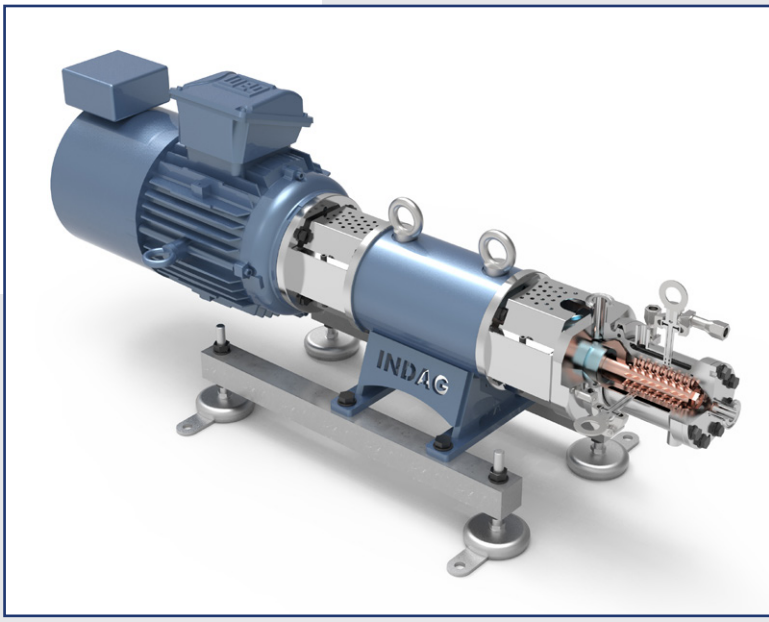
INDAG
Maschinenbau GmbH

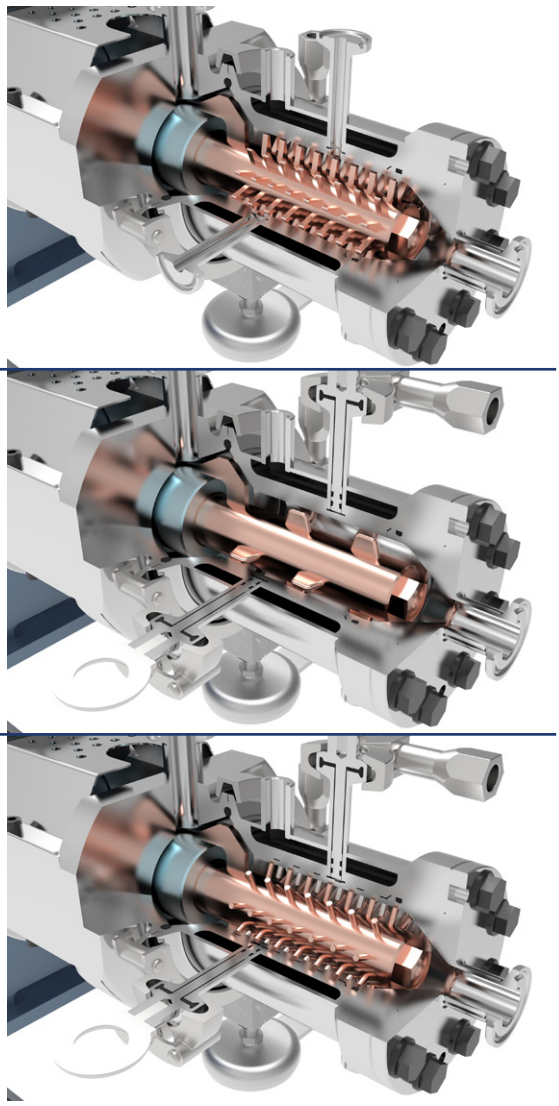
The FlowMix®-Company





Laboratory and pilot plant mixer Type DLM/S-007 Mini

Ideal mixer for laboratory and pilot plant trials
from gentle to intensive mixing



Interchangeable mixing elements make the DLM/S-007 Mini extremely versatile

Advantages of the DLM/S-007

- **Maximum flexibility thanks to the possibility of mounting all types of INDAG mixing elements**
- **Proven scale-up of test results from laboratory tests to production mixers**
- **Multiple injection points for dosing even highly reactive media**
- **Double jacket for cooling and heating**
- **Frequency range of 5 - 100 Hz enables a very wide range of shear rates (10 - 7500 1/s)**
- **Easy disassembly via tri-clamp connection on the housing for conversions or cleaning**

Function and applications of the DLM/FS

The INDAG laboratory and pilot plant mixer, type DLM/S-007 Mini, is used for effective mixing, emulsifying, dispersing and foaming of various liquids and liquids with gases. The INDAG laboratory and pilot plant mixer has been specially designed for test applications with interchangeable mixing elements. The interchangeable mixing elements combined with a generously dimensioned drive for a speed range of 100 to 6000 rpm ensure maximum flexibility for test applications.

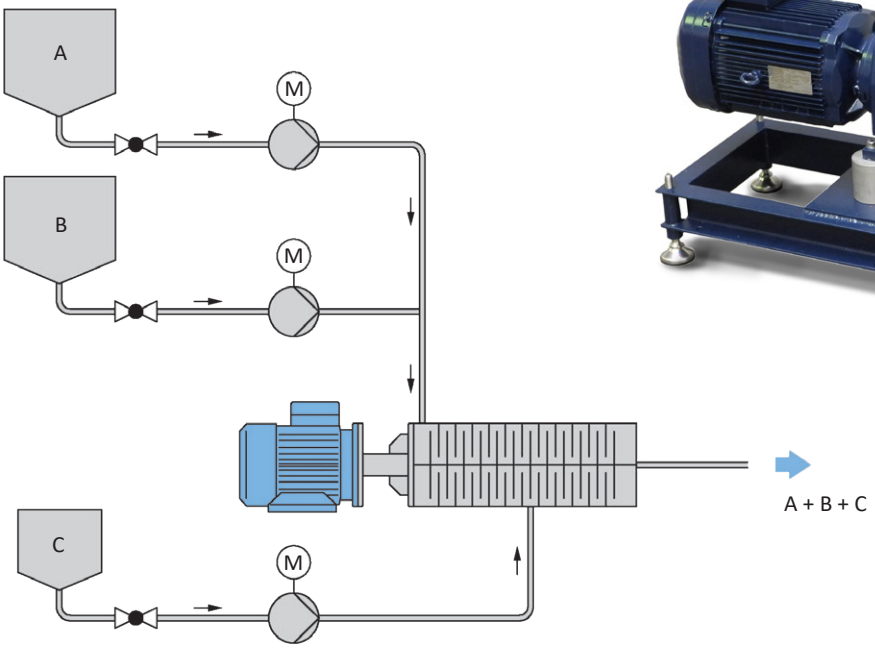
It is also possible to change the shape or spacing of the mixing elements. This means that the INDAG DLM/S, DLM/M or DLM/P mixer can be simulated in one device. The dwell time can be adjusted by combining the number of mixing elements. The speed and thus the shearing force can be adjusted via a frequency converter. All in all, this mixer is the ideal inline mixer for laboratory applications and pilot plants.

Technology of the DLM/FS

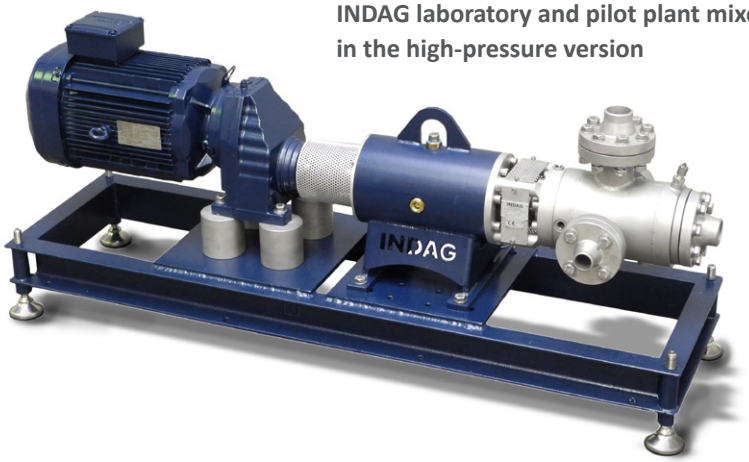
The INDAG laboratory and pilot plant mixer is available in two completely different versions. One is a high-pressure and high-temperature version (max. 100 bar; 360 °C) for mixing polymer melts, adhesives or silicone polymers, for example. The far more common version is a hygienic version, which is used in the food sector as well as in the chemical sector. This is approved as standard up to 150 °C and 16 bar(g).

We offer interchangeable mixing elements for this mixer in order to be able to implement a wide range of mixing applications. The axial distance can also be variably adjusted using spacer rings. The additional option of variably setting the number of mixing stages makes this a very flexible, individually adjustable machine. The mixing energy is transferred to the product very efficiently. The stator can be designed to be cooled/heated. The DLM/S-007 Mini is available in a bearing block design (LB). This design is also suitable for mixing under high pressure or high temperature. The type of rotor seal is selected to suit each application. INDAG offers the appropriate barrier fluid system to supply the double-acting mechanical seal; the threaded shaft seal does not require an additional supply unit. INDAG mixers are also manufactured for potentially explosive areas and substances (ATEX).

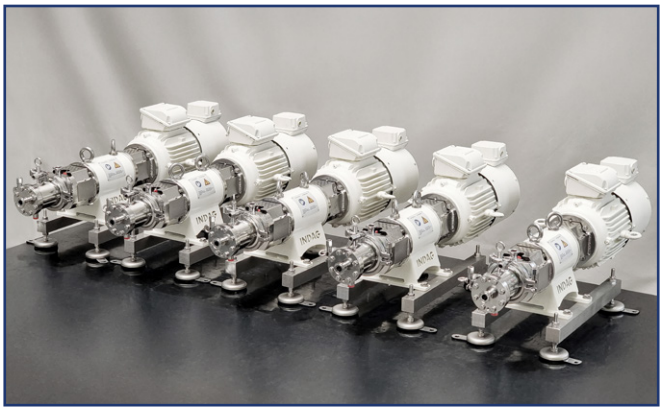
Flow diagram of the DLM/S-007 Mini



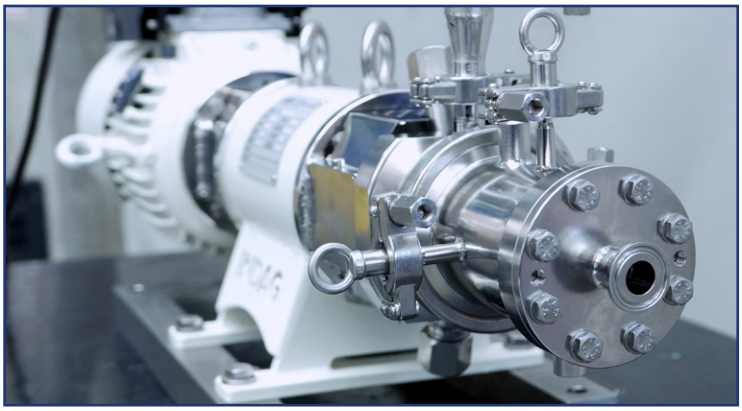
INDAG laboratory and pilot plant mixer in the high-pressure version



Type	DLM/S-007 Mini Hygiene	DLM/S-007 Mini High Pressure
Installation type	Horizontal	Horizontal
Pressure levels	16 bar	100 bar (higher on request)
Material	1.4404 (AISI 316L), deviations on request	1.4404 (AISI 316L), deviations on request
Seals	Double-acting mechanical seal, stuffing box seals	Threaded shaft seal with stuffing box packing
Connections	Tri-Clamp	High pressure flange, adapted to customer connection
Rotating speed	100 rpm to 6,000 rpm	50 rpm to 1,000 rpm
Capacities	10 l/h to 100 l/h (depending on product and application)	5 l/h to 80 l/h
Temperatures	0 °C to 150 °C (higher temperatures on request)	0 °C to 360 °C
Viscosities	1 mPas to 5,000,000 mPas	50,000 mPas to 70,000,000 mPas
Disassembly Housing	via Tri-Clamp connection	screwed

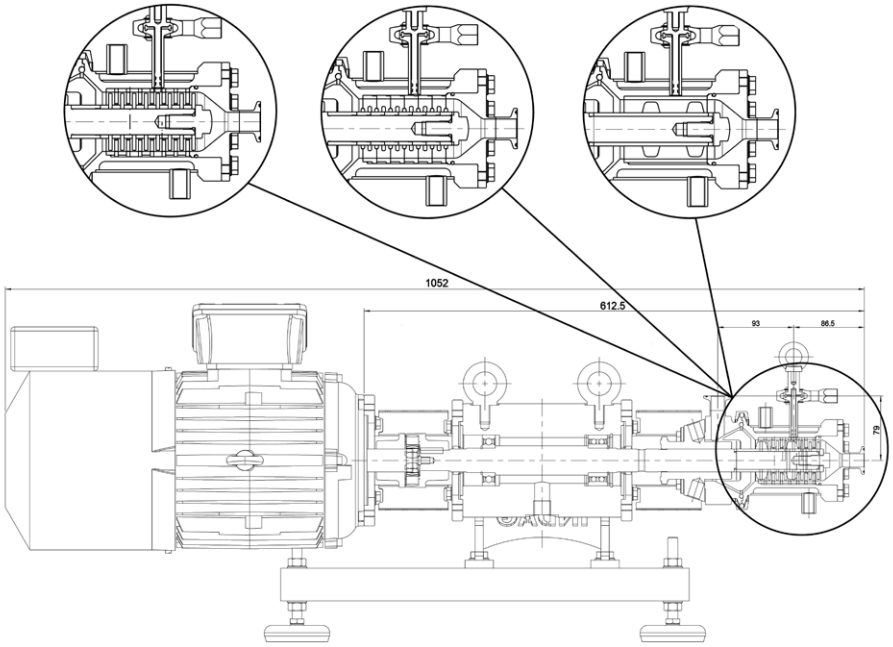


We offer the DLM/S-007 Mini for rent

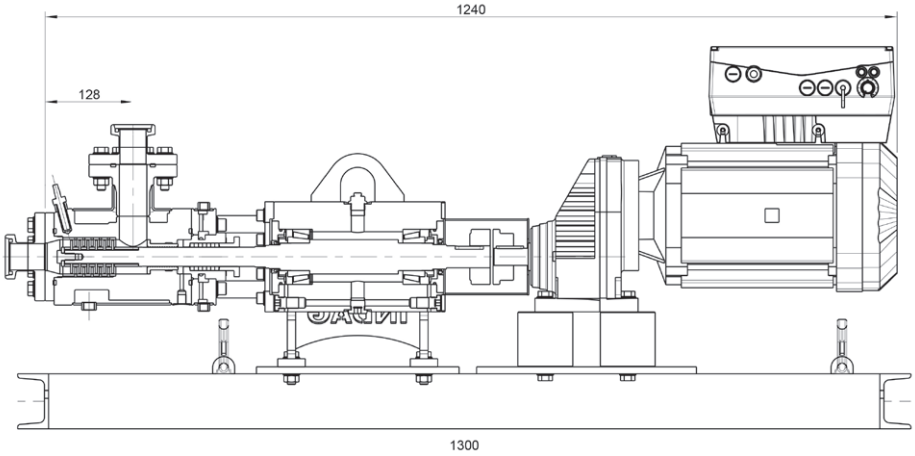


DLM/S-007 Mini

Dimensional drawing DLM/S-007 Mini Hygiene



Dimensional drawing DLM/S-007 Mini High Pressure



Company profile

For more than 70 years, INDAG has been developing, designing and manufacturing dynamic inline mixers in Borsfleth near Hamburg.
INDAG mixers are designed to meet the highest quality and efficiency standards.

Product range and services

Our product range covers: Dynamic inline mixers for gentle, intensive, or high shear mixing. Possible applications are: Mixing, emulgating, dispersing and foaming.
Our services include: Commissioning, maintenance, and repair of INDAG mixers, spare parts service and customer support based on many years of experience.

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