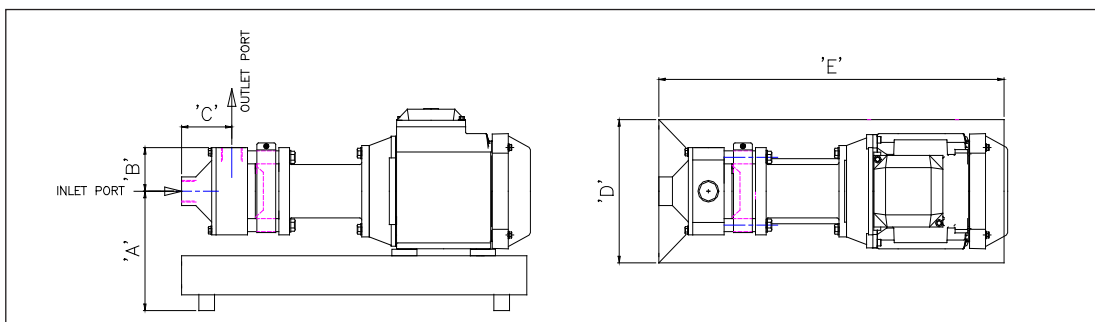
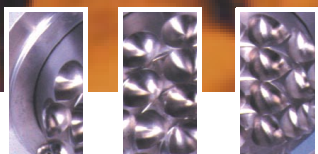
"intensive inline high-shear mixing for faster, better results"



- Range of different mixing head configurations with selectable numbers of cavity rows to suit individual applications
- Dosing - dosing injectors can be fitted to the stator for multi-stream injection directly into the mixing head and optimum blending
- Simple, rugged construction and easy maintenance
- Rotor and stator can be made from very hard materials - suitable for abrasive applications

High shear
Configurable
Rugged
Efficient

inline mixer range



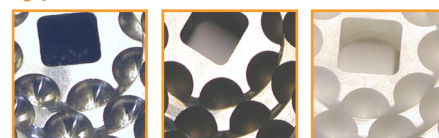
		DC50	DC75	DC100	DC125	DC150	DC175	DC200
Typical Dimensions	mm							
A		145	165	190	210	260	280	300
B		50	65	85	105	125	145	165
C		55	65	85	105	110	120	145
D		200	220	380	430	500	550	600
E		450	550	700	870	1080	1250	1400
Port sizes (bore diameter)	mm (inch)	20 (3/4)	25 (1)	40 (1.1/2)	50 (2)	60 (2.1/2)	65 (2.1/2)	75 (3)
Weight	kg	20	36	65	140	255	385	440
	lbs	44	80	145	310	560	850	970
Maximum flowrate at low viscosity (medium-energy setup, 3600rpm, 1cP)	tonne/hr	1.4	5	10	22	40	60	80
	GPM	6	22	44	97	175	265	350
Viscosity range (approx.)	Pa.s (cP)	0.0001 (0.1) - 50 (50,000)						
Motor power range (standard*)	kW	1.1	2.2	4	11	22	30	45
	hp	1.5	3	5	15	30	40	60
Rotor speed (typical max.)	rpm	6000			3600			
Approvals / Certification (standard)		CE marking (Europe), UL/ASME components (US) + others						
*Larger and non-standard motors available on request								

Options

Mixing head configuration	Standard: 4/4 (4 cavity rows on stator, 4 on rotor) Options: 3/4 and 2/3 heads available
Construction materials	Wetted parts - 300 series stainless steel standard (other materials such as titanium, HASTELLOY® and ceramics are available on request) Mounting - stainless steel or painted structural steel base
Seals	- Single or double mechanical seals (with flushing systems) - Gland packing
Ports	- ANSI 150, 300 - Triclamp, RJT, IDF, 3A hygienic - BSP threaded
Dosing injectors	A range of dosing injectors and metering pumps are available for direct dosing of multiple input streams into the mixing head
Clean-in-place / Hygiene	3A-compatible with additional CIP injection ports around seal
Drives (note that mixers are supplied without drives as standard)	- Electric motors to any IP rating - EExd and explosion proof motors - Air motors - Painted or stainless steel finishes - AC inverters or DC control systems

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.

Typical Construction Materials



316 stainless Toolsteel Zirconia ceramic



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