Gear metering systems – line Z-MIX



LubTec s.r.o. | Opolany 191 | CZ 289 07 LIBICE NAD CIDLINOU
Telefon: +420 325 637 545 | FAX: +420 325 637 184 | lubtec@lubtec.cz | www.lubtec.cz
WAT: CZ25068911 | Zapsaná u Městského soudu v Praze oddíl C, vložka 46939

ISO 9001
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The Z-MIX line of systems are compact, solvent free, gear pump driven metering and mixing systems. They are used to apply low to medium viscosity multiple component materials such as epoxies, polyurethanes and silicones. The material is supplied from pressure vessels. Special configurations to process high viscosity media are also available with LubTec barrel pumps.

Application areas:

- Coating
- Encapsulating
- Gluing
- Rapid Prototyping
- Sealing
- Potting
- Bonding

Industries

- Automotive
- Electrical and electronic
- Renewable energy
- Aerospace
- White goods
- E-mobility
- And any more

Device Features:

The transport of liquid materials is by means of pressure reservoirs, the pasty materials are transported by barrel pumps. The actual metering of the material is then by means of gear pumps which are driven by asynchronous or servo motors. The gear pump surfaces of component A are coated with DLC as a standard, thus achieving a hardness of 2800 Vickers, so the device can also be used for abrasive filler materials.
A volumetric counter can then be placed behind the gear pump to measure the actual metered volume
The gear pump and electronics can then control the real dosing ratio and dispense the exact amount of material into the product. The material is then passed through hoses divided into the mixing head, where it is mixed in a static or static-dynamic mixer. On request, we are able to deliver a dynamic mixing head.
The typical control system used is the SIEMENS S7 / 1200 with color touch screen.

The device Z-MIX can then be supplied in various designs and optional equipment for example

- Completely or only partially heated equipment
- Material cooling
- Vacuum pump - device under vacuum
- Diaphragm feed pumps to prevent air bubbles from entering the material
- Servo motors instead of standard asynchronous motors
- Electric stirrers in pressure tanks
- Automatic refill systems
- Desktop design
- Mobile design
- Modular design for robotic workstations
- And any more

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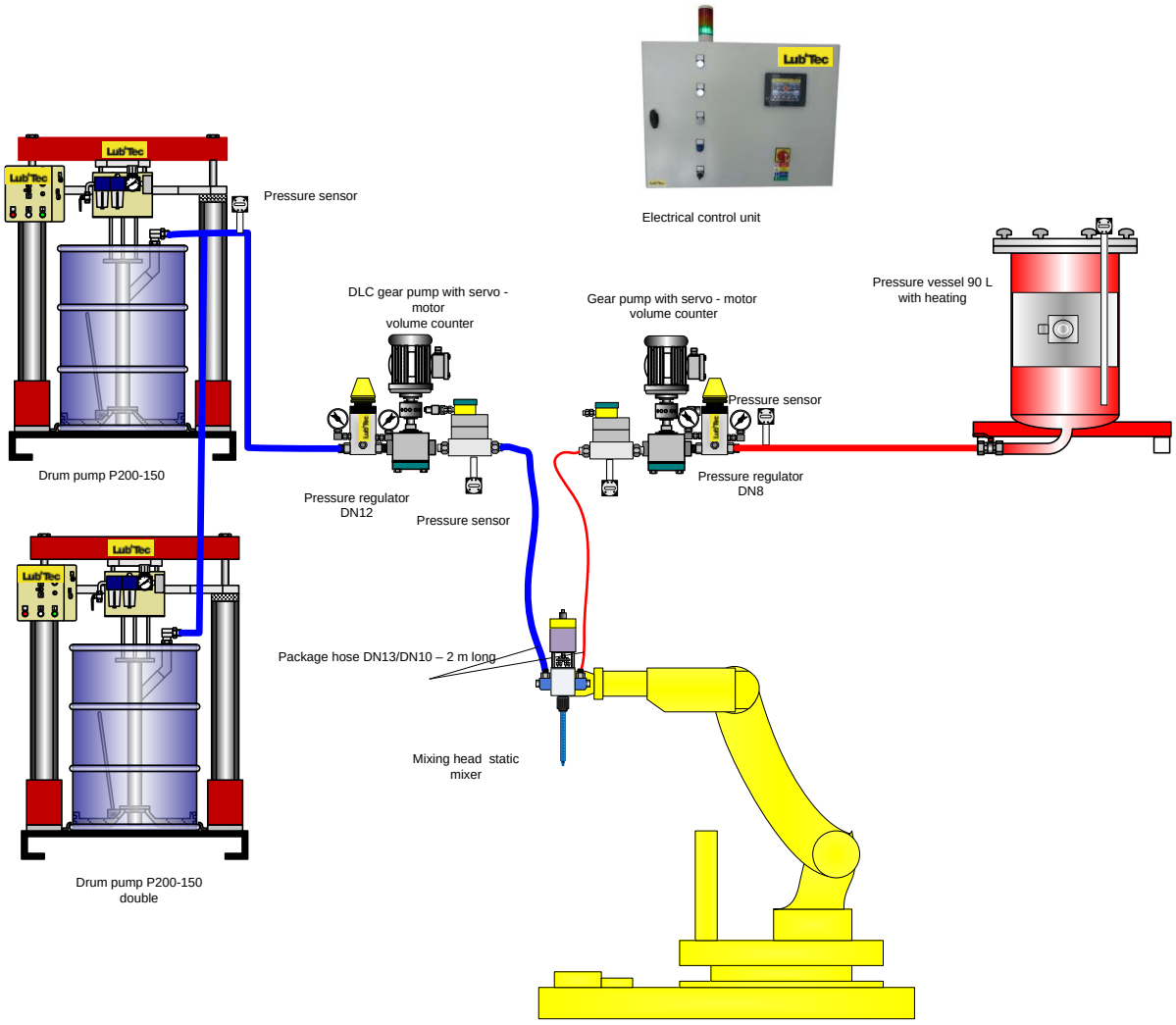
Technical data:

Flow rate:	From dosage 0,5 ml to 5 l/min depending on mixing ratio and viscosity
Mixing ratio:	100 : 100 to 100 : 2 by volume
Mixing system:	Static mixer – standard Static dynamic – for materials with very different viscosity and ratio Dynamic mixing head
Material supply:	Pressure vessels from 12 do 120 L for materials with viscosity from 10 do 50 000 mPa.s LubTec barrel pumps for pasty to 1,5 mil mPa.s.
Material characteristic:	Unfilled, filled, abrasive materials.
Napájení:	400 V 50 Hz – 16 A
Power supply:	4 – 8 bar
Weight:	From approx. 200 kg
Dimensions:	od 1250 / 1200 / 1 400 mm - 3 D model available on request.

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Diagram example – Z-MIX robot





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