

diamix®

Dissolver and Disperser

Worldwide Expert in
Mixing Industry



dyna - Your specialising partner in mixing, milling and dispersion

Over the 20 years of supply and development, today's Dyna has achieved very high strength and capability in supplying sophisticated mixer/disperser to serve the chemical-technical processing industry, especially the paint, varnish and printing ink sectors.

Dyna is the one stop solution for paint and ink industries right from the plant design, machines fabrication and supply, chemicals supply, and finally the technical support. We have very strong technical teams to provide customers support and after sales services.

diamix® spare parts are available at all time and can be ordered quickly and easily through email to any of our sales offices.


diamix® - High Speed Dissolver

diamix® has a series of high speed dissolver specially designed and built for industrial production lines and production cycles. They are successfully used in many different industries and production fields, such as the paint industry, printing industry, ink production industry, petrochemical industry, chemical industry, biochemical industry, mining industry, paper production industry, food industry, water treatment industry and the fine chemical industry.

We produce high quality dispersers for wet dispersing and mixing liquid-solid materials and is designed for long lasting lifetime and reliable performance and quality.



Features:

- Dispersing gear shaft can be lifted and lowered with the pneumatic or hydraulic built in system.
- Safety cut-out switch built into the column with adjustable high to match the container height in order to ensure the mixing unit cannot be raised above the container edge during operation.
- Arm lift system operation stable and flexible, it can be rotated to any angle within 360° (for Platform Type only).
- Dispersing gear shaft and the main parts are made of stainless steel.
- Designed for premium quality to guarantee a long life span and reliable everyday performance.
- Runs stable with low noise.
- Variable speed control for flexible operation.
- Suitable for different viscosity of the mixed materials.
- Spreading blade can be adjusted to any materials requirements to prevent materials from drifting outside container.
- Build in inverter/frequency conversion.
- With option - Our selected electronic component and motors are specifically complying for hazardous location, preventing any sparks within the motor or electronic component from igniting external.
- Our selected equipments are satisfied with **CE - ATEX** -  (optional)
- Dissolver clamp is optional (for Standard Type only).



High Speed Dissolver (Standard Type) *diamix*[®]

◆ DMB-1000

Model		DMB-1000-05	DMB-1000-10	DMB-1000-20
Main Motor	HP	5	10	20
Speed	RPM	0 - 1500		
Capacity	ltr	50 - 500	100 - 1000	
Lifting Height	mm	1000		
Dimension (L/W/H)	mm	1910 x 500 x 1870		

Data above provided for reference purpose only. Company reserve the right to change or modify any particular info without prior notice.

◆ DMB-1300

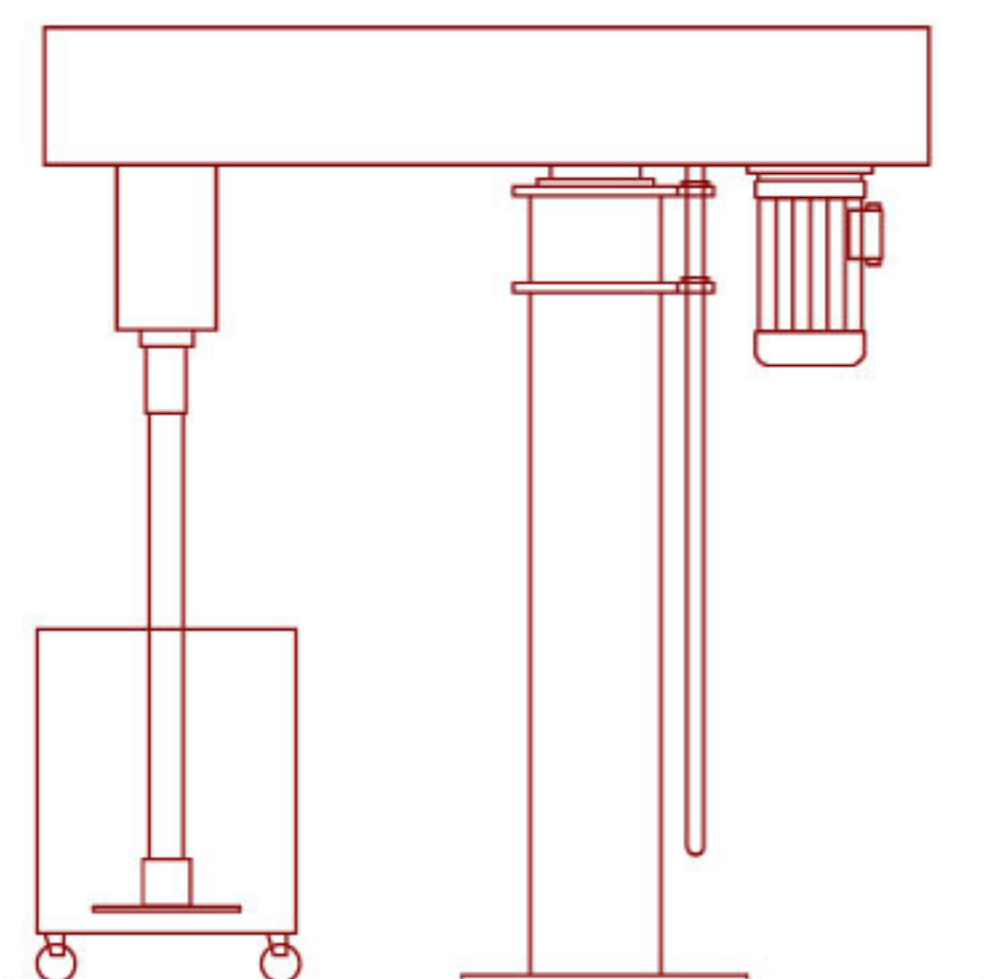
Model		DMB-1300-20	DMB-1300-30	DMB-1300-40	DMB-1300-50	DMB-1300-60
Main Motor	HP	20	30	40	50	60
Speed	RPM	0 - 1500				
Capacity	ltr	100 - 1000	100 - 1500		300 - 2000	
Lifting Height	mm	1300				
Dimension (L/W/H)	mm	2170 x 600 x 2110				

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◆ DMB-1600

Model		DMB-1600-50	DMB-1600-60	DMB-1600-75
Main Motor	HP	50	60	75
Speed	RPM	0 - 1500		
Capacity	ltr	1000 - 1500		2000 - 3000
Lifting Height	mm	1600		
Dimension (L/W/H)	mm	2280 x 800 x 2560		

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Standard Type

diamix[®] standard type dissolver is a floor type dissolver designed for dispersing and pre-mixing product in mobile containers. Our dissolver is available with or without container-fastening device to suit the customer's need.

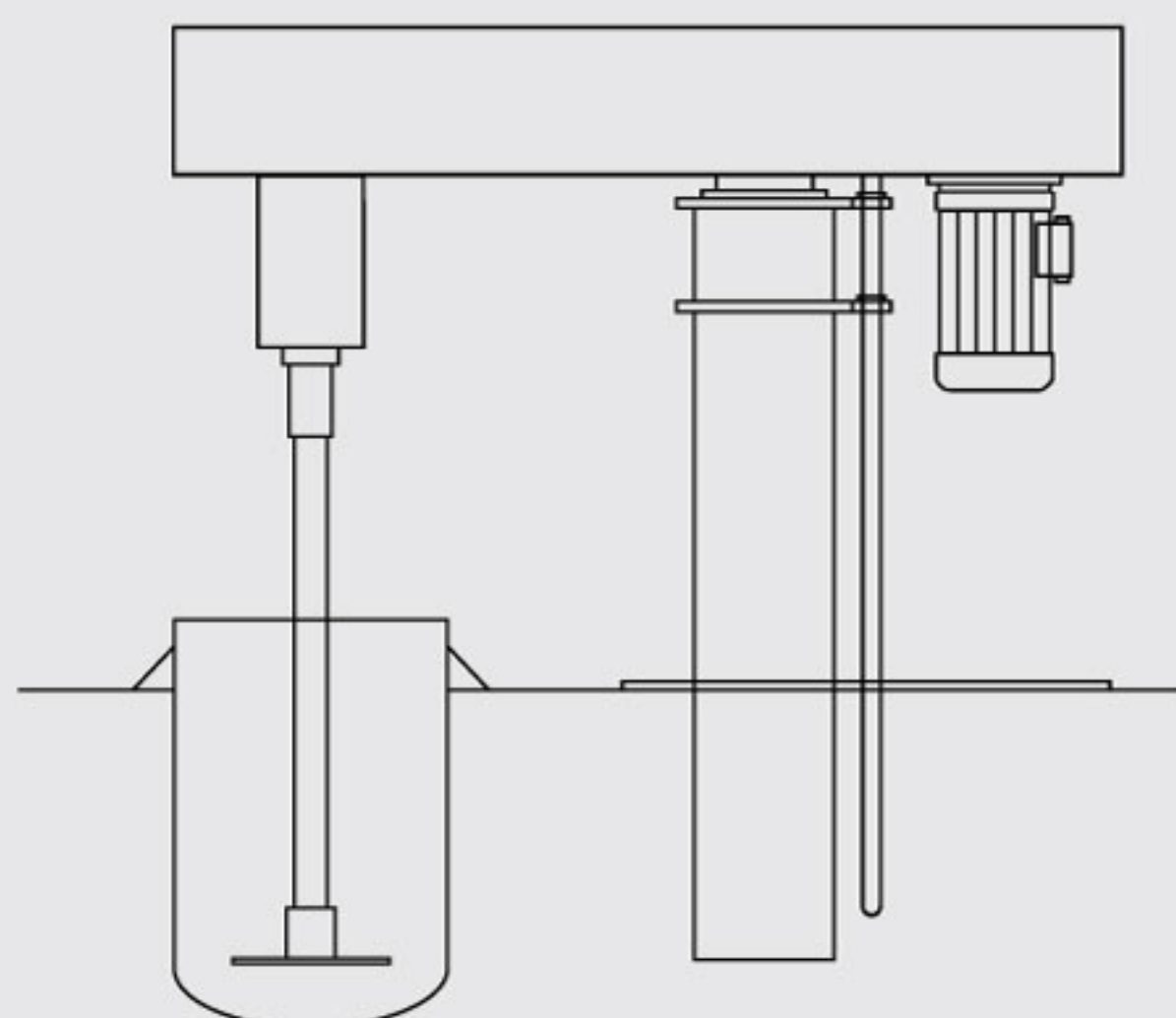
We supply dissolver machine ranging from 5HP to 100HP with the lifting height of 800mm to 1600mm, production capacity up to 1500-3000 litres per batch is achievable.

Additional Technical Specification

Various optional additional technical specifications available for selection:

- Fully-Explosion Proof (E)
- Dissolver Clamp (C)
- Lid (L)

High Speed Dissolver (Platform Type) *diamix*[®]

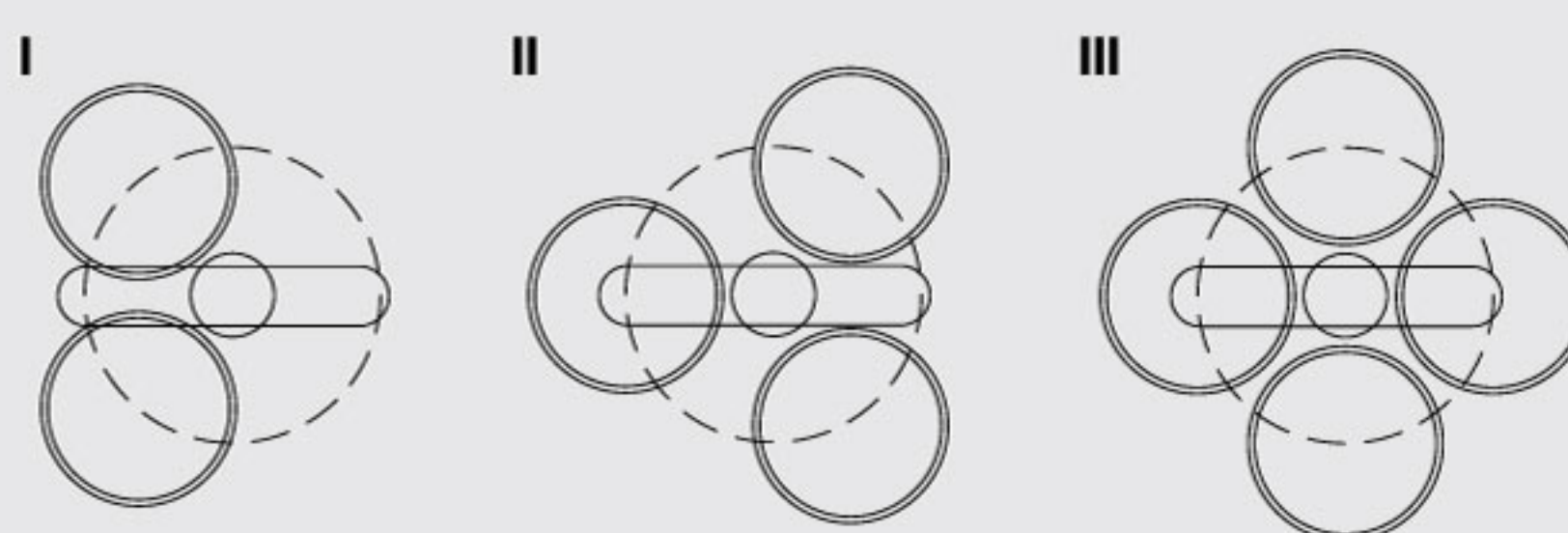


Platform Type

diamix[®] platform type dissolver is designed for mass-production of products. It can be operated rotationally in 2, 3 or 4 stationary containers stably on a steel platform.

We provide expertise technical team to design and built the platform plant to meet the factory and customer's requirement.

Option of Tank Arrangement



Model Specification:

◆ DMBP-1600

Model		DMBP-1600-50/60	DMBP-1600-75/100
Main Motor	HP	50 / 60	75 / 100
Speed	RPM	0 – 1200	
Capacity	ltr	1500 / 2000	2200 / 3000
Lifting Height	mm	1600	

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◆ DMBP-2000

Model		DMBP-2000-100/125	DMBP-2000-125/150
Main Motor	HP	100 / 125	125 / 150
Speed	RPM	0 – 1200	
Capacity	ltr	3000 / 4000	4000 / 5000
Lifting Height	mm	2000	

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Additional Technical Specification

Various optional additional technical specification available for selection:

- (E) Fully-Explosion Proof •
- (L) Lid •

diamix® Twin Shaft Butterfly Dissolver

Features:

- Industrial dissolver with dispersion blade.
- Function for mixing and dispersing of materials ranging from low to high viscosity well depending on the model you choose to meet your production requirements best.
- Combination of butterfly blade and high speed shear disc blade allows kneading and dispersion to achieve the maximum efficiency within a short period.
- Easy handling.
- The double rotary motion of the mixing elements covers the entire mixing zone and guarantees optimal dispersion.
- The revolving wall/floor scraper support the mixing/kneading process and providing good heat release towards the tank wall.
- Processing of products with very high viscosities.
- Extremely short mixing times for high quality results.

Application:

- Suitable for viscous printing inks, adhesive agents, putties, fillers and litho inks.



Model Specification:

Model		DMBT-1000-10-15	DMBT-1000-20-30	DMBT-1300-40-60
Butterfly Motor	HP	15	30	60
Speed	RPM	0 – 88		
Disperse Motor	HP	10	20	40
Speed	RPM	0 - 1500		
Capacity	ltr	250	500	1000
Lifting Height	mm	1000		1300
Dimension (L/W/H)	mm	2410 x 1000 x 2460		2550 x 1200 x 2830

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Features:

- High performance rotor dissolver machine works according to the rotor stator principle with high shear system.
- The extremely fine distribution of the solids (suspensions) and liquids (emulsions) into a basic medium is the result of the interaction of different reducing principles.
- Robust rotor stator tools with a narrow radial gap care for high shear speed.
- The centrifugal forces in the rotor simultaneously produce a circulation of the medium.
- Impact and high frequency pressure and decompression result in a strong dispersing effect.
- Solid particles and/or droplets reliably are reduced in size and homogeneously distributed.
- Different pairings of the rotor/stator allow an adaptation to the respective application.
- Batch dispersing directly in a vessel.
- No rotating of the contents in the vessel.
- No Vortex builds up and no air is inducted.
- No free running shaft.
- Installation into a vessel from top or into the conjunction with a mobile lift.

Application:

- Suitable for paint, ink, chemicals, lubricant, organic solvent & pharmaceutical.

Model Specification

◆ DMBR-1000

Model		DMBR-1000-10	DMBR-1000-20
Main Motor	HP	10	20
Speed	RPM	0 - 1500	
Capacity	ltr	100 - 500	
Lifting Height	mm	1000	
Dimension (L/W/H)	mm	1910 x 500 x 1870	

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◆ DMBR-1300

Model		DMBR-1300-30	DMBR-1300-40	DMBR-1300-50
Main Motor	HP	30	40	50
Speed	RPM	0 - 1500		
Capacity	ltr	500 - 1000		
Lifting Height	mm	1300		
Dimension (L/W/H)	mm	2170 x 600 x 2110		

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Lab Dissolver *diamix*[®]

Features:

- Variable speed control stirrer is one of the ideal equipment for dispersion, synthesis and agitation of various liquid materials in the pilot plant laboratories.
- It benefits both small-scale production and provides the basic data and scientific technology for the large-scale production.
- Easy operated - adaptive turn sensitive speed adjustment with digital speed indication.
- Easy to clean.
- Electrical lifting.

Application:

- Suitable for paint, ink, chemicals, lubricant, organic solvent & pharmaceutical.

Model Specification:

◆ DMB-250

Model		DMB-250-0.5	DMB-250-1
Main Motor	HP	0.5	1
Speed	RPM	0 - 3000	
Capacity	ltr	0.5 – 5	
Lifting Height	mm	250	
Dimension (L/W/H)	mm	450 x 450 x 560	
Weight	kg	45	50

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◆ DMB-350

Model		DMB-350-1	DMB-350-2
Main Motor	HP	1	2
Speed	RPM	0 - 3000	
Capacity	ltr	0.5 – 20	
Lifting Height	mm	350	
Dimension (L/W/H)	mm	650 x 450 x 1090	
Weight	kg	85	90

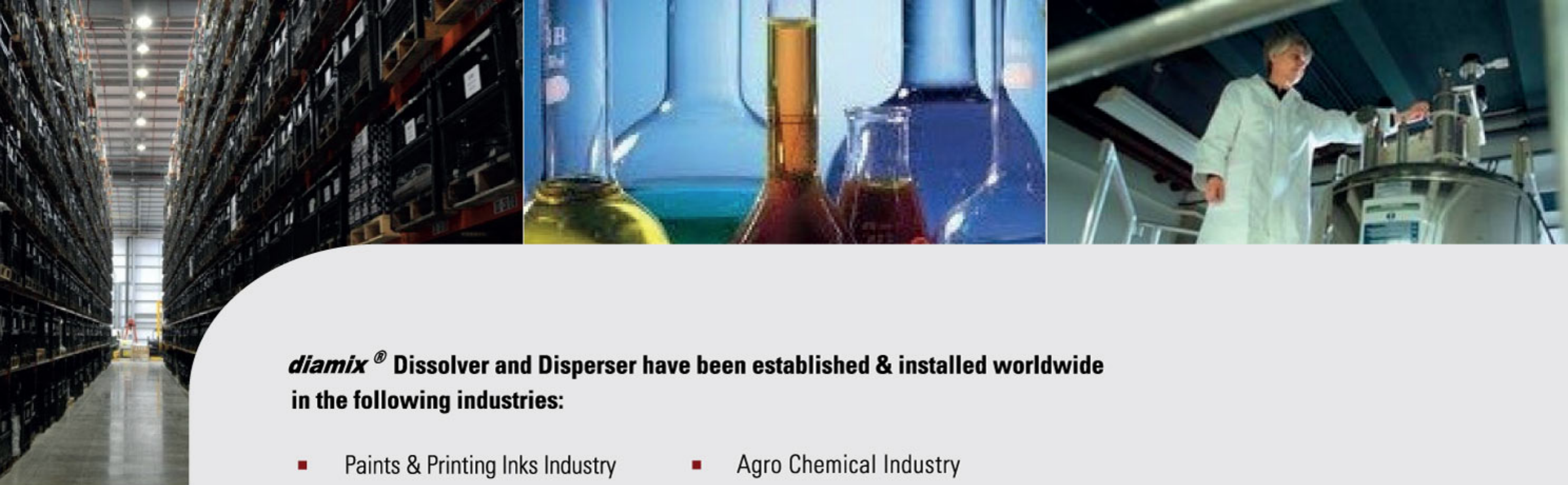
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DMB-250



DMB-350





diamix® Dissolver and Disperser have been established & installed worldwide in the following industries:

- Paints & Printing Inks Industry
- Rubber Industry Industry
- Food Industry
- Solvent-based Industry
- Paper Industry
- Automobile Coatings Industry
- Agro Chemical Industry
- Biotechnology Industry
- Cosmetic Industry
- Microbiology Industry
- Pigments & Dyestuff Industry



You can order these machines or spare parts quickly and easily by email to our sales department as the following contact:

MALAYSIA (Head Office)

Dynamech Industries (M) Sdn Bhd

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Email : sales@dynamech.com
Website : www.dynamech.com

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Fax : +65-6358 0200
Email : singapore@dynamech.com

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Fax : +8621-5869 2658
Email : shanghai@dynamech.com

Dynamech can deliver our **diamix®** to comply & suit our customer needs. Our references are around the world.