

The FlowMix®-Company







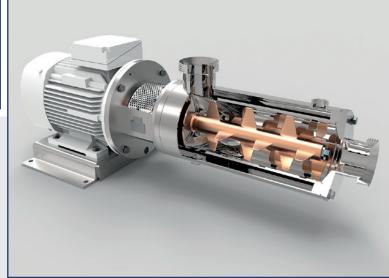






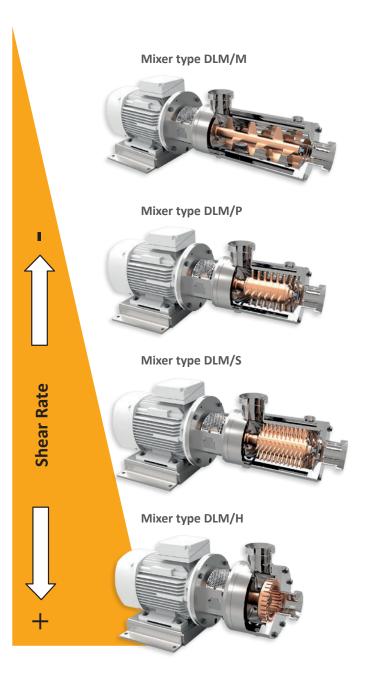






Dynamic inline mixer Type DLM/M

For gentle mixing



Advantages of DLM/M

- Very good self-cleaning during CIP-cleaning
- No pressure loss
- No blockage entwining (clog) free
- Very homogenous mixing result
- Mixing energy can be changed variable and adapted to product or capacity changes
- Execution with double jacket and further connections possible
- Gentle mixing of sensitive products

Function and application of DLM/M

INDAG dynamic inline mixer type DLM/M is used for gentle mixing of shear sensitive products. Examples for applications are: to mix fruit concentrate into yoghurt or quark and chocolate into ice cream. A mousse au chocolat is produced by gently fold chocolate into egg white foam. Sensitive foam will not be destroyed. Other examples are to mix caustic lye into vegetable oil for neutralization or to mix aroma into a fat mass.

Technology of DLM/M

INDAG inline mixer type DLM/M has only mixing elements on rotor and no mixing elements in stator (mixer casing). Rotor can be equipped with mixing elements of different geometry. Geometry depends on product to be mixed.

INDAG mixer DLM/M is designed in a modular way. A single acting mechanical seal can be changed to double acting mechanical seal without change of mixer.

Positioning

Horizontal or vertical position of mixer is possible

Pressure levels

6 bar, 10 bar, 16 bar, 25 bar, 40 bar

Materials

1.4301 (AISI 304), 1.4404 (AISI 316 L)

Seals

Single acting mechanical seal; double acting mechanical seal; even in aseptic execution

Connections

Dairy connections according to DIN 11851, DIN 11864, Tri Clamp, SMS

Rotational speed

100 rpm to 1,800 rpm

Capacities

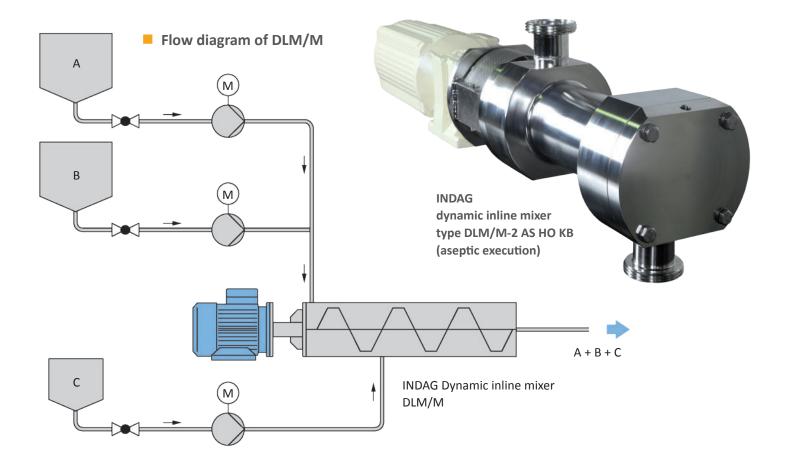
50 l/h to 120,000 l/h

Temperatures

 $0\,^{\circ}\text{C}$ to $200\,^{\circ}\text{C}$

Viscosities

 $1\,\text{mPas}$ to $1,\!000,\!000\,\text{mPas}$



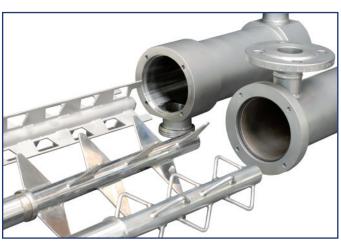
■ Mixer sizes and capacities of DLM/M

	unit						
Type DLM/M HY**		1	2	3	4	5	6
capacity*	l/h	100-2,000	200-5,000	500-10,000	1,000-20,000	3,000-60,000	5,000-120,000
connection	DN	40-80	50 -100	65-150	80 -200	100-250	125-300
optional	ASME	1.5"-3"	2"-4"	2.5"-6"	3"-8"	4"-10"	5"-12"
power	kW	0.75-2.2	1.1-3	1.5-4	2.2-7.5	3-11	4-15
rotational speed	1/min	100-1,800	100-1,800	100-1,800	100-1,800	100-1,000	100-1,000

^{*}Capacity depends on product. ** HY = food execution

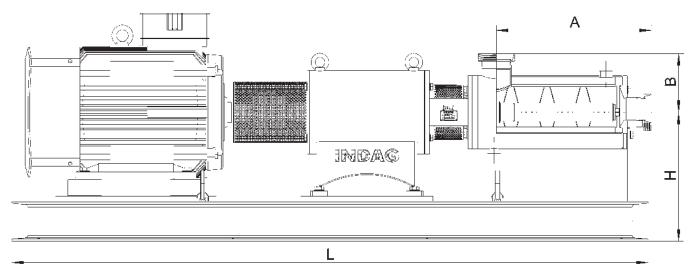


INDAG DLM/M-4 rotor

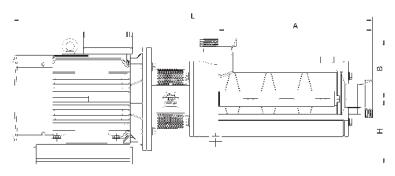


INDAG DLM/M-3 different rotors

Dimension drawing of DLM/M (LB)



Dimension drawing of DLM/M (KB)



Dimension table of DLM/M

Туре	unit	А	В	H*	L*	
DLM/M-1 KB	mm	331	129	158	886	
DLM/M-2 KB	mm	366	155	170	992	
DLM/M-3 KB	mm	462	175	190	1076	
DLM/M-4 KB	mm	564	205	190	1220	
DLM/M-5 KB	mm	654	244	218	1360	
DLM/M-6 KB	mm	Dimensions on request				
DLM/M-1 LB	mm	331	129	250	1500	
DLM/M-2 LB	mm	366	155	312	1700	
DLM/M-3 LB	mm	462	175	385	1900	
DLM/M-4 LB	mm	564	205	460	2200	
DLM/M-5 LB	mm	654	244	460	2500	
DLM/M-6 LB	M/M-6 LB mm Dimensions on request					

^{*} depends on the drive

Company profile

For over 60 years INDAG develops, designs and produces dynamical inline mixers and complete metering and mixing systems in Borsfleth, Germany.

INDAG products claim to meet highest requirements in quality and efficiency.

Product and service spectrum

Product spectrum includes: dynamic inline mixer type DLM/M, intensive inline mixer type DLM/P, intensive inline mixer type DLM/S, homogenizer type DLM/H, solid-liquid mixer type DLM/FS, complete systems type FlowMix for metering, mixing and aerating. Complete systems are equipped with PLC control and sensors for automatic and monitored production. Service spectrum includes commissioning and maintenance of mixers and complete systems.







INDAG Maschinenbau GmbH

Ivenfleth 13

D-25376 Borsfleth / GERMANY

phone +49 4124 9876 - 0 fax: +49 4124 9876 - 54 e-mail: info@indag.de www.indag.com

NORTH AMERICAN PARTNER ORGANIZATION:

NORTH AMERICAN PROCESS, INC. d/b/a INFINI-MIX Process Solutions

811 EAST MAPLE STREET MORA, MN 55051 (855) PROCESS (776-2377) 678-614-5112 www.WeMixStuff.com Sales@naprocess.com