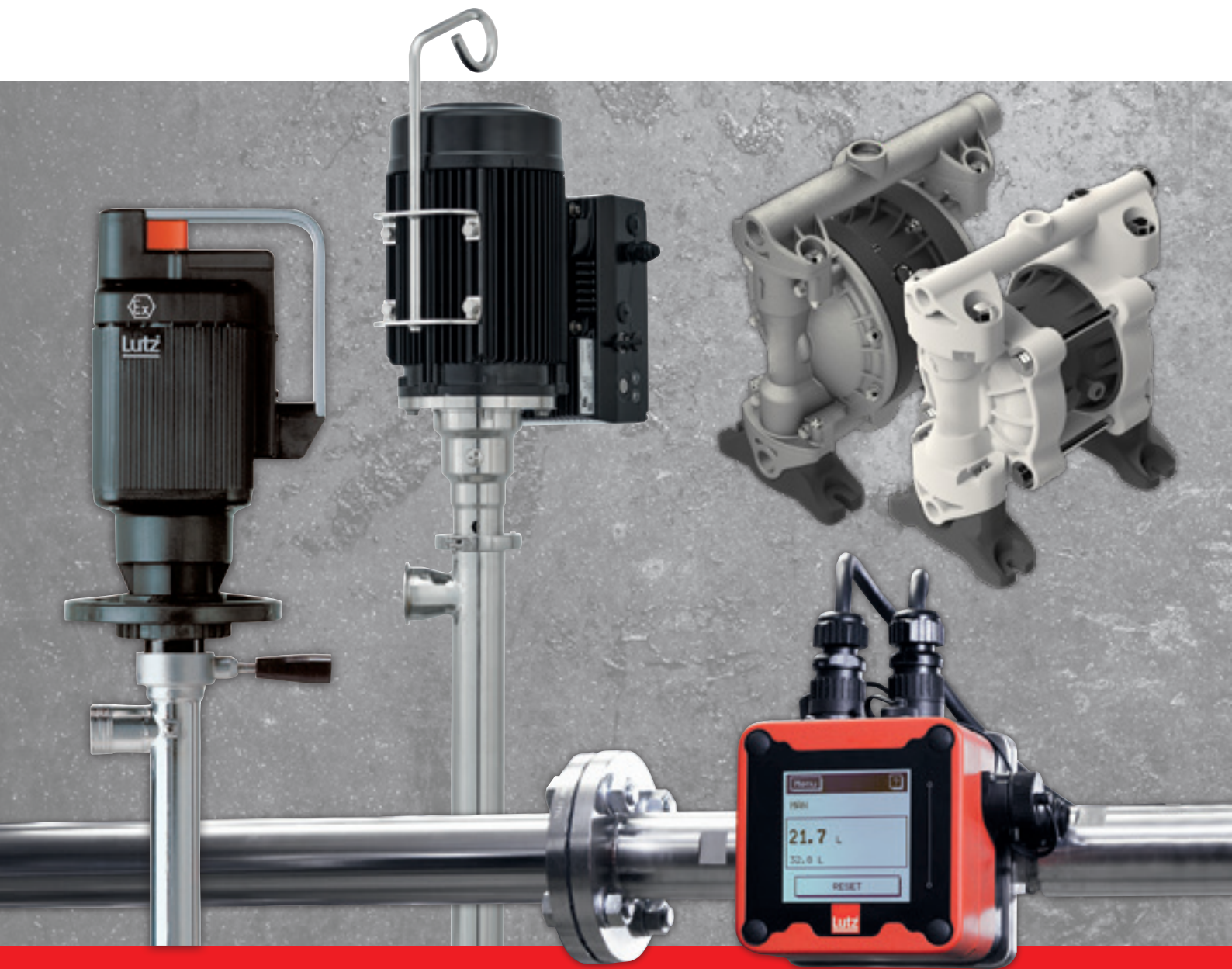




Powerful, efficient, innovative

Lutz Pumpen: your manufacturer for conveying and measuring technology

Product portfolio

safety is our concern

Lutz product range



Drum and container pumps from page 10



Eccentric screw pumps from page 22



Flow meter from page 18



Double diaphragm pumps from page 26



Centrifugal pumps from page 30

2) Motor max. 350W, frequency dimension max. 350 with frequency protection switch

3) Motordarstellung um 90° gedreht / not

Content

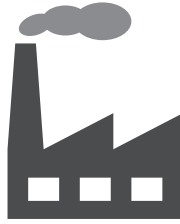
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Lutz Pumpen in figures

DISTRIBUTION AND
SERVICE NETWORKS
IN MORE THAN



80 COUNTRIES



**FAMILY BUSINESS
SINCE 1954**

**20 DIFFERENT
INDUSTRIES**



**> 450
EMPLOYEES**

**ON-SITE REPAIR
SERVICE**



**4 COMPANIES
IN ONE GROUP**

**> 20,000,000
PUMPS SOLD**

**MORE THAN 1,000
PRODUCT OPTIONS**

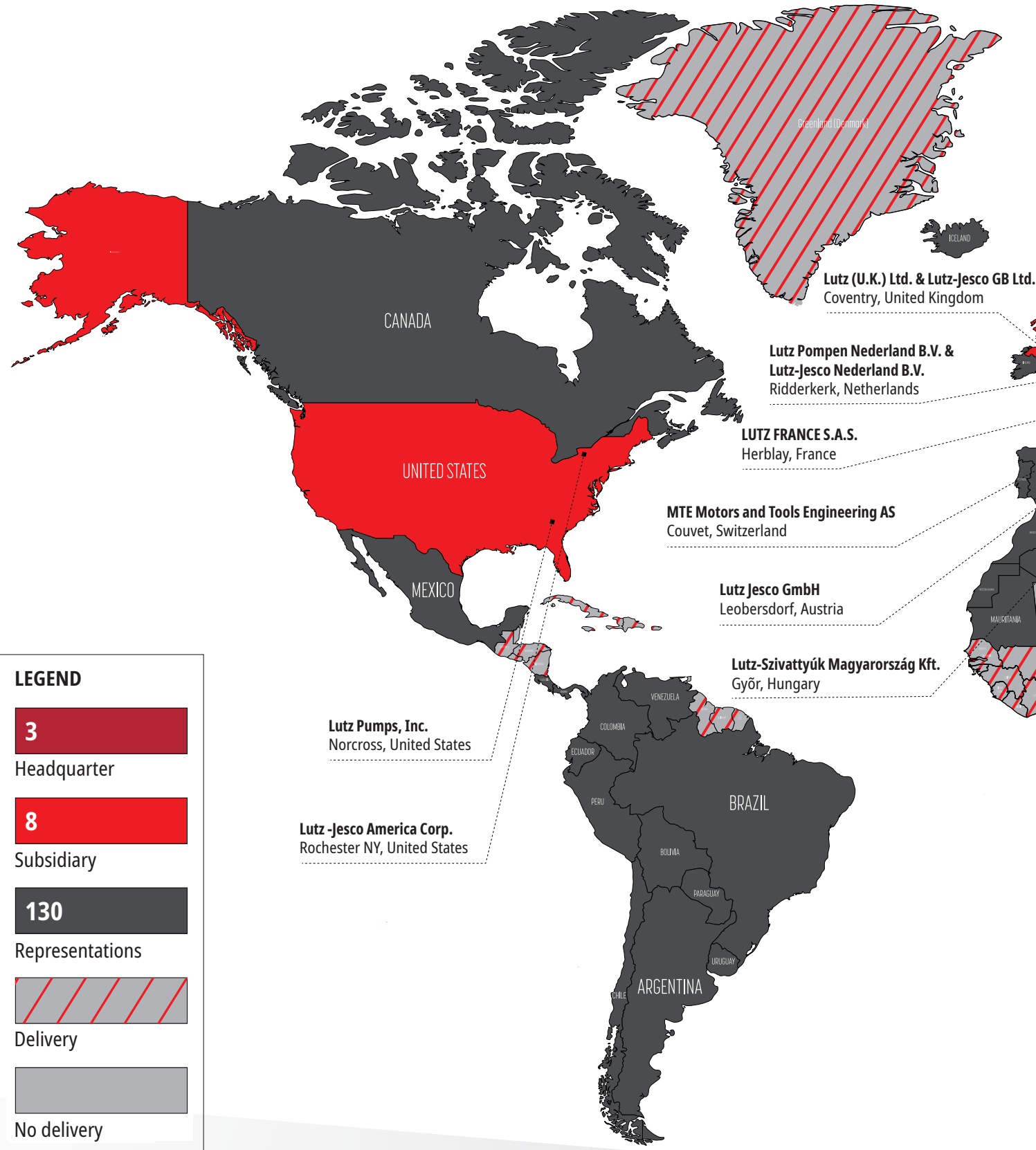
Rooted in Wertheim – at home in the world

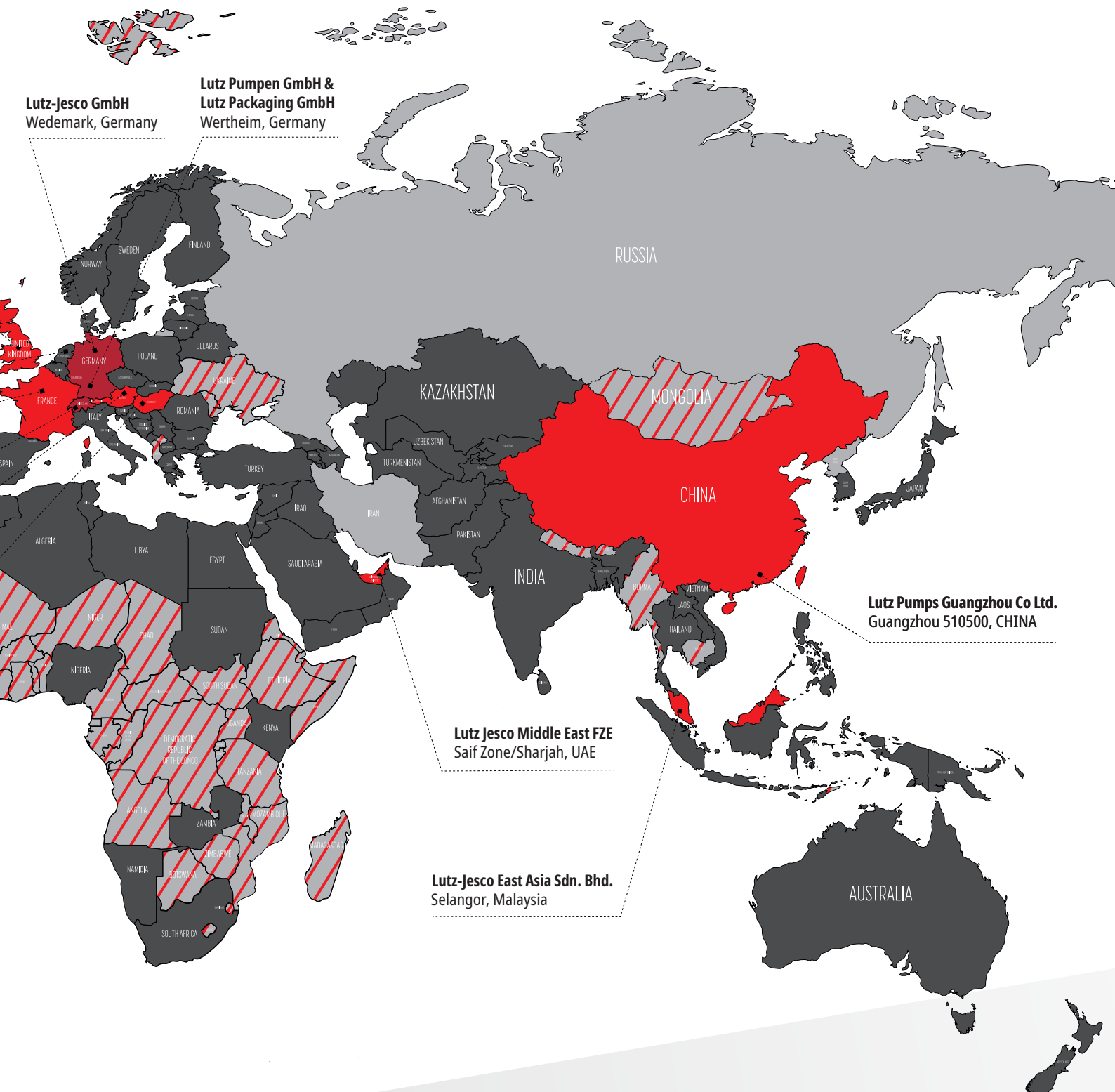
Lutz Pumpen is a renowned German manufacturer of pumps based in Wertheim am Main. The company has been on the market for over 65 years and offers innovative and reliable pump solutions for various industries. Lutz attaches great importance to quality and sustainability and is committed to environmental protection. With a worldwide sales network, the company is represented in over 80 countries and supplies customers from a wide range of industries.

Lutz offers an extensive range of pumps for various applications such as chemicals, food, paints and varnishes, oils and greases as well as water and waste water. From a wide variety of pump types to flow meters and system solutions, Lutz meets all of its customers' requirements. The products are characterised by innovative technology, highest quality and reliability.



Rooted in Wertheim – at home in the world





safety is our concern

Environmental standards, product quality and reliability are three of the most important factors for companies. "safety is our concern" - this is our slogan. With complete drum drainage, pump tube without grease filling or gas displacement device, we contribute to making health and environmental protection a matter of course.

Our pumps are approved according to recognised standards and regulations and meet all requirements of IEC, ATEX, UL, PTB, VDE and CE.



The glass/fork symbol according to regulation (EC) 1935/2004 is a standardised EU-wide symbol indicating that an object is suitable for the contact with food.



The Food and Drug Organisation in the USA certifies materials and substances for the marketing of pharmaceuticals, medical devices or food and the fulfilment of safety and efficacy standards.



The USP is a non-profit organisation that develops and monitors the compliance with standards for pharmaceuticals and medical devices.



The 3-A Sanitary Standards are a range of standards for the hygiene of materials and equipment used in the food, beverage and pharmaceutical industries.

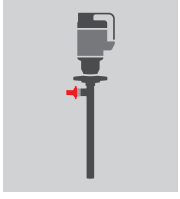


The ATEX Directive is a European Directive to ensure the safety of equipment and protective systems used in explosion hazard areas.

**QUALITY
MADE IN
GERMANY**



Drum and container pumps

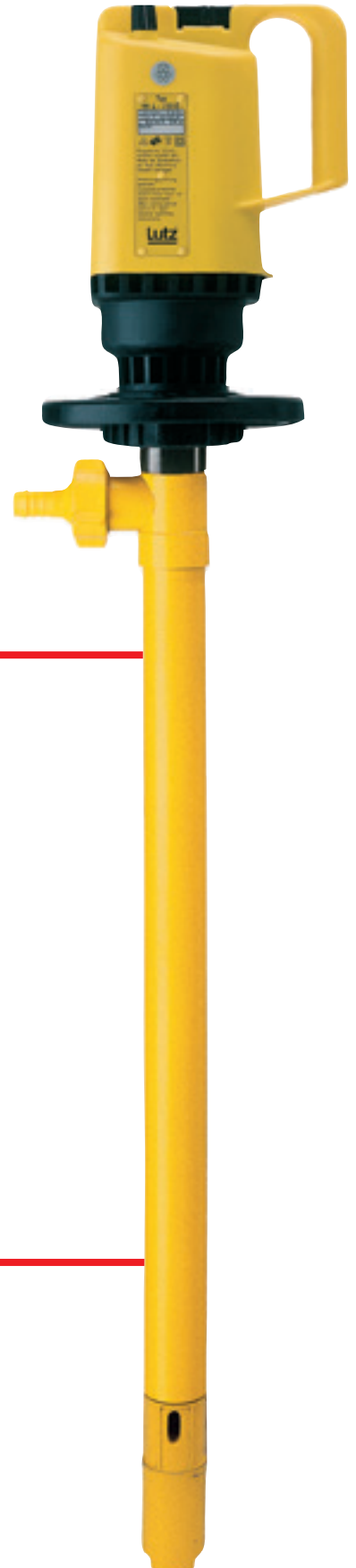


When a liquid has to be transferred from one container to another, one think directly about one thing: pouring it over! At the latest when it is a matter of hazardous liquids or large quantities, it is obvious that this is not the safest option.

Requirements and liquids in the market could not be more different: large volumes, high pressures, viscous liquids, chemical resistance and many properties more, are the very different challenges for the drum pump. With a Lutz drum pump anyone who transfers liquids of all kind can become a professional.

Properties

- modular construction
- long service life
- lubricant-free pump tube
- no seals in contact with the liquid
- available in different lengths
- easily detachable by Lutz handwheel
- for emptying canisters, drums and containers
- wide range of accessories
- high chemical resistance
- variants for mixing and pumping and for complete drum drainage





Drum pumps with many possible combinations

The Lutz drum pump consists of two main elements: motor and pump tube. The motor serves as the drive and responsible for the pump capacity of the various requirements.

With its high-quality materials and resistance to the fluids, the pump tube ensures safe pumping. Due to the many variants of our products, we provide suitable solutions for every challenge. Our portfolio is completed by the appropriate accessories.



▪ Motors



MD1xL



MD2xL



B3 Battery



MI 4/MI 4-E



MA II



ME II



B4/GT

▪ Pump tubes



PP



PVDF



Alu



SS



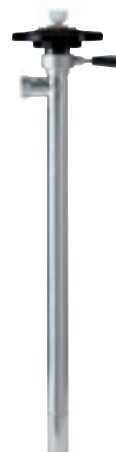
HC



RE-PP



MP-PP



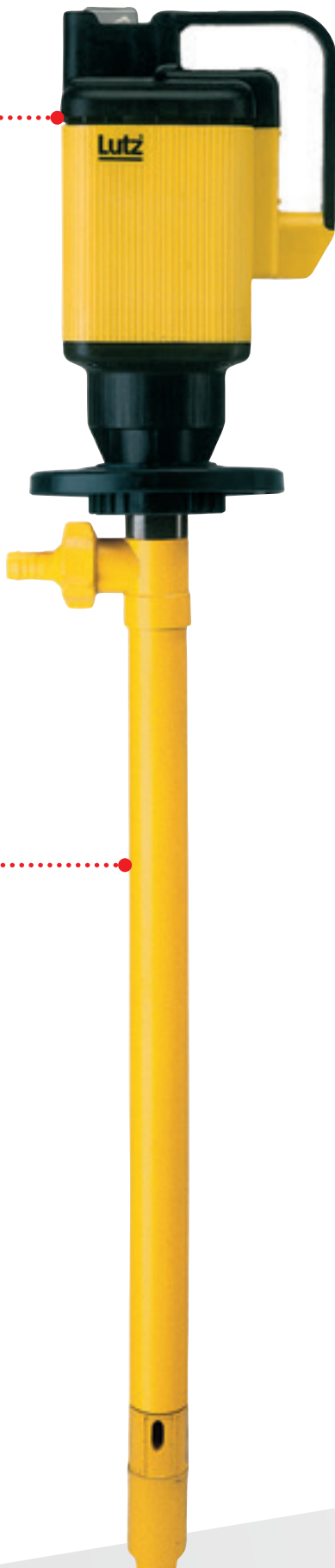
RE-SS



MP-SS

Can be optimally combined with a wide range of Lutz accessories:

Nozzles, hoses, emission-proof drum adapter, flow meters, foot strainers, installation flanges and much more



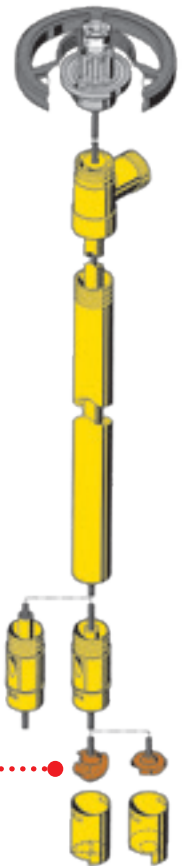
Construction of pump tubes

Type of seal

Mechanical seal MS	Sealless SL
for crystallising, adhesive solids-containing or contaminated liquids	for thin-bodied non-hardening and non-adhesive liquids
PP, PVDF, Aluminium, Stainless steel	PP, PVDF, Aluminium, Hastelloy C

Type of impeller

Radial impeller = L (Impeller)	Axial impeller = R (Rotor)
for higher delivery head	for higher flow rates
heavy, viscous liquids	light thin-bodied liquids



Sealing module

Impeller

Drum pump sets

Lutz offers you individual pump sets with pre-assembly for quick use. Optionally, the pumps can be combined with a flow meter. Take advantage of our know-how – we configure, you decide!

- ideally matched to the liquid being pumped
- ready for operation in just a few steps
- quick to use, thus saving time





Motors	B1 / B2 Battery	B3 Battery	B2 Vario	MI 4	MA II	ME II
Type:	Battery motor for B1 Battery/B2 Battery	Battery motor	Motor for Lutz B2 Vario	Universal motors		
				MI-4-230, MI-4-230 E MI-4-120, MI-4-120 E MI-4-100 E	MA II 3, MA II 5, MA II 5-S, MA II 7	ME II 3, ME II 5, ME II 7, ME II 8
Drive types:	Battery (BLDC)	Battery (BLDC)	Electric	Electric	Electric	Electric
Conformity/certification:	–	–	–	–	–	Ex
Energy efficiency category:	–	–	–	–	–	–
Variants/options:	Speed controller	Speed controller	Speed controller	Speed controller Low voltage release	Low voltage release	Low voltage release
Voltage range depending on type:	10.8-21.6 V	21,6 V	100-230 V	100-230 V	12-230 V	24-230 V
Power:	70-260 W	320 W	200 W	400-640 W	400-795 W	380-930 W
Frequency:	–	–	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Air consumption:	–	–	–	–	–	–
Speed:	5000-12000 1/min.	6000-10000 1/min.	8200-11000 1/min.	9000-9700 1/min.	5800-10950 1/min.	7500-11000 1/min.
Operating pressure:	–	–	–	–	–	–
Type of protection:	IP 24	IP 24	IP 24	IP 24	IP 54	IP 54
Weight:	0.59-1.14 kg	1,28 kg	1.76 kg	2.8 kg	4.6-6.6 kg	5.5-8 kg
Features, functions, benefits:	- replaceable battery - infinitely variable - compact design - wear-free, particularly low-noise BLDC motor with quick fastener	- replaceable battery - low noise level - infinitely variable - universally applicable - compact design - long service life - wear-free, particularly low-noise BLDC motor	- infinitely variable - compact design - long service life - low noise level	- universally applicable - light and convenient - optionally available with speed controller - good price/performance ratio	- optimised cooling air flow - External ventilation - double insulated with protective conductor connection available in 3 power ratings	- explosion-proof according to ATEX and IEC Ex - with low voltage release as standard - External ventilation - available in 4 power ratings



B4/GT					MDxL	DA
Three-phase motors					Compressed air motor MD1xL, MD2xL	Compressed air motor 4 DA, 6 DA, 8 DA
Geared motor B4/GT	Single-phase motor for B50 / HD-E	Three-phase motor for B70V 12.1-75.1	Three-phase motor for B70V 120.1	Three-phase motor for B6		
Three-phase	Three-phase	Three-phase	Three-phase	Three-phase	Compressed air	Compressed air
–	–	Ex	–	Ex	Ex	Ex
–	–	IE 3	IE 3	IE 3	–	–
Terminal box protection switch	–	Terminal box protection switch frequency converter	Terminal box	–	Convenient grip	–
230-400 V	230V	230-400 V	230-400 V	230-400 V	–	–
750 W	550-750 W	0.75-1.5 kW	2.2-3 kW	1.5-4 kW	1000 W	0.45-1.7 kW
50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	–	–
–	–	–	–	–	1.5 Nm³/h	55-130 Nm³/h
9300 1/min.	1500-2800 1/min.	700-900 1/min.	600 1/min.	2800 1/min.	12000 1/min.	900 1/min.
–	–	–	–	–	6 bar	6 bar
IP 54 / IP 55	IP 54	IP 55	IP 55	IP 54/IP 55	–	–
11 kg	11.9 kg	22-37 kg	43-47 kg	17.6 kg	1-1.4 kg	5-18 kg
▪ particularly smooth running ▪ low noise level ▪ oil-lubricated gear ▪ high maintainability	▪ extremely powerful ▪ low wear ▪ low noise ▪ constant speeds	▪ extremely powerful ▪ particularly low-wear ▪ very low-noise ▪ constant speeds		▪ extremely powerful ▪ particularly low-wear ▪ very low-noise ▪ constant speeds	▪ very high level of efficiency ▪ infinitely variable ▪ applicable oil-free ▪ performance class up to 1000 watts	▪ high level of efficiency ▪ adjustable via pressure quantity ▪ high reliability ▪ low maintenance design

16 General overview pump tubes drum and container pumps



Pump tubes	B1/B2 Battery	B2 Vario	PP	PVDF
Type:	B1 Battery PP-SL B2 Battery PP-SL B2 Battery PVDF-SL B2 Battery SS-SL	B2 Vario PP-SL 32 B2 Vario PVDF-SL 32 B2 Vario SS-SL 28	PP-SL PP-MS	PVDF-SL PVDF-MS
Material pump tube:	Polypropylene Polyvinylidene fluoride Stainless steel	Polypropylene Polyvinylidene fluoride Stainless steel	Polypropylene	Polyvinylidene fluoride
Typical applications:	thin-bodied liquids, concentrated acids and alkalis	thin-bodied liquids, concentrated acids and alkalis	thin-bodied alkalis and acids	concentrated acids and alkalis
Typical containers:				
Conformity/Certification:	–	–	–	–
Immersion depths:	500-1000 mm	500-1000 mm	700-2000 mm	700-1200 mm
Type of seal:	SL (sealless)	SL (sealless)	SL (sealless) MS (mechanical seal)	SL (sealless) MS (mechanical seal)
Type of impeller:	Impeller / rotor	Rotor	Impeller / rotor	Impeller / rotor
Max. flow rate: ¹	80 l/min.	75 l/min.	216 l/min.	216 l/min.
Max. delivery head:	12 m wc	7 m wc	36 m wc	36 m wc
Max. viscosity:	400 mPas	300 mPas	1000 mPas	1000 mPas
Max. immersion tube diameter:	25-32 mm	28-32 mm	41 mm	41 mm
Weight: (1000 mm immersion depth)	0.5-1.6 kg	0.5-1.6 kg	1.1 kg	1.7 kg
Description:	▪ lubricant-free pump tube ▪ low weight ▪ optimized drum drainage ▪ maintenance without special tools	▪ lubricant-free pump tube ▪ low weight ▪ optimized drum drainage ▪ maintenance without special tools	▪ plastic-based materials ▪ lubricant-free pump tube ▪ no seals in contact with the liquid (SL) ▪ optimized drum drainage ▪ high-quality PTFE-shaft bearings ▪ maintenance without special tools	

¹ The maximum flow rate is a value determined by means of a test bench and measured with water at a medium temperature of approx. 20°C. The measurement is carried out at the pressure joint of the pump, without hose, nozzle or flow meter. The flow rate achievable in use is lower and depends on the individual application, the media properties and the configuration of the pump. The max. delivery head is also dependent on the pump design, motor and medium. Viscosity determined with oil.



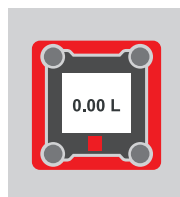
Alu	SS	HC	RE PP/SS	MP PP/SS
Alu-SL Alu-MS	SS-SL SS-MS	HC-SL	Complete drum drainage pump tubes RE-PP MS RE-SS MS	Mixing pump tubes MP-PP SL MP-PP MS MP-SS MS
Aluminium	Stainless steel	Hastelloy C	Polypropylene Stainless steel	Polypropylene Stainless steel
light viscous mineral oils	solvents, highly flammable hydrocarbons, explosive liquids	highly flammable chemicals	acids and alkalis, solvents, highly flammable hydrocarbons, explosive liquids	acids and alkalis, solvents, highly flammable hydrocarbons, explo- sive liquids
  	  	 	  	 
–	  		  	  
700-1500 mm	700-2000 mm	1000-1200 mm	700-1200 mm	1000-1225 mm
SL (sealless) MS (mechanical seal)	SL (sealless) MS (mechanical seal)	SL (sealless)	MS (mechanical seal)	SL (sealless) MS (mechanical seal)
Impeller / rotor	Impeller / rotor	Impeller / rotor	Impeller	Impeller / rotor
216 l/min.	276 l/min.	276 l/min.	78 l/min.	245 l/min.
36 m wc	35 m wc	35 m wc	28 m wc	36 m wc
1000 mPas	1000 mPas	1000 mPas	1000 mPas	1000 mPas
41 mm	41 mm	41 mm	41 mm	41-50 mm
1.5 kg	3.2 kg	4.7 kg	1.2-3.5 kg	1.3-3.5 kg

- metal-based materials
- lubricant-free pump tube
- no seals in contact with the liquid (SL)
- optimized drum drainage
- high-quality PTFE-shaft bearings
- maintenance without special tools

- lubricant-free pump tube
- no seals in contact with the liquid (SL)
- residual quantity less than 0.1 l
- high-quality PTFE-shaft bearings
- maintenance without special tools

- lubricant-free pump tube
- no seals in contact with the liquid (SL)
- mixing and pumping in one system
- high-quality PTFE-shaft bearings
- maintenance without special tools

Flow meter



Today, precise work counts in the laboratory as well as in production and when handling liquids. Flow measurement must therefore be rational, economical and above all practical - in mobile use as well as in stationary operation.

The exact measurement of the liquid volume ensures the quality of work processes and the economic use of operating resources. You have been able to rely on the proven Lutz flow meters for more than 30 years the new generation of meters will also inspire you.



Turbine flow meters



Swash plate meter



Oval gear meter

Properties

- mobile or stationary use
- battery or mains operation
- volume preset and overrun correction
- for aqueous to highly viscous liquids
- variants with touchscreen display
- multilingual menu guidance
- safety and monitoring functions
- high measuring accuracy

Lutz modular flow meter system TS

Basic flow meter and control unit form the flow meter

Operating unit

Relay module

Basic flow meter





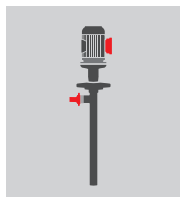


Flow meter	MDO	TR	TS (Non explosion-proof version)
Type:	MDO 2	TR3-PP, TR3-PVDF	ST 10, SL 10, VA 10
Housing material:	Aluminium	POM	PPO, stainless steel (1.4581/1.4571)
Liquids:	thin-bodied, non-flammable liquids, mineral oils, alternative fuels	aqueous, non-flammable liquids, aggressive and highly aggressive liquids	neutral liquids such as water, mineral oils, aggressive liquids such as acids and alkalis
Typical applications:	Drum pump	Drum pump	Drum pump and plant engineering
Conformity/Certification:	–	–	
Measuring principle:	Oval gear	Turbine wheel	Swash plate
Variants/options:	–	–	Volume preset
Power supply:	Battery	Battery	Mains operation
Measuring range:	3-80 l/min.	up to 120 l/min.	up to 100 l/min.
Max. viscosity:	1000 mPas	40 mPas	5000 mPas
Max. operating pressure:	4 bar	10 bar	10 bar
Type of protection:	IP 67	IP 65	IP 55
Weight:	1.4 kg	0.22-0.24 kg	1.1-4.1 kg
Features, functions, benefits:	▪ easy to use ▪ compact design ▪ quick assembly onto the pump.	▪ also for small volume flows ▪ partial volume resettable ▪ free-rotatable after assembly ▪ display of the partial and total volume ▪ mobile use on a drum pump or with nozzle connection	▪ touch screen display ▪ multilingual menu guidance ▪ simple plain-text operation ▪ plug & play modular design ▪ free-rotatable after assembly



TS (Explosion-proof version)	HDO (Non explosion-proof version)	HDO (Explosion-proof version)
LM 10 Ex, UN 10 Ex, VA 10 Ex	HDO 080 SS/SS HDO 120 Alu/LCP HDO 120 SS/SS HDO 200 Alu/LCP HDO 200 SS/SS HDO 250P HDO 250 Alu/PPS HDO 250 SS/PPS HDO 250 SS/SS HDO 400 Alu/PPS HDO 400 SS/PPS HDO 400 SS/SS HDO 500 Alu/PPS HDO 500 SS/PPS HDO 500 SS/SS	HDO 120 Alu/LCP Ex HDO 120 SS/SS Ex HDO 200 Alu/LCP Ex HDO 200 SS/SS Ex HDO 250 Alu/PPS Ex HDO 250 SS/PPS Ex HDO 250 SS/SS Ex HDO 400 Alu/PPS Ex HDO 400 SS/PPS Ex HDO 400 SS/SS Ex HDO 500 Alu/PPS Ex HDO 500 SS/PPS Ex HDO 500 SS/SS Ex
PPS, stainless steel (1.4581/1.4571)	PPS, Aluminium, Stainless steel (1.4404/1.4571)	Aluminium, stainless steel (1.4404)
solvents and highly flammable liquids, oils and neutral liquids, most acids and alkalis	neutral liquids, many acids and alkalis, mineral oil products, paints and lacquers, etc.	flammable mineral oil products, highly flammable hydrocarbons and other chemicals in explosive environments.
Drum pump and plant engineering in the hazardous area	High viscosity pump and plant engineering	High viscosity pump and plant engineering in the hazardous area
	–	
Swash plate	Oval gear	Oval gear
Volume preset	Volume preset Thread/flange connection	Volume preset Thread/flange connection
Mains operation	Mains operation	Mains operation
up to 100 l/min.	up to 380 l/min.	up to 380 l/min.
5000 mPas	500,000 mPas	500,000 mPas
10 bar	16 bar	16 bar
IP 55	IP 55	IP 55
1.1-6.7 kg	0.7-13.8 kg	2.1-13.8 kg
- for applications in hazardous areas - touch screen display - multilingual menu guidance - simple plain-text operation - plug & play modular design - free-rotatable after assembly	- for high flow rates, temperatures and pressures - for high viscosities - touch screen display - multilingual menu guidance - simple plain-text operation - plug & play modular design	- for applications in hazardous areas - for high flow rates, temperatures and pressures - for high viscosities - touch screen display - multilingual menu guidance - simple plain-text operation - plug & play modular design

Eccentric screw pumps



Compared to other pump types, eccentric screw pumps offer several advantages: due to their gentle pumping action, they can pump sensitive products such as foodstuffs, paints and varnishes, but also abrasive and aggressive liquids or liquids with a high solids content.

In addition, the eccentric screw principle enables high dosing accuracy and low-pulsation pumping. The pumps are easy to clean and maintain, which is an advantage for hygienic applications such as in the food and pharmaceutical industries.

Properties

- variable flow rate
- large delivery head
- self-priming
- dynamic shaft seal
- almost no shearing effect on the pumped fluid
- gentle and almost pulsation-free pumping
- variable drive concept
- suitable for a wide viscosity range





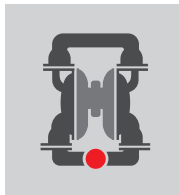


Eccentric screw pump tubes	HD-E	HD-E-SR	B70V-SR B70V HD-SR
Type:	HD-E	HD-E-SR	B70V-SR and B70V HD-SR 12.1, 25.1, 50.1
Material pump tube:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Liquids:	thin-bodied to medium viscosity liquids	slightly and medium viscous liquids	water-like to highly viscous liquids with and without fibres or solids
Typical containers:			
Conformity/Certification:			
Immersion depths:	1000/1100 mm	1000 mm	1000 mm
Type of seal:	Mechanical seal	Mechanical seal	Packing gland / mechanical seal
Drive shaft:	Universal joint shaft	Universal joint shaft	Torsion shaft / universal joint shaft
Max. flow rate:	20 l/min.	17 l/min.	50 l/min.
Max. delivery head:	4 bar	6 bar	8 bar
Max. viscosity:	500-4000 mPas	500-30,000 mPas	1-100,000 mPas
Max. immersion tube diameter:	41 mm	41 mm	54 mm
Weight:	3.5 kg	4.5 kg	7 kg
Features, functions, benefits:	▪ light and mobile ▪ for narrow-necked containers ▪ easy and fast cleaning ▪ gentle, low-pulsation product pumping ▪ ideal for the pharmaceutical and food sector ▪ drive with 1-phase three-phase motor	▪ light and mobile ▪ for narrow-necked containers ▪ easy and fast cleaning ▪ gentle, low-pulsation product pumping ▪ ideal for the pharmaceutical and food sector ▪ powered by electric and compressed air motors	▪ circulation/Rinsing connection ▪ easy and fast cleaning ▪ gentle, low-pulsation product pumping ▪ ideal for the pharmaceutical and food sector ▪ powered by electric and compressed air motors



B70V		B70V-H-SR SanitaryPlus	B70V-H-D SanitaryPlus
B70V 12.1, 25.1, 25.2, 50.1, 75.1	B70V 120.1	B70V-H-SR SanitaryPlus 12.1, 25.1, 50.1	B70V-H-D SanitaryPlus 12.1, 25.1, 25.2, 50.1, 75.1
Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4404)	Stainless steel (1.4404)
medium viscous to highly viscous liquids to the limit of flowability	highly viscous and pasty liquids, up to the flowability limit	foodstuffs containing alcohol, cosmetics and pharmaceutical articles as well as flammable cleaning agents, liquid foodstuffs and semi-luxury food, pharmaceutical substances and cosmetic products, creams, gel, soaps, shampoo, lotions, anti- corrosion agents, vaseline, sauces, honey, fruit juice concentrates, dough, paints and lacquers, glue	
1000 mm	1100 mm	1100 mm	1100 mm
Packing gland / mechanical seal	Mechanical seal	Mechanical seal	Mechanical seal
Torsion shaft / universal joint shaft	Universal joint shaft	One-piece torsion shaft	One-piece torsion shaft
75 l/min.	120 l/min.	50 l/min.	75 l/min.
8 bar	6 bar	8 bar	10 bar
1-100,000 mPas	1-120,000 mPas	1-100,000 mPas	100,000 mPas
54 mm	131 mm	54 mm	54 mm
7 kg	15 kg	8 kg	8 kg
▪ circulation/rinsing connection ▪ easy and fast cleaning ▪ gentle, low-pulsation product pumping ▪ ideal for the pharmaceutical and food sector ▪ drive with powerful three-phase motors	▪ suitable for high viscosities and flow rates ▪ easy and fast cleaning ▪ gentle, low-pulsation product pumping ▪ ideal for the pharmaceutical and food sector ▪ drive with powerful three-phase motors	▪ very easy and fast cleaning ▪ quick and easy to dismantle ▪ gentle, low-pulsation product pumping ▪ ideal for the pharmaceutical and food sector by low-deadleg design ▪ can be used vertically and horizontally ▪ powered by electric and compressed air motors	▪ very easy and fast cleaning ▪ quick and easy to dismantle ▪ high discharge pressure up to 10 bar by displacement principle ▪ gentle, low-pulsation product pumping ▪ ideal for the pharmaceutical and food sector by low-deadleg design ▪ can be used vertically and horizontally ▪ drive with powerful three-phase motors

Compressed air diaphragm pumps



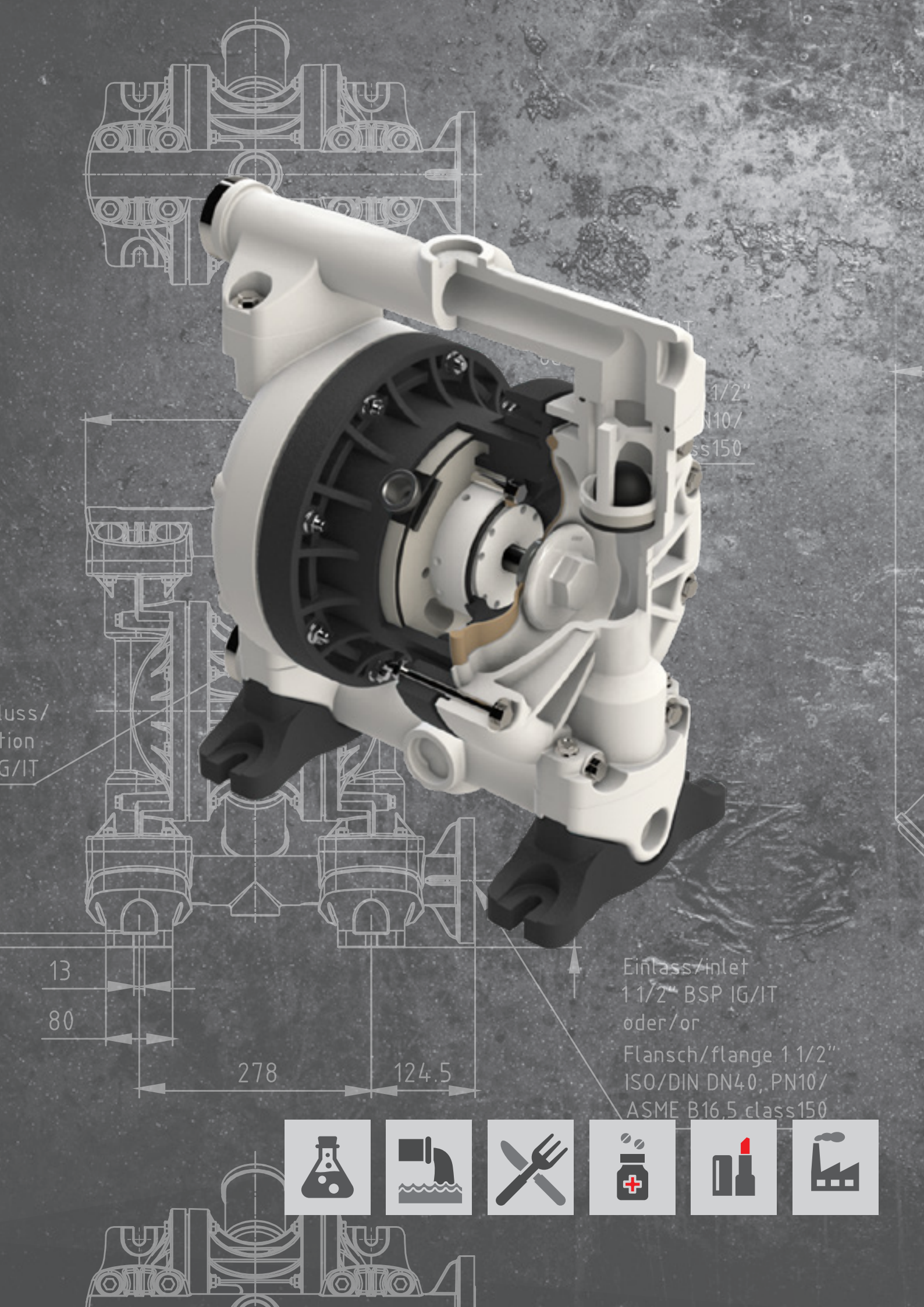
The further development of the Lutz double diaphragm pumps combines the existing properties with new technical features.

The application possibilities of the double diaphragm pump are very versatile: from the automotive industry and the waste water sector, to the transfer of chemicals such as acids, alkalis, alcohols and solvents, to the feeding of large-scale plants. The pumps also reliably solve the tasks in the food sector and when pumping low-viscosity and viscous fluids.

Properties

- high hydraulic performance and optimised air consumption
- maintenance-optimised design and simple installation
- integrated muffler up to size AODD 1"
- highly resistant TFM (PTFE) diaphragms (modified PTFE)
- reinforced elastomers and thermoplastic diaphragms
- safe to run dry and self-priming
- ice-free air system
- pumps ATEX-approved (explosion protection)





1 1/2"
PN10/
class150

Flansch/
flange
IG/IT

13

80

278

124.5

Eintlass/inlet
1 1/2" BSP IG/IT
oder/or
Flansch/flange 1 1/2"
ISO/DIN DN40; PN10/
ASME B16.5 class150





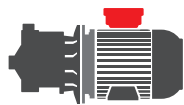
Double diaphragm pumps	Polypropylene	PVDF
Type/Size	AODD 1/4" mini PPTAODD 1/4" PPT AODD 1/4" PPE AODD 1/4" PPB AODD 1/4" PPV AODD 1/2" PPT AODD 1/2" PPE AODD 1/2" PPB AODD 1/2" PPV AODD 1" PPT AODD 1" PPE AODD 1" PPB AODD 1" PPV AODD 1 1/2" PPT AODD 1 1/2" PPE AODD 1 1/2" PPBAODD 2" PPT AODD 2" PPE AODD 2" PPB	AODD 1/4" mini KNT AODD 1/4" KNT AODD 1/4" KNV AODD 1/2" mini KNT AODD 1/2" KNT AODD 1/2" KNV AODD 1/2" KNTC Ex AODD 1" KNT AODD 1" KNV AODD 1 1/2" KNT AODD 1 1/2" KNV AODD 2" KNT AODD 2" KNV
Housing material:	PP (polypropylene)	PVDF (Polyvinylidene fluoride)
Centre block material:	Polypropylene (glass fibre reinforced)	Polypropylene (carbon fibre reinforced)
Typical application depending on the model:	Suitable for small quantities, in the laboratory sector, industrial applications as well as for drum, IBC and tank emptying, for large-scale industry and plant feeding	Suitable for small quantities, in the laboratory sector, industrial applications as well as for drum, IBC and tank emptying, for large-scale industry and plant feeding
Typical liquids depending on the model:	Chemical circulation and feed, liquids with solid particles such as paints and lacquers, electroplating liquids, solvents, acids and liquid soap, corrosive solutions and chemicals, pigment dyes and resins	Chemical circulation and feed, liquids with solid particles such as paints and lacquers, electroplating liquids, solvents, acids and liquid soap, corrosive solutions and chemicals, pigment dyes and resins
Conformity/Certification:		
Diaphragm material:	NBR, TPC-ET + TFM (PTFE), TPV (EPDM-PP)	TPV (EPDM-PP) + TFM (PTFE), FPM
Max. flow rate:	715 l/min.	715 l/min.
Max. delivery head:	80 m wc	80 m wc
Max. air pressure:	8 bar	8 bar
Max. suction head (dry):	4.5 m wc	4.5 m wc
Max. viscosity:	30,000 mPas	30,000 mPas
Weight:	1.5-34 kg	1.9-40 kg
Features, functions, benefits:	- plastic-based materials - integrated muffler up to model size AODD 1" - high hydraulic performance - maintenance-optimised design and simple installation - self-priming (even when dry) - ice-free air system - reinforced elastomers and thermoplastic diaphragms - absolutely oil-free - non-stalling operation - conductive version approved according to ATEX Directive 2014/34/EU, Category 2	



Aluminium	Stainless steel	Stainless steel (PURE)
AODD 1/2" ALT Ex AODD 1/2" ALB Ex AODD 1" ALT Ex AODD 1" ALB Ex AODD 1 1/2" ALT Ex AODD 1 1/2" ALB Ex AODD 2" ALE Ex AODD 1/2" ALE Ex AODD 1/2" ALV Ex AODD 1" ALE Ex AODD 1" ALV Ex AODD 1 1/2" ALE Ex AODD 2" ALT Ex AODD 2" ALB Ex	AODD 1/2" SST Ex AODD 1/2" SSB Ex AODD 1" SST Ex AODD 1" SSB Ex AODD 1 1/2" SST Ex AODD 1 1/2" SSB Ex AODD 2" SST Ex AODD 2" SSB Ex AODD 1/2" SSE Ex AODD 1/2" SSV Ex AODD 1" SSE Ex AODD 1" SSV Ex AODD 1 1/2" SSE Ex AODD 1 1/2" SSV Ex AODD 2" SSE Ex AODD 2" SSV Ex	AODD 1/2" SST PURE AODD 1" SST PURE AODD 1 1/2" SST Ex PURE AODD 2" SST Ex PURE
Aluminium	Stainless steel 1.4404 (316 L)	Stainless steel 1.4404 (316 L) electropolished
Aluminium/Polypropylene (carbon fibre reinforced)	Aluminium/Stainless steel 1.4404 (316 L)	Polypropylene (glass fibre reinforced)/ Aluminium (food varnish)
suitable for industrial applications as well as for drum, IBC and tank emptying, for large-scale industry and plant feeding	suitable for industrial applications as well as for drum, IBC and tank emptying, for large-scale industry and plant feeding	suitable for the food, cosmetics and pharmaceutical sectors, drum, IBC and tank emptying
Chemicals, solvents, acids and liquid soap, corrosive solutions and chemicals	Chemicals, solvents, acids and liquid soap, corrosive solutions and chemicals	liquid foodstuffs and semi-luxury food, pharmaceutical substances and cosmetic products
		 
NBR, TPC-ET + TFM (PTFE), TPV (EPDM-PP)	NBR, TPV (EPDM-PP) + TFM (PTFE), TPV (EPDM-PP), FPM	TPV (EPDM-PP) + TFM (PTFE)
715 l/min.	715 l/min.	715 l/min.
80 m wc	80 m wc	80 m wc
8 bar	8 bar	8 bar
4.5 m wc	4.5 m wc	4.5 m wc
30,000 mPas	30,000 mPas	30,000 mPas
4-44 kg	6-54 kg	6-49 kg

- metal-based materials
- integrated muffler up to model size AODD 1"
- high hydraulic performance
- maintenance-optimised design and simple installation
- self-priming (even when dry)
- ice-free air system
- reinforced elastomers and thermoplastic diaphragms
- absolutely oil-free
- non-stalling operation
- conductive version approved according to ATEX Directive 2014/34/EU, Category 2

Centrifugal pumps



Lutz's modular system guarantees high flexibility of the centrifugal pumps. The different sizes, technical designs and materials of the vertically or horizontally wet-installed series can be combined to create the perfect pump for the customer's specific requirements.

Lutz centrifugal pumps are used in a wide variety of industries. They are particularly suitable for electroplating and waste water technology, the chemical industry, water treatment and gas scrubbing plants. In these demanding applications, you can rely on the centrifugal pumps to meet your fluid handling requirements.

Properties

- for stationary and mobile application
- smooth running
- fast assembly
- simple commissioning
- horizontal centrifugal pumps designed for dry running
- long service life
- powerful and efficient
- easy maintenance
- long service life





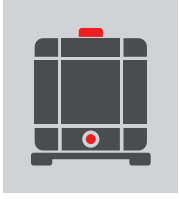


Vertical centrifugal pumps	B50	B6	B80
Type:	Three-phase motors		
	single-phase motor B50 PP/HC, B50 PP/SS	three-phase motor B6/15 PP, B6/30 PP, B6/45 PP, B6/60 PP, B6/15 SS, B6/30 SS, B6/45 SS, B6/60 SS	motor according to IEC standard B80 HME, B80 KME, B80 KGK G1, B80 KGK G2, B80 KGK G3
Material pump tube:	Polypropylene	Polypropylene, Stainless steel (1.4571)	Fibreglass or carbon fibre reinforced plastic, (PP/GF, PVDF/CF)
Liquids:	for neutral and aggressive liquids	for neutral and aggressive fluids as well as fluids containing solids	for neutral and aggressive fluids with a large amount of solid matter.
Typical applications:	developed for quick emptying of containers and basins	Surface treatment, chemical industry, mineral oil, lacquer and paint industry, foundries, water decontamination	gas scrubbing, heat exchanger, filtration, water treatment, surface treatment, sump drainage
Variants/options:	–	–	single- and two-stage pumps, external flushing pipe, bearing/bearing-less, thread/flange
Conformity/Certification:	–	–	–
Energy efficiency category:	–	IE 3	IE 3
Voltage range:	230V	230/400 V	400V
Power:	0.55 - 0.75 kW	1.5 - 4 kW	0.37-45 kW
Frequency:	50 Hz	50 Hz	50-60 Hz
Speed:	2700-2800 1/min.	2800 1/min.	1450/2900 1/min.
Max. flow rate:	12 m³/h	56 m³/h	270 m³/h
Max. delivery head:	22 m wc	15 m wc	85 m wc
Max. viscosity:	100 mPas	4000 mPas	75 mPas (dynamic viscosity)
Type of protection:	IP 54	IP 54/IP55	IP 55
Weight:	10.5-13.5 kg	32-48 kg	11-379 kg
Features, functions, benefits:	▪ high level of efficiency/flow rate ▪ smooth running ▪ small space requirement ▪ simple commissioning	▪ good price/performance ratio ▪ small space requirement ▪ high application possibility ▪ high temperature resistance	▪ special vapour seals ▪ plain bearing or bearing-less version ▪ corrosion-resistant plastic ▪ wet or dry installation



Horizontal centrifugal pumps	TMB	AM	TMR
Type:	TMB 10, TMB 20, TMB 30, TMB 35, TMB 65	AM	TMR G2, TMR G3
Pump material:	Polypropylene (glass fibre reinforced) ECTFE (carbon fibre reinforced)	Polypropylene (glass fibre reinforced) ECTFE (carbon fibre reinforced)	Polypropylene (glass fibre reinforced) ECTFE (carbon fibre reinforced)
Liquids:	Acids, alkalis, acid and alkali mixtures, solvents, alkaline degreasing baths, electroplating baths, photographic chemicals as well as radioactive, sterile, valuable and highly corrosive liquids and many other liquids		
Typical applications:	for installation in small systems and apparatus	for the medium performance segment in plant engineering and process equipment manufacturing	designed for medium to high flow rates
Variants/options:	Thread /hose connection	Thread /hose connection	Thread /flange connection
Conformity/Certification:	–		
Energy efficiency category:	–	IE 3	IE 3
Voltage:	230V	230V/400 V	400V
Power:	15-97 W	0.18-1.8 kW	0.55-11 kW
Frequency:	50/60Hz	50/60Hz	50/60Hz
Max. flow rate:	65 l/min.	200 l/min.	800 l/min.
Max. delivery head:	8 m wc	12 m wc	42 m wc
Max. viscosity:	20 mPas	40 mPas	150 mPas
Type of protection:	IP 54	IP 55	IP 55
Weight:	0.9-5 kg	8-11 kg	10-55 kg
Features, functions, benefits:	▪ compact dimensions, tailor-made performance ▪ corrosion resistant ▪ ideal for mobile applications ▪ variable connection options	▪ small sizes with high performance ▪ designed for dry running ▪ corrosion resistant ▪ low wear ▪ variable connection options	▪ designed for dry running ▪ powerful ▪ variable connection option ▪ protective plate against mechanical damage

Container emptying



Container emptying is an important process in the industry. Different emptying systems can be used for this. The selection of the appropriate emptying system depends on factors such as the type and viscosity of the product, the size and nature of the container and the specific requirements of the application.

As a customer, you have the choice: Depending on where your IBC is used, you can empty the container vertically or horizontally.

Lutz offers you the following solutions:

- **Container pump B50**
- **Horizontal container pump B200**
- **SafetyBox for leakage detection**
- **Drum pumps with 1200 mm pump tube**
- **Double diaphragm pumps by means of a traverse**

Removal from above
drum pump from 1200 mm
immersion depth or B50

Removal from below
horizontal container pump B200



Benefits

- **Efficiency:** cost and performance optimisation through many years of experience
- **Safety:** protection of people and the environment
- **Flexibility:** professional solutions for individual requirements



Container pump B50

Safe, fast, economical: The model B50 convinces in liquid transfer with low wear, large flow rates and rapid emptying.

SafetyBox for leakage detection

Dynamic seals should be replaced after specified operating times. As it is more difficult to monitor the operating time of mobile pumps, it is more likely that wearing parts will be used for longer than intended. The solution is the SafetyBox monitoring module, which can detect leaks in the mechanical seal.



Horizontal container pump Lutz B200

This highly compact pump is an interesting alternative when conventional vertical drum pumps cannot be used, e.g. for containers stored in racks.



Drum and double diaphragm pumps

All drum pumps with immersion depths from 1200 mm are suitable for emptying containers. Double diaphragm pumps can also be used, depending on the liquid. A specially developed traverse made of stainless steel ensures a safe installation of the pumps.

System solutions



Complex systems in industry require the highest degree of precision in planning and realisation. Lutz Pumpen offers complete systems and planning services for the realisation of standard applications and special requirements.

Thanks to a large number of implemented projects and our many years of know-how, we can provide you with complete and comprehensive support in the implementation of your special solution.

Service

- consultation
- configuration
- construction
- installation
- after-sales
- maintenance



Horizontal Eccentric Screw Pump

on trolley for mobile application



for up to
100 Litre



Mobile filling station

the clever alternative to the stationary solution



Dosing case

mobile and compact



Drum emptying system with follower plate

mobile and hydraulic



Power Cube

for a safe power supply of your systems



Rollable dosing system

the clever alternative to the stationary solution

Our range of accessories



Smooth and safe operation of the drum and container pumps requires a practical range of accessories. Whether for mobile use or permanently installed in a system - with the Lutz accessories, your pump becomes a perfect filling system.

The full range of Lutz accessories guarantees customized solutions for every area and every application.



Motors

powerful universal, compressed air and three-phase motors in explosion-proof and non explosion-proof version



Nozzles

for safe filling and transferring of liquids



Lifting device

for safe lifting/ the pump in and out



Flow meter

for measuring of liquids of all kind



Hoses

available in many materials/versions

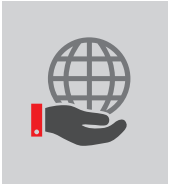


Hose connections and adapter

suitable for all applications

You will find further accessories on our website:
<https://www.lutz-pumpen.de/en/accessories>

Service



Lutz Pumpen is your reliable partner with a worldwide network of competent representatives for all service questions concerning our products.

Customer-oriented action ranges from advice to sales and after-sales service. To be on the safe side, we offer not only high-quality products but also comprehensive services.



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Do you have any questions about our products, do you need assistance with the selection for your project or are you looking for a contact person on site?

Our experts are available to advise you:

anfrage@lutz-pumpen.de | Phone +49 9342 879-260



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