

# LUBRICUS

modern lubrication technology

The powerful and flexible lubrication system



Lubrication of  
bearings  
chains  
open tooth systems  
linear guides



## Lubricus - the adaptive and compact lubrication system

### Flexible lubrication

The Lubricus lubrication system can supply up to 16 lubricating points - either autonomously in battery mode or via an external power supply.

### Flexible lubrication

The Lubricus lubrication system is an extremely compact lubrication unit for oils and greases up to NLGI class 2. The lubrication system works either autonomously with a battery back (3.6V) or using an external voltage supply (24VDC). Dependent on the version, the Lubricus has up to four outlets and is thus optimally suited for uses with multiple lubricating points.

The Lubricus is suitable for the simple and reliable supply of lubrication to bearings, linear guides, chains and open tooth systems, for which special lubricating pinions and lubricating gearwheels are available.

Due to the compact dimensions, the Lubricus is optimally suited for upgrades or retrofitting.



## LUBRICUS

- 💧 **Transport of oil and grease up to NLGI-class 2**
- 💧 **Connection to machinery control possible**
- 💧 **Delivery pressure up to 70 bar (1015 psi)**
- 💧 **Fault/empty reporting**
- 💧 **Operating temperature range -20°C to +70°C**
- 💧 **Can be used outside**
- 💧 **Temperature-independent feed rate**
- 💧 **Visual inspection possible at any time**
- 💧 **Simple operation**
- 💧 **No bleeding of the grease in the bellows**

### Quick Check

During operation Lubricus measures the counter-pressure at the lubricating point. The result is output to the display in just a few seconds - simple and without any additional effort.



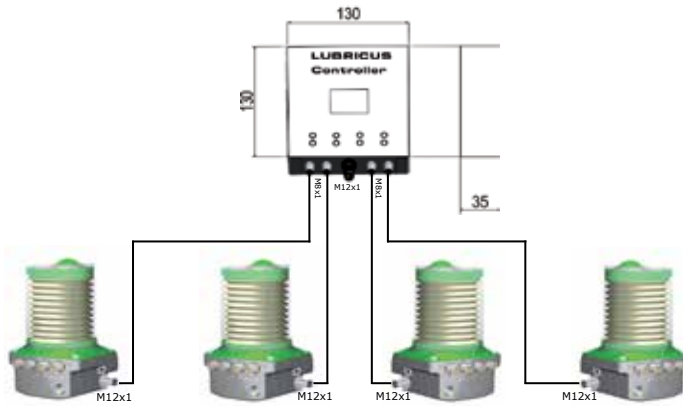
# Lubricus Controller

## Installation example



### Lubricus Controller

The Lubricus controller is used for external monitoring of the Lubricus, to which up to four Lubricus lubrication systems (4 outlets each = 16) can be connected. A connection to the PLC is possible using the Lubricus Controller. The connected Lubricus lubricating devices can be individually controlled and monitored using the controller. The dialogue takes place via a simple to operate LCD display.



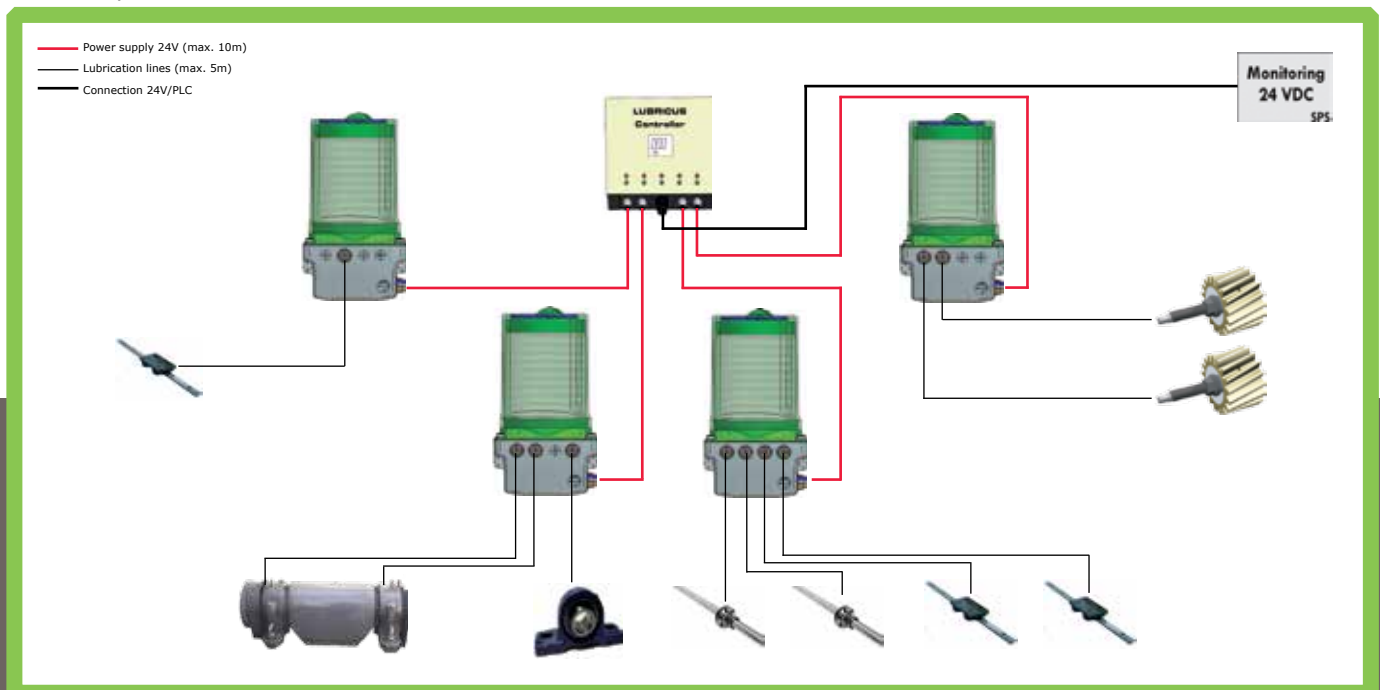
### Benefits:

- Lubricating units are attached close to the actual lubricating points
- Electronics and monitoring components can be installed in a user-friendly environment
- Central monitoring is possible (e.g. PLC)
- Ideal for difficult ambient conditions (heat, dirt)
- Monitoring of up to 16 lubrication points
- Individual supply volumes possible

### Lubricus Controller technical data

Lubricus Controller: for control of up to 4 Lubricus lubricating devices  
 Connection: M12x1 - 24VDC  
 Operating temperature range: -20°C to +80°C  
 Connection for Lubricus lubricating systems: M8x1  
 Function control via LCD and LED, simple operation using magnetic contact point

**Installation example:** The Lubricus Controller monitors and controls four Lubricus lubricating devices, which in turn supply a varying number of lubricating points. The paths, which the lubricant must travel over in the lines, can be kept simple and short, nevertheless central monitoring takes place via the Lubricus Controller. The installation and maintenance requirements are sustainably reduced.



## Lubricating gearwheel

### Lubrication of open tooth systems

Optimal supply of tooth systems is ensured over very long periods using the Lubricus lubricating gearwheel. The Lubricus lubricating system provides a variable lubricant supply.



### Lubricating gearwheel

The lubricant passes through the axle and appropriate holes in the foam material. With just a low pressing pressure, the stored lubricant is released again. The PU foam used (open-cell) stores the lubricant and releases it again in very small dosing quantities. In this way, over lubrication is effectively prevented, as is possible wear caused by a lack of lubrication.

The lubricating gearwheels are available with both straight as well as sloping right/ sloping left teeth (module 2-30). From a width of 20 mm, the lubricating gearwheel is comprised of several segments.

Different fastening axles are available for the lubricating gearwheels. Dependent on the installation or supply of lubricant, right-angled or straight axles can be used.

### Technical data

Material: Polyurethane foam, open-celled  
 Operating temp. range: -30°C to +150°C  
 Speed at the surface: max. 5m/s  
 Density: 240 kg/m<sup>3</sup>  
 Application: suitable for oil and grease  
 if requested tempered version also available

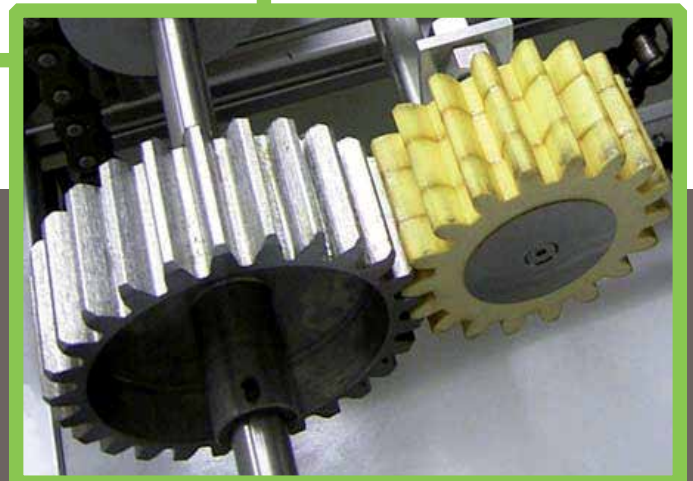
### Lubrication gearwheels for Lubricus - overview

Art-No.	Gear tooth system	Module	Width mm
<b>LAT-SZ-G</b>	lubrication gearwheel straight	2-12	20-120
<b>LAT-SZ-L</b>	lubrication gearwheel sloping left rising	2-10	20-100
<b>LAT-SZ-R</b>	lubrication gearwheel sloping right rising	2-10	20-100

You can find a detailed overview of all sizes and modules in the accessory range on p. 7 other sizes available upon request



Securing axles for lubricating gearwheels - straight or right-angled



## Chain lubricating pinion

### Lubrication of chains

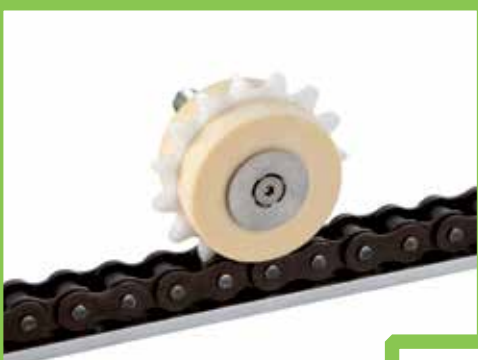
As with the lubricating of gearwheels, the lubricant passes through the axle and corresponding holes into the foam material, the pinion ensures quiet running.

### Chain lubricating pinion

The rollers from open-celled PU foam transfer the lubricant in a point-wise manner to the surfaces of the lugs of roller chains. The mechanical force to drive the rollers is ensured by a low-wear plastic pinion.

The chain lubricating pinions are, dependent on size, available for simplex and duplex chains.

The optimal contact pressure of the lubricating pinion can be individually adjusted using a tensioning element. The tensioning element can also be used for a sprung positioning of the lubricating gearwheel.

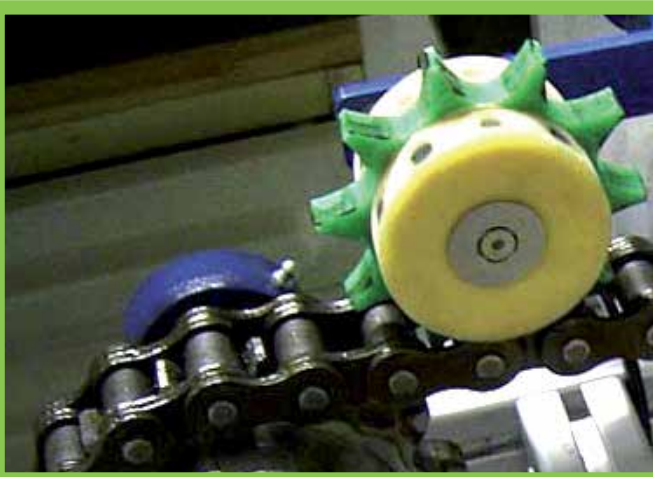


### Technical data

Material: Polyurethane foam, open-celled  
 Operating temp. range: -30°C to +150°C  
 Speed at the surface: max. 5m/s  
 Density: 240 kg/m<sup>3</sup>  
 Application: suitable for oil and grease  
 if requested tempered version also available

### Chain lubricating pinion for Lubricus

Art-No.	ISO-No.	p [inch]	simplex	duplex
<b>LAT-KR-08</b>	Lubricating pinion 08 B-1	1/2 x 5/16	x	x
<b>LAT-KR-10</b>	Lubricating pinion 10 B-1	5/8 x 3/8	x	x
<b>LAT-KR-12</b>	Lubricating pinion 12 B-1	3/4 x 7/16	x	x
<b>LAT-KR-16</b>	Lubricating pinion 16 B-1	1 x 17	x	x
<b>LAT-KR-20</b>	Lubricating pinion 20 B-1	1 1/4 x 3/4	x	
<b>LAT-KR-24</b>	Lubricating pinion 24 B-1	1 1/2 x 1	x	
<b>LAT-KR-32</b>	Lubricating pinion 32 B-1	2 x 30,99	x	



## Lubricus - types, dimensions and lubricants

### Technical data

Pressure: max. 70 bar (1015 psi)  
 Emptying time: 1-36 months  
 Min. dispensing volume: 0.15 cm<sup>3</sup>  
 Temperature range: -20°/+70°  
 Cartridge volume: 400 cm<sup>3</sup>  
 Outlets: 1-4  
 Connection: Hose 6/4mm  
 Weight: 1120g



### Lubricus - types

Art-No.		Number of outlets	Power supply	Operating temp. range	Capacity	Dialogue Display	Dialogue Controller
<b>LUB-B-1</b>	Lubricus Lubrication system	1	Bat. 3,6V	-20°/+70°	400cm <sup>3</sup>	X	
<b>LUB-B-2</b>	Lubricus Lubrication system	2	Bat. 3,6V	-20°/+70°	400cm <sup>3</sup>	X	
<b>LUB-V-1</b>	Lubricus Lubrication system	1	24 VDC	-20°/+70°	400cm <sup>3</sup>	X	
<b>LUB-V-2</b>	Lubricus Lubrication system	2	24 VDC	-20°/+70°	400cm <sup>3</sup>	X	
<b>LUB-C-1</b>	Lubricus Lubrication system	1	24 VDC	-20°/+80°	400cm <sup>3</sup>		X
<b>LUB-C-2</b>	Lubricus Lubrication system	2	24 VDC	-20°/+80°	400cm <sup>3</sup>		X
<b>LUB-C-3</b>	Lubricus Lubrication system	3	24 VDC	-20°/+80°	400cm <sup>3</sup>		X
<b>LUB-C-4</b>	Lubricus Lubrication system	4	24 VDC	-20°/+80°	400cm <sup>3</sup>		X
<b>LUB-C-1-1</b>	Lubricus Lubrication system	1+1	24 VDC	-20°/+80°	400cm <sup>3</sup>		X

### Lubricus Controller

Art-No.	Application	Operating Temperature	Power supply	Plug	Output to Lubricus	
<b>LUB-CE</b>	Lubricus Controller	System monitoring	-20°/+80°	24VDC	M12x1	M8x1

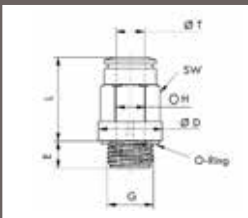
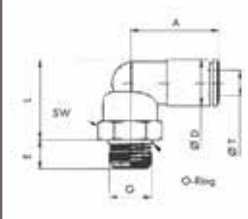
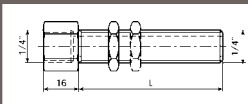


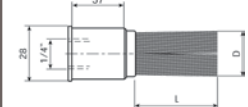
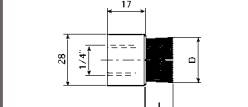
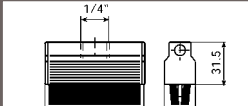
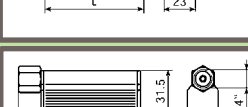

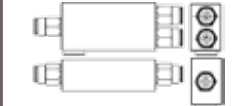
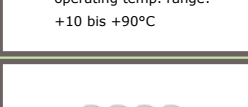
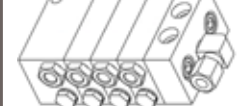

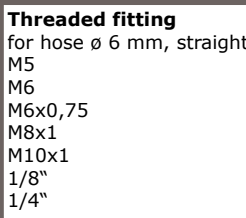
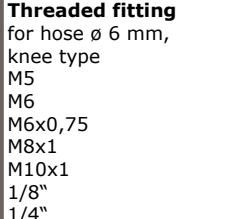
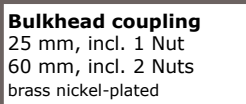
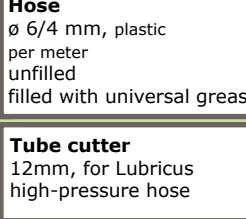
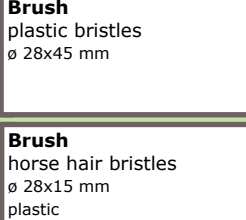
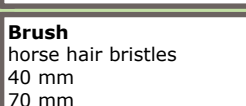
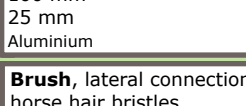
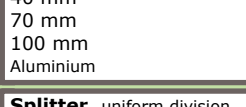
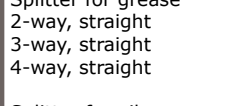
### Lubricants for Lubricus - standard fillings

Art-No.	Application	Operating temp. range	Thickener	NLGI Class	Base oil	to DIN 51502
<b>LUB-KA01</b>	Lubricus cartridge	Multipurpose grease	-20°/+120°	Li/Ca	2	Min. KP2K-30
<b>LUB-KA02</b>	Lubricus cartridge	Multipurpose with MoS <sub>2</sub>	-30°/+140°	Li	2	Synth. KPF2N-30
<b>LUB-KA03</b>	Lubricus cartridge	High temp. grease	-40°/+160°	PHS	2	PAO KHCP2P-40
<b>LUB-KA06</b>	Lubricus cartridge	Semi-fluid grease	-40°/+110°	Li/Ca	0	Min. KP0G-40
<b>LUB-KA07</b>	Lubricus cartridge	Heavy duty grease	-30°/+150°	Li/Ca	0-1	Min. OGPON-30
<b>LUB-KA09</b>	Lubricus cartridge	Biodegradable grease	-40°/+120°	Li/Ca	2	Ester KEP2K-40
<b>LUB-KA10</b>	Lubricus cartridge	Food Industry grease <small>(reg NFS-H1 No. 138985)</small>	-20°/+160°	Al	1	Min. KP1P-20
<b>LUB-KA15</b>	Lubricus cartridge	High temp. oil	-40°/+250°	-	-	Ester
<b>LUB-KA64</b>	Lubricus cartridge	Biodegradable oil	-20°/+100°	-	-	Synth.
<b>LUB-KA70</b>	Lubricus cartridge	Food Industry oil <small>(reg NSF-H1 No. 127130)</small>	-30°/+100°	-	-	Synth.

Special fillings upon request



# Lubricus accessories

	Description	Art. no.		Description	Art. no.
	<b>Threaded fitting</b> for hose $\varnothing$ 6 mm, straight M5 M6 M6x0,75 M8x1 M10x1 1/8" 1/4"	LAT 7097 LAT 7084 LAT 7085 LAT 7086 LAT 7087 LAT 7076 LAT 7079		<b>Threaded fitting</b> for hose $\varnothing$ 6 mm, knee type M5 M6 M6x0,75 M8x1 M10x1 1/8" 1/4"	LAT 7097G LAT 7084G LAT 7085G LAT 7086G LAT 7087G LAT 7076G LAT 7079G
	<b>Bulkhead coupling</b> 25 mm, incl. 1 Nut 60 mm, incl. 2 Nuts brass nickel-plated	LAT 7045 LAT 7046		<b>Hose</b> $\varnothing$ 6/4 mm, plastic per meter unfilled filled with universal grease	LAT 8002 LAT 8002-01
	<b>Tube cutter</b> 12mm, for Lubricus high-pressure hose	LAT 8077		<b>Brush</b> plastic bristles $\varnothing$ 28x45 mm	LAT 8034
	<b>Brush</b> horse hair bristles $\varnothing$ 28x15 mm plastic	LAT 8041		<b>Brush</b> horse hair bristles 40 mm 70 mm 100 mm 25 mm Aluminium	LAT 8035 LAT 8036 LAT 8037 LAT 8038
	<b>Brush, lateral connection</b> horse hair bristles 40 mm 70 mm 100 mm Aluminium	LAT 8035s LAT 8036s LAT 8037s		<b>Splitter, uniform division</b> Splitter for grease 2-way, straight 3-way, straight 4-way, straight	LAT-Split-2 LAT-Split-3 LAT-Split-4
	<b>Splitter for oil</b> 2-way, straight 3-way, straight 4-way, straight	LAT-Split-20 LAT-Split-30 LAT-Split-40		<b>Progressive distributor</b> for grease and oil progressive distributor 2-way progressive distributor 3-way progressive distributor 4-way progressive distributor 5-way progressive distributor 6-way progressive distributor 7-way progressive distributor 8-way	LAT-PRV-2 LAT-PRV-3 LAT-PRV-4 LAT-PRV-5 LAT-PRV-6 LAT-PRV-7 LAT-PRV-8
	<b>Battery for Lubricus</b> Replace with each bellows LI-Batterie 3,6V (6,5Ah)	LAT-BAT-L		<b>Simplex chain lubricating pinion</b> Incl. fastening axle Thread: M6/M10 ISO-Nr. p [inch] 08 B-1 1/2 x 5/16 10 B-1 5/8 x 3/8 12 B-1 3/4 x 7/16 16 B-1 1 x 17 20 B-1 1 1/4 x 3/4 24 B-1 1 1/2 x 1 32 B-1 2 x 30,99	LAT-KR-S-08 LAT-KR-S-10 LAT-KR-S-12 LAT-KR-S-16 LAT-KR-S-20 LAT-KR-S-24 LAT-KR-S-32
	<b>Duplex chain lubricating pinion</b> Incl. fastening axle Thread: M6/M10 ISO-Nr. p [inch] 08 B-2 1/2 x 5/16 10 B-2 5/8 x 3/8 12 B-2 3/4 x 7/16 16 B-2 1 x 17	LAT-KR-D-08 LAT-KR-D-10 LAT-KR-D-12 LAT-KR-D-16		<b>Tensioning element</b> for chain lubricating pinion Deflection: max. 50mm Tensioning force: 350N For M6 axle For M10 axle	LAT-SP-10 LAT-SP-16
	<b>Lubricating gearwheel</b> PU foam, open-celled Toothing: <b>straight</b> Module 2 (width 20mm) Module 3 (width 30mm) Module 4 (width 40mm) Module 5 (width 50mm) Module 6 (width 60mm) Module 8 (width 80mm) Module 10 (width 100mm) Module 12 (width 120mm)	LAT-SZ-G-2 LAT-SZ-G-3 LAT-SZ-G-4 LAT-SZ-G-5 LAT-SZ-G-6 LAT-SZ-G-8 LAT-SZ-G-10 LAT-SZ-G-12		Toothing: <b>sloping right</b> Module 2 (width 20mm) Module 3 (width 30mm) Module 4 (width 40mm) Module 5 (width 50mm) Module 6 (width 60mm) Module 8 (width 80mm) Module 10 (width 100mm)	LAT-SZ-R-2 LAT-SZ-R-3 LAT-SZ-R-4 LAT-SZ-R-5 LAT-SZ-R-6 LAT-SZ-R-8 LAT-SZ-R-10
	Toothing: <b>sloping left</b> Module 2 (width 20mm) Module 3 (width 30mm) Module 4 (width 40mm) Module 5 (width 50mm) Module 6 (width 60mm) Module 8 (width 80mm) Module 10 (width 100mm)	LAT-SZ-L-2 LAT-SZ-L-3 LAT-SZ-L-4 LAT-SZ-L-5 LAT-SZ-L-6 LAT-SZ-L-8 LAT-SZ-L-10		<b>Fastening axle</b> Straight, rust-free steel Fastening: M10/M16 Module 2 (width 20mm, M10) Module 3 (width 30mm, M10) Module 4 (width 40mm, M10) Module 5 (width 50mm, M16) Module 6 (width 60mm, M16) Module 8 (width 80mm, M16) Module 10 (width 100mm, M16) Module 12 (width 120mm, M16)	LAT-A-2 LAT-A-3 LAT-A-4 LAT-A-5 LAT-A-6 LAT-A-8 LAT-A-10 LAT-A-12
	<b>Fastening axle</b> Angled, rust-free steel Fastening: M8, conn. M10x1 Module 2 (width 20mm) Module 3 (width 30mm) Module 4 (width 40mm) Module 5 (width 50mm) Module 6 (width 60mm) Module 8 (width 80mm) Module 10 (width 100mm) Module 12 (width 120mm)	LAT-A-2G LAT-A-3G LAT-A-4G LAT-A-5G LAT-A-6G LAT-A-8G LAT-A-10G LAT-A-12G		<b>Cable</b> Plug M12x1, M8x1 (Contr.) Can be used with drag chain 5m M12x1, open end 10m M12x1, open end 5m M12x1, outlet M8x1 10m M12x1, outlet M8x1 5m M12x1, LED 10m M12x1, LED M8x1 plug-connection 4 ping	LAT-WI-0-5 LAT-WI-0-10 LAT-WI-8-5 LAT-WI-8-10 LAT-WI-LED-5 LAT-WI-LED-10 LAT-WIS-8-4
	<b>Power supply unit</b> 230V/24VDC connecting cable with plug (Europe version)	LAT-8080			

modern lubrication technology

intelligent lubricating system

from innovative single-point lubricant lubricators through to high-performance multi-point systems

