

# Automatic Maintenance Systems

The key to effective maintenance and upkeep



Development, production,  
installation and service  
from a single source



# Automatic maintenance systems made by BEKA

BEKA - the synonym for innovative and high-quality central lubrication systems. State-of-the-art technology, a comprehensive product range and worldwide presence ensure customized solutions for every request. Technology you can rely on.

## Disadvantages of a manual lubrication

When using a manual lubrication, lubricant is applied at a non-operating machine and can not distribute itself. The bearing is "overfilled" with grease and surplus grease comes out without the effect of lubrication. The consequences are fatal: the lube point is not sufficiently lubricated, the grease film at the friction point is used up very quick, hence wear and abrasion increase rapidly.

Example transmission chain: Steady maintenance increases the life time decisively.



BEKA delivers various efficient chain lubrication systems.

## BEKA - the key for efficient maintenance

A BEKA lubrication system supplies the high-loaded machine bearing points during the operation. Lubricant is reliably applied onto the complete bearing. Also bad accessible lube points are not forgotten. The grease film is renewed permanent with the lowest and exactly metered quantity. Hence a steady distribution in the bearing is ensured, with the effect of a drastic wear reduction and the related cost savings.

## BEKA: The full liner in central lubrication

BEKA offers a wide range of lubrication and maintenance systems for all types of use. Out of the main competence of industry and vehicle lubrication BEKA has made itself a name with high-tech applications for special lubrication problems as well as with innovative solutions in the sectors of environmental technology and monitoring electronic. Every tenth employee of BAIER + KÖPPEL works in the research and development sector. Our main focus is to develop customized solutions.

## Quality you can rely on.

The customer's satisfaction stands or falls with the quality of the delivered products. Due to this reason the quality assurance at BAIER + KÖPPEL plays a central role.

BEKA is certified according to DIN EN 9001 : 2008 and DIN EN 14001 : 2009.



## Development, production, installation and service from a single source!

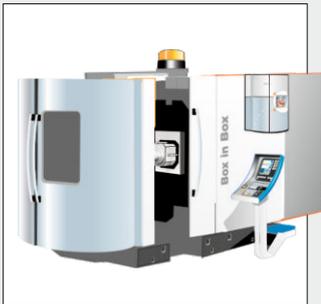


24 hours 365 days on the road for you: The BEKA-service team



Always the optimal lubrication system: Depending on the case of application, we offer our customers tailor-made configured solutions, which are made up of one or more different lubrication systems. From a simple lubricator up to high-tech maintenance systems!

**Our specialists will be pleased to inform you!**



### The single line system

Concerning a single line system, lubricant is supplied via a main line to the distributors under intermittent pressure and is applied onto the lube points in metered quantities. The advantages of this single line system are the simple design, installation and maintenance as well as an easy retrofitting.

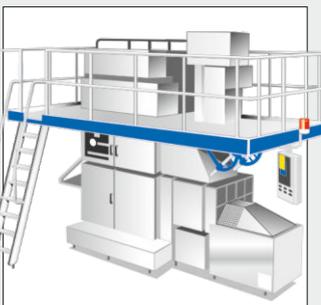
**Example for application:** Lube point supply of small and medium-sized machines, machine assemblies and systems like e.g. tool-, textile-, and packing machines.



### The multi line system

The multi line system effectuates that lubricant is passed on via several pump outlets in particular quantities. Each outlet can be adjusted individual and is directly lead to the lube point.

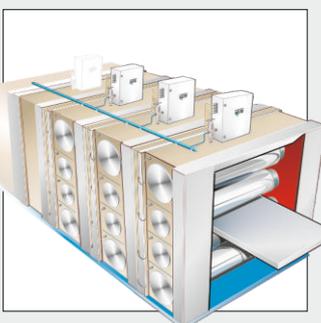
**Example for application:** Perfect solution for machines and machine assemblies with a small number of lube points like a presses, cranes, compressors and wind power plants.



### The dual line and progressive system

The dual line system is the classic solution for big systems. An advantage of a progressive distributor is that many lube points are provided with lubricant with only one supply line.

**Example for application:** A dual line system is used at machines and systems whose lube points are far apart from each other like rolling mills, timber yards and overburden dredgers. Progressive system: for machines and systems with many lube points like presses, stamping machines or cranes.



### The oil circulating system

The oil circulating system is responsible for the lubrication and cooling of large machines and systems. BEKA plans and manufactures oil circulating systems, beginning from the pump station up to a complete pipe system, according to customer's demand.

**Example for application:** Oil circulating systems, with a circulating capacity up to 100.000 litres, are used in large presses, large transmissions, rolling mills and printing machines.



# The automatic Single Point Lubricator

Lubricant capacity 120 ml

# BEKA<sup>®</sup> ONE 120

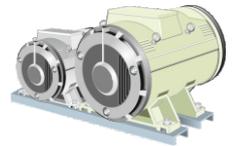
The ideal solution for reliable supply of standalone lubrication points!

Made in GERMANY 

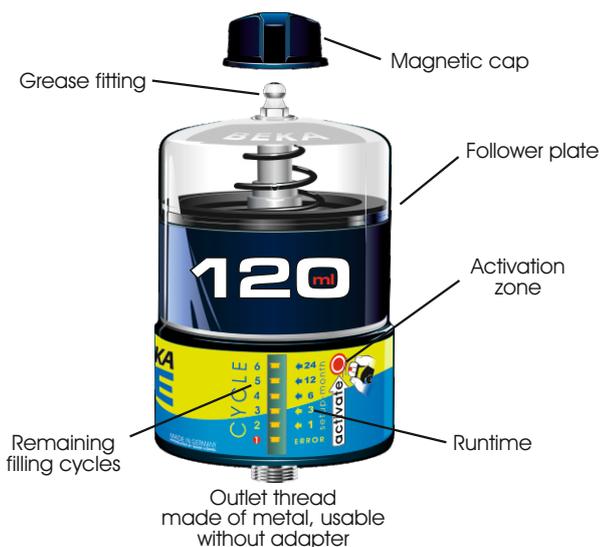
## BEKA ONE

-  ...has an **electromechanic drive** and a very high **dosing accuracy**. Controlled and monitored by **microcontroller**.
-  ...can be used within a **wide temperature range**: From **-20 °C** up to **+60 °C** (with suitable lubricant).
-  ...cares for **reliable lubricant supply**: Up to **24 months** per filling!
-  ...can be filled up to **6 times**. This corresponds to a total lubricant capacity of **720 ml**.
-  ...can be **filled easily** and **quickly** with a **grease gun**. **Low costs** by the use of grease from standard cartridges.
-  ...offers **low service costs**: Filling **without dismantling** or **change of cartridges**.
-  ...has a **higher output pressure** than conventional devices and can also be used for applications with **higher counterpressure**.
-  ...**saves the lubricant**: No permanent pressure on the lubricant. Therefore **suitable** for **lubricants with separation tendency**.
-  ...is available **with or without filling**. **Special lubricants on demand**.

RUNTIME up to  
**24**  
MONTHS



MAXIMUM  
**10**  
BAR  
PRESSURE



Indirect connection with hose line possible!

Lubricant volume:	120 ml (refillable)
Discharges:	Up to 6 = 720 ml
Lubricant:	Oil or grease up to NLGI cl. 2
Temperature range:	-20 °C to +60 °C (with suitable lubricant)
Operating pressure:	Up to 10 bar
Diameter / height:	70 mm / 127 mm
Protection class:	IP 65 (with membran sticker)
Power supply:	LI batteries
Runtime per filling:	1 / 3 / 6 / 12 / 24 months
Lifetime of batteries:	Up to 48 months
Fixing thread:	External thread R1/4
Order number:	20870001 (without filling)

AT2078000117 EN 1090200597



The lubricator for every kind of application



# The automatic Single Point Lubricator

Lubricant capacity 250 ml

# BEKA<sup>®</sup> ONE 250

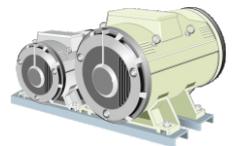
The ideal solution for reliable supply of standalone lubrication points!

## BEKA ONE

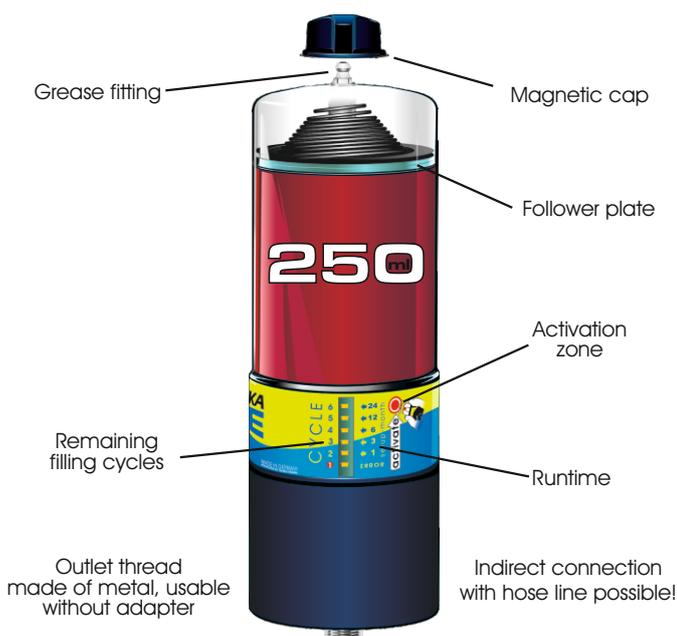
Made in GERMANY 

-  ...has an **electromechanic drive** and a very high **dosing accuracy**. Controlled and monitored by **microcontroller**.
-  ...can be used within a **wide temperature range**: From **-20 °C** up to **+60 °C** (with suitable lubricant).
-  ...cares for **reliable lubricant supply**: Up to **24 months** per filling!
-  ...can be filled up to **6 times**. This corresponds to a total lubricant capacity of **1500 ml**.
-  ...can be **filled easily** and **quickly** with a **grease gun**. **Low costs** by the use of grease from standard cartridges.
-  ...offers **low service costs**: Filling **without dismantling** or **change of cartridges**.
-  ...has a **higher output pressure** than conventional devices and can also be used for applications with **higher counterpressure**.
-  ...**saves the lubricant**: No permanent pressure on the lubricant. Therefore **suitable** for **lubricants with separation tendency**.
-  ...is available **with or without filling**. **Special lubricants on demand**.

RUNTIME up to  
**24**  
MONTHS



MAXIMUM  
**10**  
BAR  
PRESSURE



Lubricant volume:	250 ml (refillable)
Output:	0,24 ml/stroke
Emptyings:	Up to 6 = 1500 ml
Lubricant:	Oil or grease up to NLGI cl. 2
Temperature range:	-20 °C to +60 °C (with suitable lubricant)
Operating pressure:	Up to 10 bar
Diameter / height:	70 mm / 243 mm
Protection class:	IP 65 (with membran sticker)
Power supply:	LI batteries
Runtime per filling:	1 / 3 / 6 / 12 / 24 months
Lifetime of batteries:	Up to 48 months
Fixing thread:	External thread R1/4
Order number:	20870008 (without filling)



The lubricator for every kind of application



### Description

The high pressure lubrication gun HAP is used for the lubrication of half automatic central lubrication systems.

The battery-powered device with integrated flow meter is connected to the lubrication nipple of the single line / progressive distributor via a high pressure hose. When actuating the grease gun, lubricant is supplied to the distributor with high pressure.

The grease quantity can be checked at the flow meter and hence an exact quantity of lubricant per distributor is ensured.

A grease volume counter can, additionally to the analogue indication, be installed to monitor the lubricant demand.

The lubrication of individual lube points via lubrication nipple is possible.

### Order numbers

High pressure grease gun	Order-no.
w/o grease volume counter (standard)	04951106
high pressure grease gun HAP 14,4 V with reservoir, Li-Ion battery, high pressure hose with mouth piece, battery charger and suitcase (ca. 480 x 390), see pos. 1, 2, 3, 4, 6, 7	
with grease volume counter	04951107
standard with add. grease volume counter Pos. 5	

Individual components	Order-no.
Pos. 1: pump unit complete with motor and handle	0496020199
Pos. 2: grease reservoir comp.	0496020200
Pos. 3: battery pack Li-Ion	0496020201
Pos. 4: battery charger	0496020202
Pos. 5: grease volume counter with fittings	0496020204
Pos. 6: suitc. (ca. 480 x 390 mm)	0496020205
Pos. 7: high pressure hose 750 mm with mouth piece	0496020203

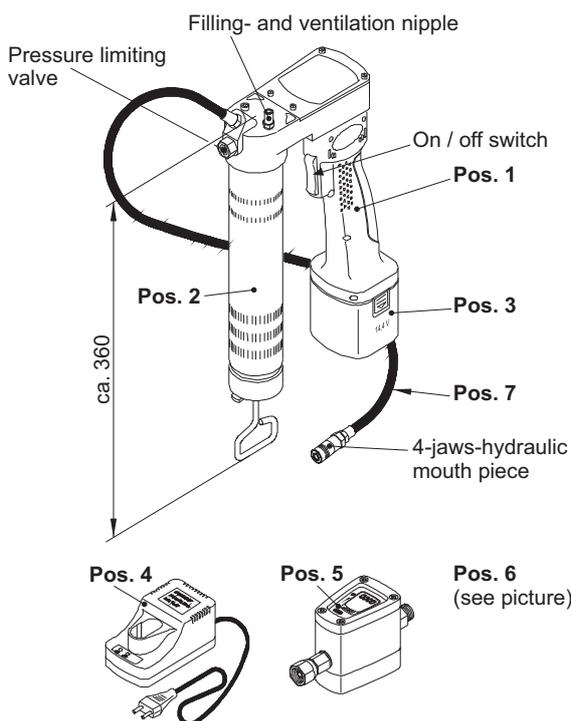
Accessories	Order-no.
Slide coupling DIN 3404 M10x1/10 mm	0496020206
Slide coupling DIN 3404 M10x1/16 mm	0496020207
Slide coupling DIN 3404 M10x1/22 mm	0496020208



### Technical data

Operating pressure	400 bar
Flow rate	100 ccm/min*
Accu voltage	14,4 V
Capacity	3000 mAh
Recharging time	1,5 h
Flow meter	up to 2000 ccm/min
Operating temperature	-18°C to 50°C
Lubricants	greases up to NLGI 000 to 2 in 400 g grease cartridges acc. to DIN1284 or 500 cm <sup>3</sup> loose grease

Overload protection by pressure limiting valve



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08-5-40-02 state: 06.18 EN

**Overview**

Grease lubrication pumps

**PICO - electric drive**



Model	Type	max. no. of outlets	Delivery volume max. (cm <sup>3</sup> / stroke and outlet)	Reserv. capacity (kg)	System	Pump speed 1 rev. = 1 stroke (r.p.m.)	Max. operating pressure (bar)	Operating voltage
PICO	2185	8	0,005 / 0,010 / 0,015 / 0,025 / 0,05	1,2	multiline	15	200	12 V DC 24 V DC
		2	0,12		progressive			

**Series FK...-OC / FK...-EP - drive electric or rotating**



**FKGGM-OC**  
DC

**FKGGM-OC**  
with PSU,  
115 or 230 V AC

**FKGM-OC**  
AC / 3~

**FKGGM-EP**  
DC

**FKGGM-EP**  
with PSU,  
115 or 230 V AC

**FKGGM-EPC**  
with control,  
100 to 250 V AC

Model	Type	Max. outlets	Max. delivery volume (cm <sup>3</sup> / stroke and outlet)	Res. capacity (kg)	Reduction	Drive speed motor / shaft (r.p.m.)	Pump speed 1 rev. = 1 stroke (r.p.m.)	Max. press. (bar)	Operating voltage
FKGGM-OC	2154	21	0,005 0,010 0,015 0,025 0,050	1,9 2,5	80:1 / 150:1 / 300:1 / 400:1 / 600:1 / 1200:1	1500 at 50 Hz 1800 at 60 Hz	15	200	12 V DC 24 V DC
FKGGM-OC with PSU	2024								115 V AC 230 V AC
FKGM-OC	2016 N								AC / 3~
FKGGM-EP	2018	3	0,06 - 0,17	4,2 8,0	-	-	15	350 **	12 V DC 24 V DC
FKGGM-EP with PSU	2037								115 V AC 230 V AC
FKGGM-EPC with control	2036								100 V to 250 V AC

\*\* Pressure limiting valve adjusted to 280 bar

Subject to alterations!

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06-2-10-04 state: 06.18EN

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### Series FK...-OC / FK...-EP - Drive electric or rotating (continuation)



**FKGM-EP**  
AC / 3~



**FKGM-EP**  
with norm motor,  
400 V AC / 3~



**FKG-EP**  
rotating, with flange 56 C  
acc. to NEMA (USA)



**FKR-EP**  
rotating

Model	Type	Max. outlets	Max. delivery volume (cm <sup>3</sup> / stroke and outlet)	Res. capacity (kg)	Reduction	Drive speed motor / shaft (r.p.m.)	Pump speed 1 rev. = 1 stroke (r.p.m.)	Max. press. (bar)	Operating voltage
<b>FKGM-EP</b>	2013 N	6	0,06 - 0,17	1,9 / 2,5 / 4,2 / 8,0	(80:1)* / 150:1 / 300:1 / 400:1 / 600:1 / 1200:1	1500 at 50 Hz 1800 at 60 Hz	-	350**	AC / 3~
<b>FKGM-EP</b> with standard motor	2014	8		1,9 2,5 4,2 8,0		1500 at 50 Hz 1800 at 60 Hz			400 V AC / 3~
<b>FKG-EP</b> with flange 56 C acc. to NEMA rotating				2015		7	(2 / 4 steel)		-
<b>FKR-EP</b> rotating					14:1 / 19:1 / 28:1 / 57:1				

\* special requests after consultation \*\* Pressure limiting valve adjusted to 280 bar

### Series GIGA / GIGA PLUS - electric drive



**GIGA PLUS (DC/AC)**  
4 l reservoir  
without control



**GIGA PLUS (DC/AC)**  
8 l reservoir  
GIGA-tronic control



**GIGA PLUS (DC/AC)**  
16 l reservoir  
GIGA-multitronic control

Drive version	Type	max. outlets	max. delivery volume (cm <sup>3</sup> / stroke and outlet)	Reserv. content (l)	System	Control	Pump speed 1 rev. = 1 stroke (r.p.m.)	max. press. (bar)	Operating voltage
<b>GIGA</b>	2172A	3	0,12 / 0,25	4	progressive	without	17	300 *	12 V DC 24 V DC 100 V to 250 V AC
<b>GIGA PLUS</b>	2172P		8	0,25		16			
	2172S		sectional		GIGA-multitronic				
	2172E				w/o				
	2172Z				dual line				

\* pressure limiting valve adjusted to 280 bar

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Subject to alterations!

**Overview**

Grease lubrication pumps

**Series F** - drive see table



**F6** rotating      **F6** with geared motor      **F-super** with geared motor      **F-super** rotating      **F-super 3** with geared motor      **F-super 3** rotating

Model	Type	Out-lets max.	Delivery volume max. (cm <sup>3</sup> / stroke and outlet)	Reserv. content (kg)	Reduction	Input speed motor / shaft (rpm)	Pump speed 1 rev. = 1 stroke (rpm)	Press. max. (bar)	Operating voltage	
<b>F6</b> rotating	2032	20	0,06 - 0,17	5 7,5 10	9:1 / 18:1 / 25:1 / 36:1 / 50:1	-	min. 1 max. 25	250*	230 / 400 V AC / 3~	
<b>F6</b> w. geared motor	2034				135:1 / 270:1 / 375:1 / 450:1 / 540:1 / 600:1 / 750:1 / 900:1 / 1250:1/1800:1/ 2500:1	2800 at 50 Hz 3300 at 60 Hz	-			
<b>F-super</b> w. geared motor	2050				88:1 / 165:1 / 280:1 / 410:1 / 600:1 / 800:1 / 1000:1	1420 at 50 Hz 1700 at 60 Hz	-			
<b>F-super</b> rotating	2051	21	0,06 - 0,17	5 10	15:1 / 22,5:1 / 45:1	-	min. 1 max. 25	350**	-	
oscillating	2052				2,5:1	-				
<b>F-super 3</b> w. geared motor	2053	3 (4= special version)	0,56	48 65 100	46:1	1420 at 50 Hz 1700 at 60 Hz	-	400	230 / 400 V AC / 3~	
<b>F-super 3</b> rotating	2054				15:1 / 22,5:1 / 45:1	-	min. 1 max. 25			-
oscillating	2055				2,5:1	-				

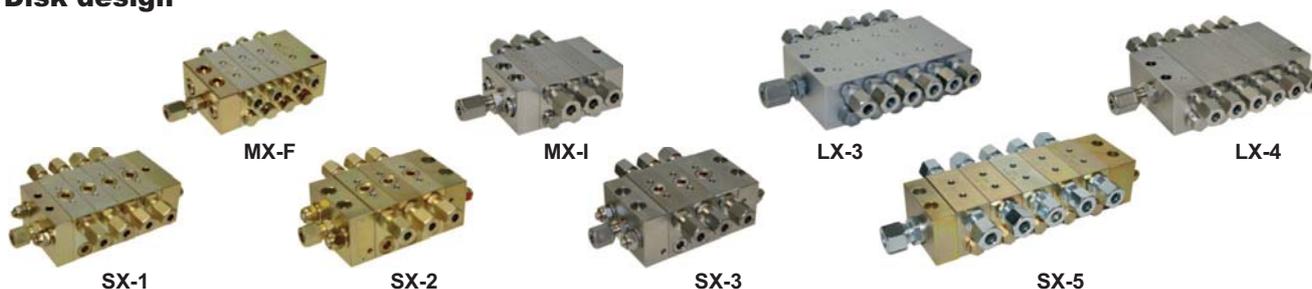
\* pressure limiting valve adjusted to 250 bar, \*\* pressure limiting valve adjusted to 280 bar

06-2-10-06 state: 06.18EN

Subject to alterations!

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#### Disk design



Designation	Type	max. revolutions / min	max. pressure (bar)	max. no. of outlets	Inlet connection	Outlets connection	Material	Dosage volume (mm <sup>3</sup> /stroke per outlet)	Medium	Features
<b>MX-F</b>	4010	180	300	24	M10x1	M10x1	steel*	25 - 105	oils and greases up to NLGI-cl. 2	- use in mobile range (on- and off-road vehicles, agricultural and construction machinery, etc.) - special coating for hardest operating conditions available
<b>MX-I</b>	3979	60	300	16	M10x1	M10x1	1.4404	45 - 105		- especially suitable for food industry and aggressive environment - highest material quality (1.4404)
<b>LX-3</b>	3973	60	300	20	M10x1	M10x1	1.4404 1.4401	200		- perfectly suitable for beverage and packing industry - 100 % compatible dimensions and output rate to similar block distributors
<b>LX-4</b>	3950	180	300	20	M10x1	M10x1	steel*	50 - 200		- clearly less space necessary due to various dosage possibilities - high metering flexibility
<b>SX-1</b>	4000	180	300	20	G 1/8	G 1/8	steel*	68 - 430		- due to up-positioned sealing washers, easy outlet combination without loosening of pipe lines and fittings
<b>SX-2</b>	3989	180	300	20	G 1/8	G 1/8	steel*	75 - 470		- see SX-1 - compact construction but high volume flow
<b>SX-3</b>	4008	60	300	20	G 1/8	G 1/8	1.4301	75 - 470		- alternative to SX-2, but with V2A (1.4301) - especially suitable for food industry and aggressive environment
<b>SX-5</b>	3983	180	300	20	G 3/8	G 1/4	steel*	75 - 470		- large connection threads - especially suitable for minery area
<b>UX</b>	4005	180	250	20	G 1/2	G 3/8	steel*	1130 - 2000		- outlets positioned upwards; easily detachable when swivel joints are used at the pipe lines

\* corrosion protection category corresponds to a protection period of up to 720 h red rust resistance

The dual line system can be used for large systems with main line lengths of more than 100 m and several 100 lube points. Several distributors can be arranged serially.

There are different types of dual line distributors and change-over valves available, depending on the application (see overview).



BV



BW



B XK



Model	Type	Pressure max. (min.)	No. of outlets max.	Connection inlets	Connection outlets	Material	Metering volume (mm <sup>3</sup> /stroke per outlet)	Lubricant	Features
<b>BV</b>	3981	400 (35)	8	G 1/4	G 1/4	steel*	70 100 150 220 300	oils and grease up to NLGI cl. 2	- Screws with permanently adjusted metering volume can be combined, finely graded
<b>BW</b>	3980	400 (35)	8	G 1/4	G 1/4	steel*	300 500 750 1000 1250 1500		- Features as for BV
<b>B XK</b>	3962	400 (35)	8	G 3/8	G 1/4	steel*	200-1500 (adjust.)  300 500 750 1000 1250 1500		- Metering volume adjustable by <b>set screw</b> - Function control by visible or invisible pin - simple combination of outlets or metering volume
									- Metering volume adjustable by <b>set screw</b> - Function control by visible or invisible pin - simple combination of outlets or metering volume

\* corrosion protection category corresponds to a protection period of up to 720 h red rust resistance

\*\* other materials on demand

**Overview**

Dual line components



**BZ**



**BY**



**UXZ**

Model	Type	Pressure max. (min.)	No. of outlets max.	Connection inlets	Connection outlets	Material	Metering volume (mm <sup>3</sup> /stroke per outlet)	Lubricant	Features
<b>BY</b>	4236	400 (35)	4	G 3/8	G 1/4	steel*; 1.4305	1000 - 15000 (adjust.)		- Features as for BXK
<b>BZ</b>	4001	400 (35)	8	G 3/8	G 1/4	steel*; 1.4305 1.4404	250 - 3000 (adjust.)		- Features as for BXK
<b>UXZ</b>	4006	250	20	G 3/8	G 3/8	steel*	1130 1500 2000	oils and grease up to NLGI-cl. 2	- middle elements with different metering volume easily exchangeable - combination of outlets or of metering volume possible - simple electrical function monitoring by installation of a proximity switch, retrofit possible

\* corrosion protection category corresponds to a protection period of up to 720 h red rust resistance  
\*\* other materials on demand

05-1-00-02 state: 06.18EN

Subject to alterations!

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Overview

Metering elements

Single line distributors



NV



UEN-2



GVO-1



BL-1 2-fold



BL-11

Model	Type	Operating pressure max. (bar)	Number of outlets	Connection inlet	Connection outlet	Material	Metering volume optional (mm <sup>3</sup> / stroke and outlet)	Metering medium
NV	4020	45	1 to 6*	M16x1,5	M8x1	Housing: Zn diecasting additional part: brass	100 - 1000	oils; fluid grease NLGI-cl. 000, 00
UEN-2	4132	300	1 to 8	G 1/4	M10x1	aluminium	50 - 400	fluid grease; grease up to NLGI-cl. 2
GVO-1	4126	70	1 to 15	M10x1 1/8-27 NPTF	pipe Ø 4 pipe Ø 1/8"	steel **	16 - 50	oil; fluid grease NLGI-cl. 000, 00
BL-1	4125	240	1 to 6	3/8-18 NPT	1/8-27 NPT		200 - 1200 adjustable	fluid grease, grease up to NLGI-cl. 2
BL-11			1	1/2-14 NPTF	1/4-18 NPTF	1000 - 11000 adjustable		

\* no. of outlets can be increased by a connector

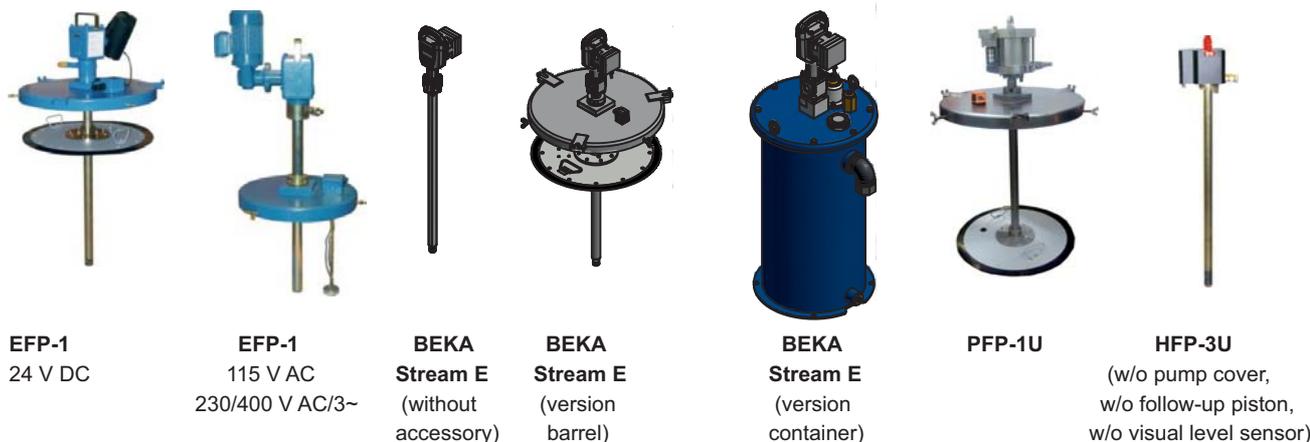
\*\* corrosion protection category corresponds to a protection period of up to 720 h red rust resis

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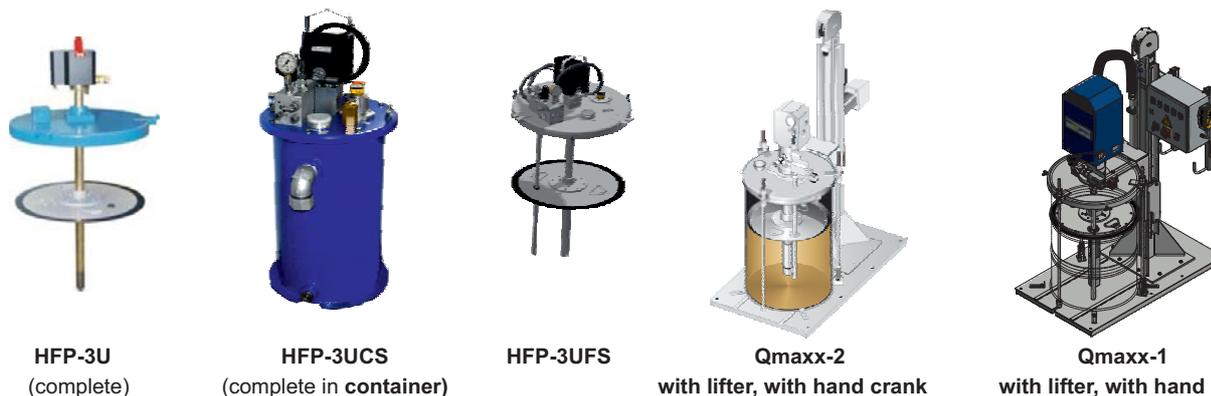
Subject to alterations!

**Overview**

Barrel pumps



Model	Type	Drive	Delivery vol. max. (cm <sup>3</sup> / stroke)	Barrel size	Operating voltage	Drive pressure (bar) / -volume (l / min)	Operation-press. max. (bar)
EFP-1	2196	electrical	0,33	20 / 25 / 50 / 200 kg	24 V DC	-	300*
	2197				115 V AC 230/400 V AC/3~	-	
BEKA Stream E w/o accessory	2520	electrical	120 (cm <sup>3</sup> / min)	barrel 213 l container 41 / 54 / 68 l	24 V DC	-	350
BEKA Stream E version barrel or container	2521						
PFP-1U	2690	pneumatic	26	20 / 25 / 50 / 200 kg	-	4 - 6 / max. 134	300*
HFP-3U with or without: pump cover, follow-up piston, visual lev. sensor	2198	hydraulic	26	20 / 25 / 50 / 200 kg	-	35 up to 60 / 0,75 up to 4,5	350**
HFP-3UCS	2395	hydraulic	26 (double stroke)	41 / 54 / 68 liter	-	26 up to 55 / 6,5 max.	275
HFP-3UFS	2395F			213 liter			
Qmaxx-2	2179	hydraulic	9000 (cm <sup>3</sup> / min)	200 kg	-	max. 100 / max. 40	100
Qmaxx-1	2187	electrical	9000 (cm <sup>3</sup> / min)		400/500 V AC/3~	-	



\* pressure limiting valve set to max. 280 bar  
 \*\* pressure limiting valve set to max. 300 bar  
 Subject to alterations!

**Segmented  
lubrication pin.  
for gears**



**Lubrication pinion  
for gears**



**PU-lube pinion  
for gears**

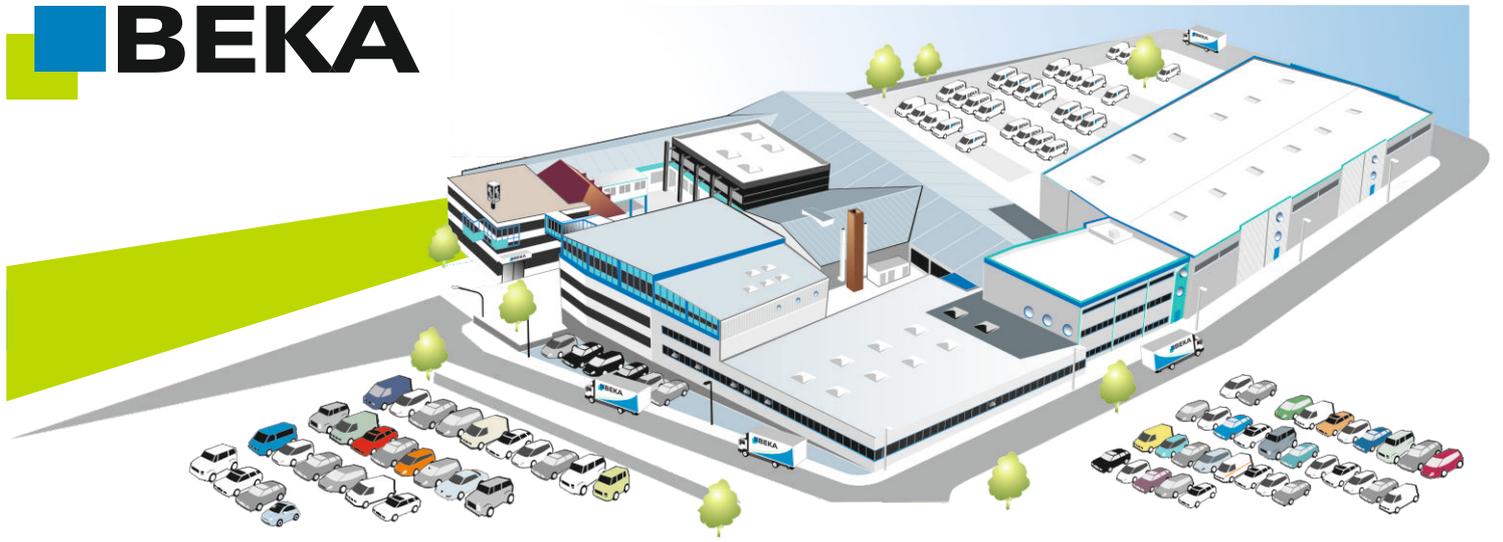


**PU-lube pinion  
for chains**



Lubrication pinion

	Segmented lubrication pinion for gears	Lubrication pinion for gears	PU-lube pinion for gears	PU-lube pinion for chains
<b>Material lubrication pinion</b>	Aluminium, plastic	Aluminium	Polyurethane-foam open celled	Polyurethane-foam open celled
	retainer, shaft: steel	retainer, shaft: steel	axis: steel galvanized or stainless steel	axis: steel galvanized or stainless steel
<b>Lubricant</b>	grease up to NLGI 2	grease up to NLGI 2	oils and greases up to NLGI 2	oils and greases up to NLGI 2
<b>Operating temperature</b>	-20 to +70 °C	-20 to +70 °C	-30 to +150 °C	-30 to +150 °C
<b>Version</b>	segmented	one part two parts three parts four parts	gears: straight sloping right sloping left	Simplex Duplex Triplex



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