



ACU

CHAIN LUBRICATION

PURPOSE

The ACU oil lubrication pump with accessories is used as a mechanical pump that dispenses oil into the lubrication brushes for chain lubrication.

APPLICATION

The pump is designed for applications requiring continuous lubrication of chain drives, especially in agricultural and industrial machinery.

DESCRIPTION

The ACU oil lubrication pump is a multi-port piston device with a cam drive, designed to supply up to 12 separate outputs. It is characterized by high durability and reliability, and is an ideal solution for lubrication systems operating in demanding conditions. The ACU model allows the configuration of up to six pistons with adjustable lubricant dosing to 12 outputs. The pump is available in several gear ratio variants, which allows for precise adjustment of the dosing according to the specific requirements of the application. During the ordering process, it is possible to specify the merging of outputs according to the customer's wishes - merging individual outputs allows to achieve the required lubricant flow rate and adapt the dosing to specific operating conditions.

FUNCTION

By rotating the shaft, the cam and pistons move via a worm gear. The pistons suck oil from the tank and dispense a precisely specified amount of oil into the outlet fitting and brush. Oil always comes out of each outlet, **no outlet may be plugged**. To reduce the number of outlets, use Y-couplings to connect two outlets into one. An example of the connection of the entire chain lubrication system is shown in the figure below. The tank is connected to the lubricator with a TR10 hose. The tank must be placed above the lubricator.

The output hydraulic fitting is connected to the brushes with a TR4 hose. In case of connecting two outlets into one, use a Y-coupling.

TECHNICAL PARAMETERS

Technical parameters of the ACU oil lubrication pump:

Max. working pressure		10 bar
Lubrication dose		max. 60 mm ³
Dosage ratio:	ACU 7.6-8	7,6 : 1
	ACU 11.5-8	11,5 : 1
	ACU 25-8	25 : 1
	ACU 50-8	50 : 1
Number of outlets		12
Inlet fitting		Ø 10 mm
Outlet fitting		Ø 4 mm
Suction height		≤ 500 mm
Oil tank:		4 L – plastic (filter 20 µm) 7 L – plastic (filter 20 µm)
Lubricant	Oil	min. 50 mm ² /s
Drive		Mechanical / splined shaft
Max. drive shaft speed:	ACU 7.6-8	200 RPM
	ACU 11.5-8	300 RPM
	ACU 25-8	600 RPM
	ACU 50-8	600 RPM

SETTINGS

Adjust the dose size of the 12 separate outlets using a flat screwdriver. Turn the screws as shown in the picture below. By screwing in, you reduce the stroke of the pistons and thus the dose.



FREQUENCY	DOSE (mm ³ /stroke)	FREQUENCY	DOSE (mm ³ /stroke)
0	60	9	31
1	57	10	27
2	53	11	24
3	50	12	21
4	47	13	17
5	44	14	14
6	41	15	11
7	37	16	8
8	34	17	4

To merge two hoses into one, use a Y-connector:



The grease brush can be positioned on the holder in one axis:



The drive of the lubricator is connected to the shaft using a hose and clamps:



MAIN COMPONENTS



Order number	Type
9 11 0861	ACU 7.6 - 8
9 11 0863	ACU 11.5 - 8
9 11 0865	ACU 25 - 8
9 11 0897	ACU 50 - 8



Order number	Type
425 050 310 004	Y-connector TR4



Order number	Type
425 008 110 007	Oil tank 4L
425 008 110 008	Oil tank 7L



Order number	Type
24 3814	Brush holder
11 40001	Brush
425 000 001 435	Fittings
425 000 006 115	P-clip

Order number	Type
1301100	Plastic tube \varnothing 4mm
1301400	Plastic tube \varnothing 10mm

QUALITY ASSURANCE

Made in EU



We are manufacturer of central lubrication systems, lubrication technology, hydraulics and special systems for rail vehicles.

Our company builds on more than 80-year of tradition in mechanical engineering production; together with an emphasis on production quality and investments into technical development, this guarantees a high level of supplied products and services.

We provide project design based on customer requirements and technical specifications, delivery, installation and commissioning directly at the customer's site. Our after-sales services include service, preventive maintenance, spare parts supply and consultancy.

All the company's activities are carried out in accordance with the quality management system according to ISO 9001:2015 and the environmental management system to ISO 14001:2015. Other certified processes of our company include welding with CL1 level certification according to EN 15085-2+A1:2023.

WHERE YOU CAN FIND US



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