

INTEGRIMIX BP

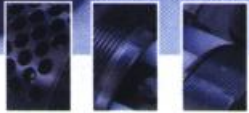
The Integrimix BP range of high performance portable batch fluid mixers offers a unique combination of benefits to users who are looking to improve mixing performance and efficiency in batch processing. Based on patented Integral Pump Mixing (IPM) technology, Integrimix BP combines different fluid stress mechanisms and integrated positive displacement pumping to deliver exceptional dispersive and distributive mixing over a very wide viscosity range.

INTEGRIMIX BP



“A new breed of high performance fluid mixers”

portable
batch
mixer range



Emulsifying
Homogenising
Dispersing
Reacting

- Highly intensive processing for improved dispersion - up to 10x specific mixing energy is delivered compared to conventional rotor/stator machines - increased specific energy is directly related to decreased droplet and particle sizes
- Integral positive displacement pumping allows a wide viscosity range to be processed and provides a self-cleaning action
- Flexibility - wide range of sizes and mounting options
- Zero normal aeration (deliberate aeration possible)
- Highly configurable to suit a wide range of duties using optional chutes, impellers and vortex generators and eliminators.
- Relatively safe - standard machines have no exposed moving parts



10x Energy*

Faster mixing

Scalable

Flexible

Cost-effective



* (compared to equivalent-sized "high-shear" mixers)

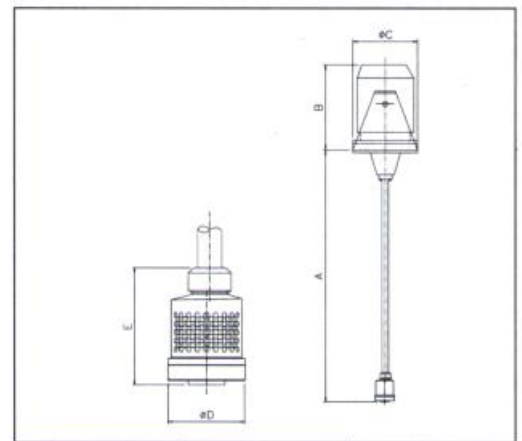
Mounting Options



Hoist

Clamp

Flange



40 Series 60 Series 100 Series

Typical Dimensions (for medium-energy machines)		mm		
A	(>1200mm may require a steady)	250-1000	550-1500	800- *
B		235-245	245-500	500-1210
C		200	200-350	350-800
D		62	90	140- *
E		110	140	270- *
Maximum flowrate (base configuration)	tonnes/hr	0.5	5	20
Maximum flowrate (with optional High-Flow pack)	tonnes/hr	2	20	200
Viscosity range	Pa.s (cP)	10 ⁻⁴ (10 ⁻¹) - 10 ² (10 ⁵)		
Motor power range (standard sizes [†])	kW (hp)	0.5 (0.75) - 1.1 (1.5)	1.1 (1.5) - 11 (15)	15(20) - 250(330)
Motor speed (typical maximum)	rpm	1500	1500	1500
Mixer nozzle size range (typical)	mm	0.5 - 1.5	1.0 - 5.0	2.5 - 8.0
Construction materials (standard)				
Wetted metal parts		316 stainless steel		
Vaness		acetal copolymer		†
Internal bearings		polymer		†
Mounting & supports		painted structural steel		

* Dimensions of larger sizes are available on request
 † Larger and non-standard motors available on request
 ‡ Application dependent

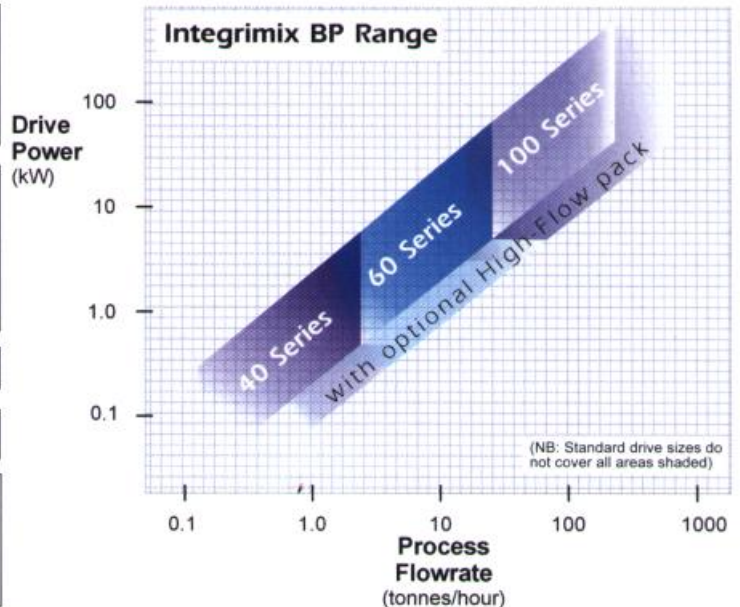
inline
mixer range



Options

Construction materials	
wetted parts (incl. vanes & bearings)	Hardened stainless, toolsteels, titanium, ceramics, polymers, etc.
non-wetted parts	316 stainless steel, aluminium, etc.
High-Flow pack	A configured solution for each particular flow requirement, selected from: - external impellers - vortex generators and eliminators - powder feed chutes - eductor nozzles
Bearings	Externally-mounted rolling element bearings
Seals	Single or double mechanical seals
Drives	- Electric motors to any IP rating - EExd and explosion proof motors - Air motors - Painted or stainless steel finishes - AC inverters and 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.



Maelstrom
Advanced Process Technologies

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

