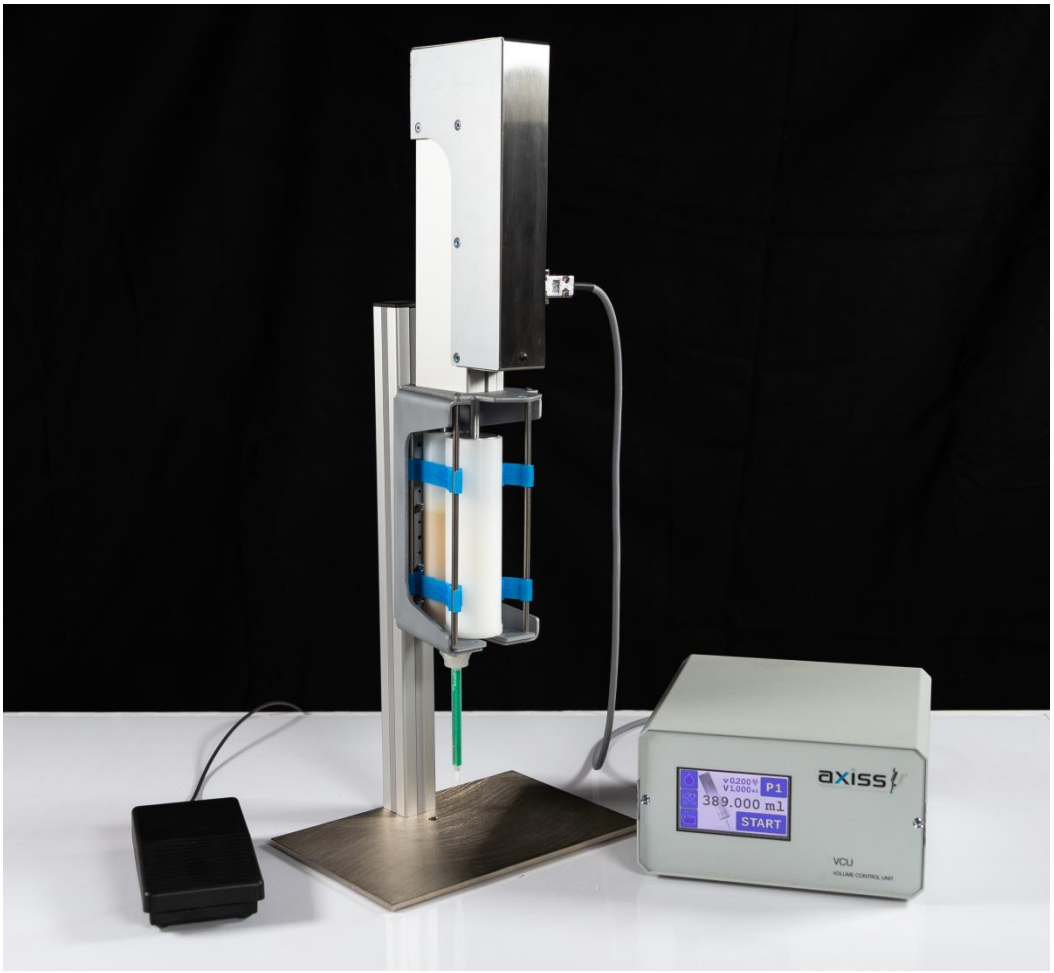
Instruction manual

e-dispenser 400



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Attention!

During operation, when the controller is switched on (machine control / external controller) you are not allowed to disconnect the motor cable of the dosing valve. This can lead to damage to the motor driver. In this case, axiss GmbH does not provide a guarantee.

1. Description

The e-Dispenser 400 is an electrical valve for dosing 2k duo-cartridges with a drive via gear servo motor with a ball screw spindle.
The pistons move parallel to each other.
The mixing ratio results from the cartridge geometry.
The material in the cartridge is relaxed via a withdrawal and thus prevents a dripping.
Parameters such as dosing volume, dosing speed, etc. can be entered via the controller or software.
Mixing conditions of 1: 1/1: 2/1:10 are possible.

This valve is suitable for dosage of media up to 180.000 mPas.

2. DUO-cartridge replacement

Attention!

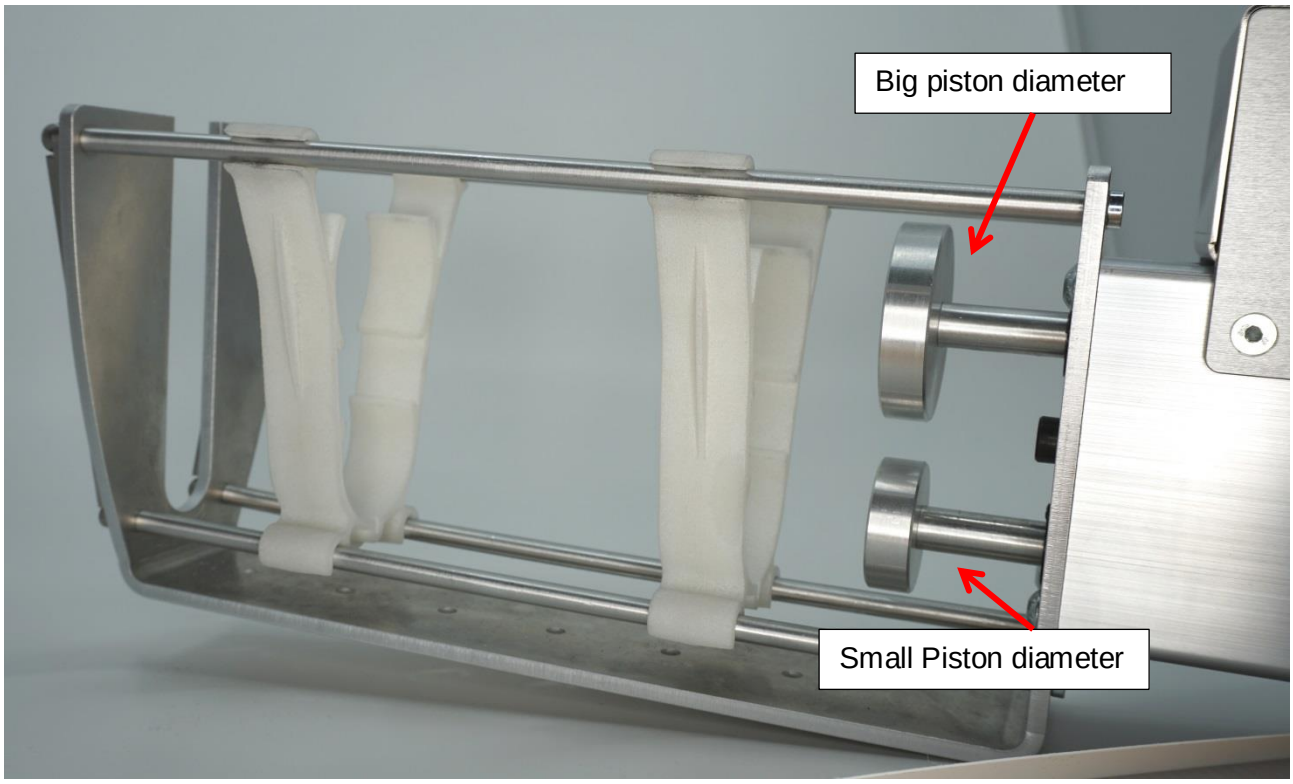
Never unscrew the pistons or the attachment plate of the spindles, so that the spindles can drive into the drive block completely - otherwise it can cause damage or break the housing!

Before replacing the cartridge, make sure that the guide rods of the electronic style have driven to the top!

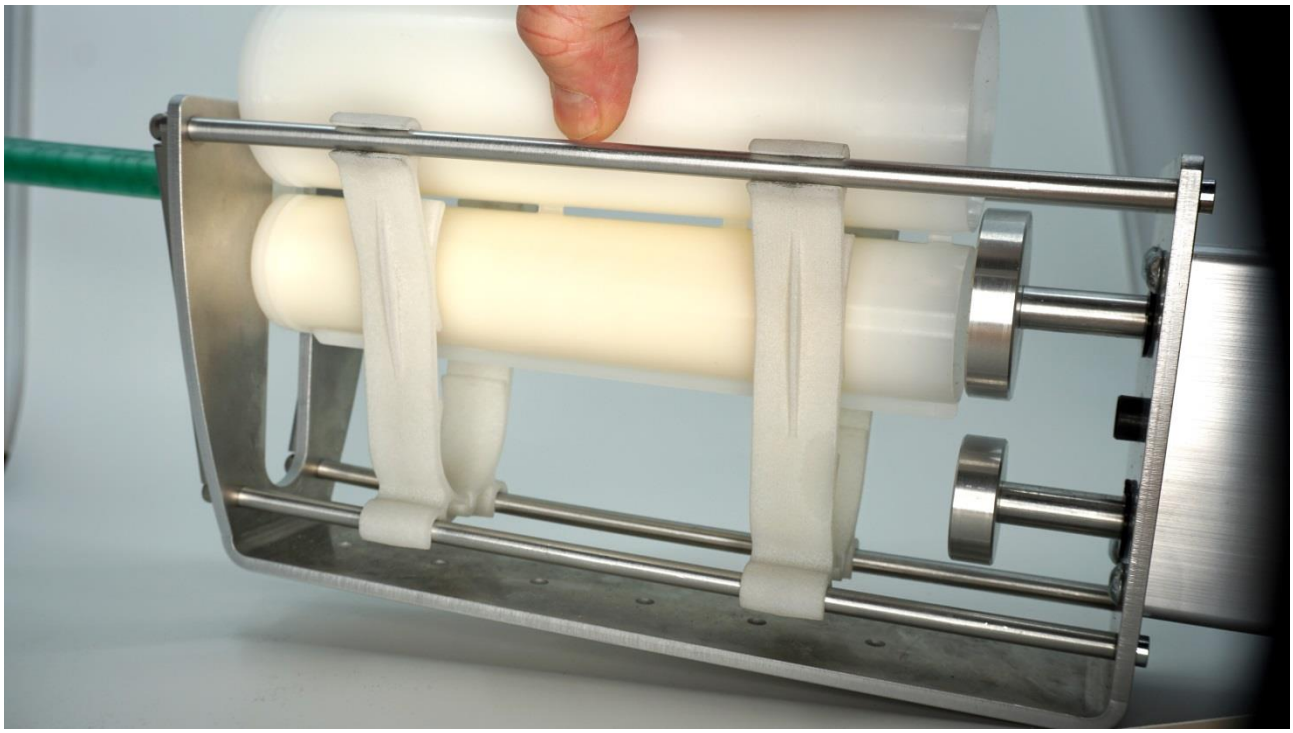
First the static mixer is plugged into the duo cartridge.

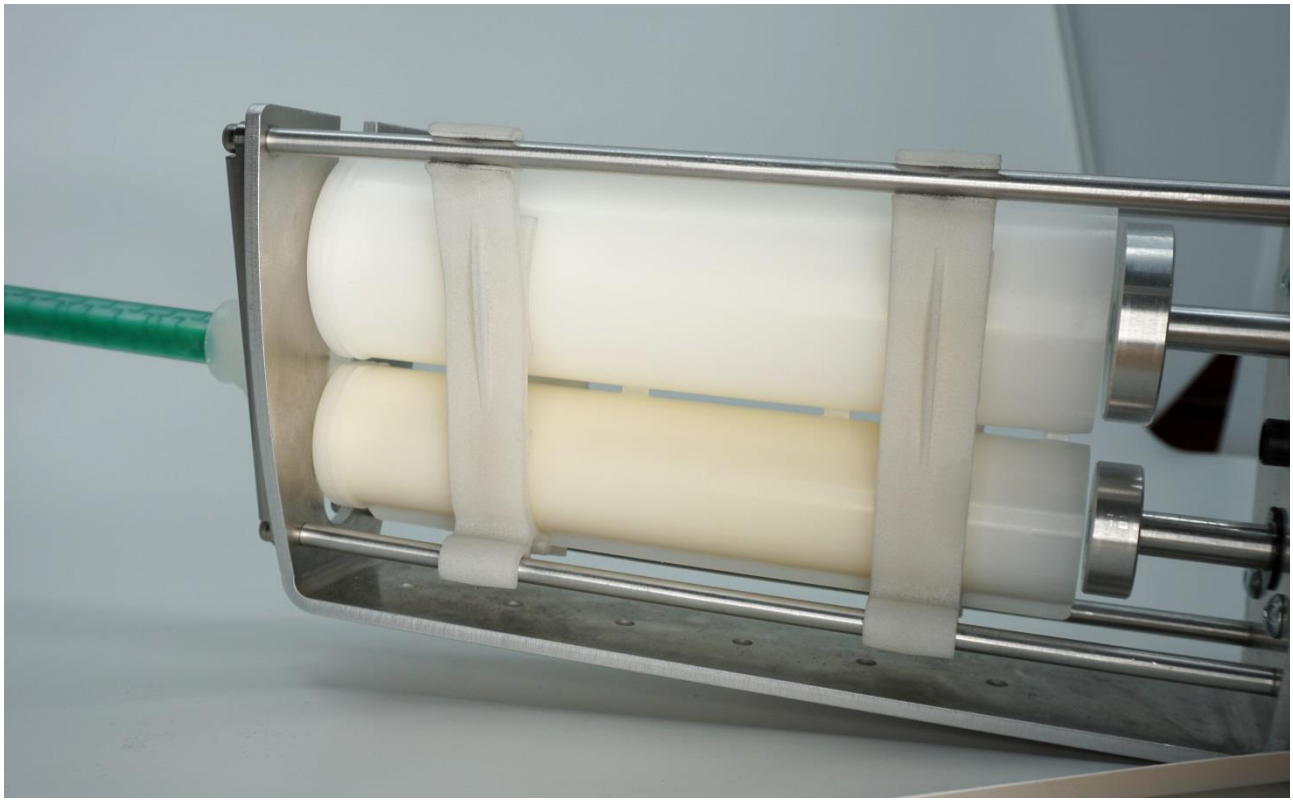
Then the union nut is screwed onto the thread of the static mixer.

When inserting the duo-cartridge into the holder of the electric valve, make sure that the cartridge is inserted into the bracket **according to the pistons diameter**.

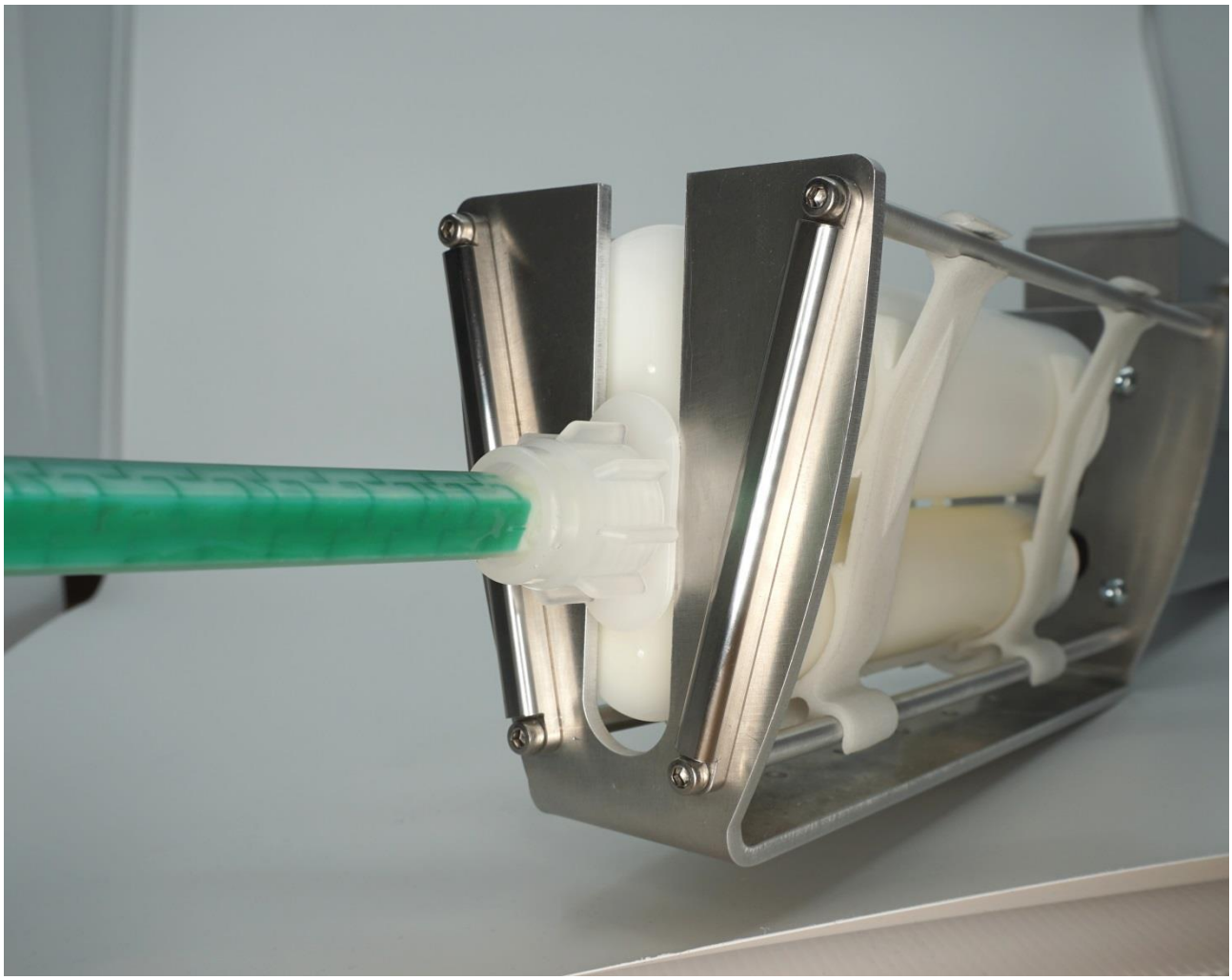


Clip in cartridge

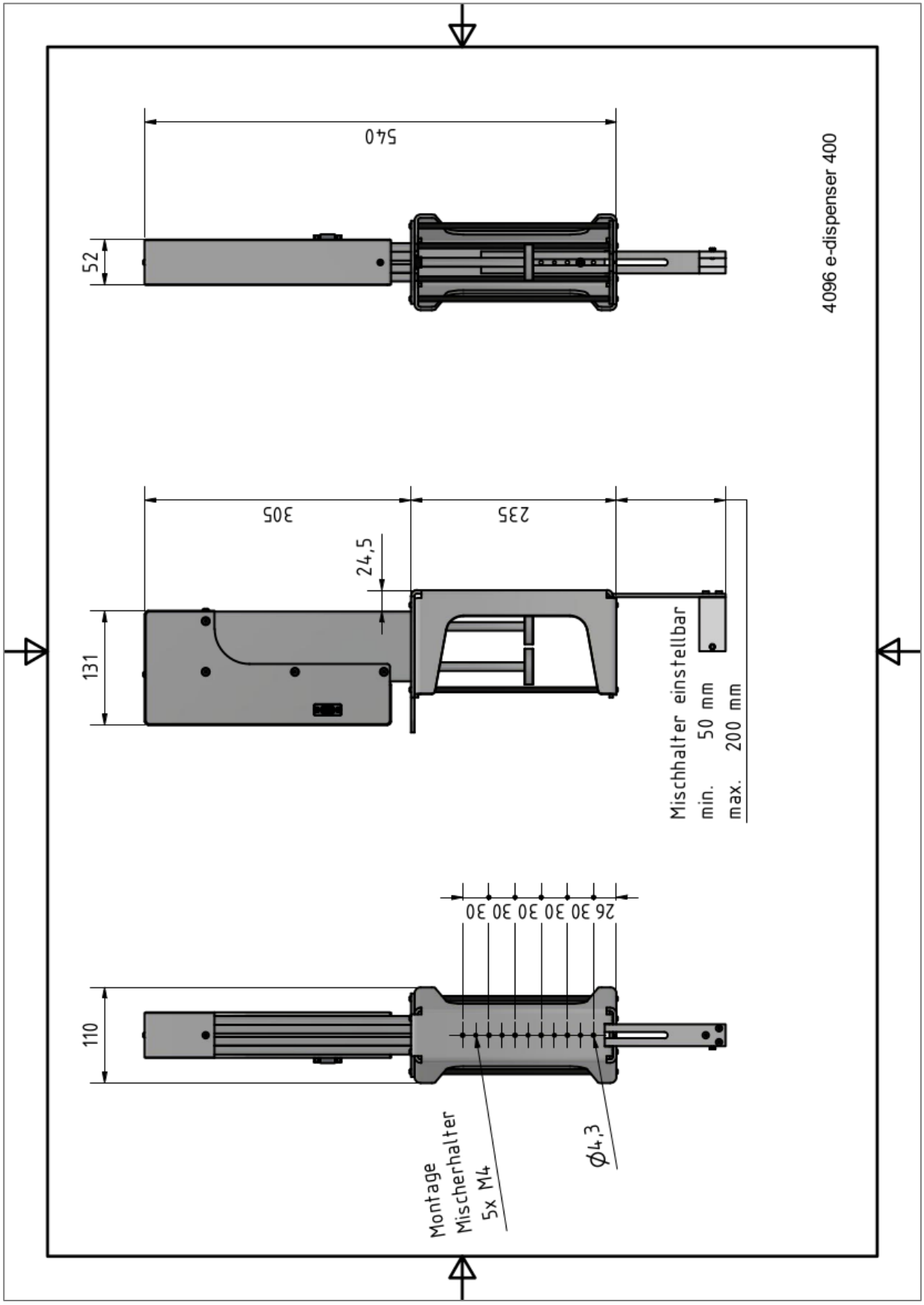




Placement of cartridge after clipping in.



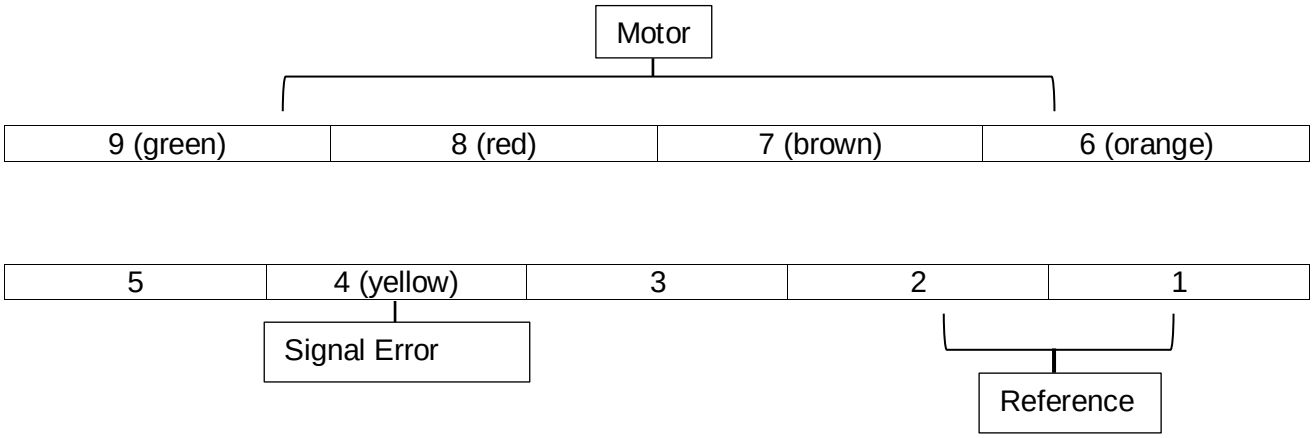
3. Technical drawing



4. Parts list

Object	Amount	Part number	Description
1	1		Spacer bolt M30X30
2	2		Spacer ring D28x20x2
3	1		Connection plug, 9-pin. Sub-D connector
4	1		Cartridge 1-2
5	1		Ball thread 12x4 KUS1204
6	1	4095-0002-22	Ball draft spindle KUS1204X300
7	1		Motor CHP-42GP-775
8	2		Motor role D = 10 Z15
9	2		Tilted ball bearing 7900
10	1		Washer D16 D10
11	1		Previous nut for the KUS festival camp
12	1	4095-0001-01	Sleds
13	2	4095-0013-01	Thrust
14	1	4095-0016-01	Piston_30
15	1	4095-0017-01	Piston_44
16	4	4095-0023-21	Distance rod 6x219
17	1	4095-0055-01	Removal of spindle housing
18	2	4095-0062-74	Cartridge holder 2-1
19	1	4095-1032-01	Cartridge holder V6
20	2	4096-0011-21	Husk small
21	1	4096-0026-01	Flange covering cover
22	1	4096-0035-21	Cover plate
23	1	4096-0036-01	Protective sheet
24	1	4096-0037-01	Protection sheet with plug
25	1	4096-0038-01	Motor slot (2x14 z)
26	2	5460-1001	Slide bearing DI = 10
27	1	5461-0801	Slide bearing with collar
28	2	7009-0015	Micro-switch DB3

5. Electrical connection 9 pol. Sub-D socket (Sensor-Motor)



6. Error analysis

Problem	Pssible cause	Solution
Device cannot be switched on	No 24V-Spannung	Check power supply
Dosing is not executed	Material has harden in static mixer	Replace static mixer
	Material has harden in dosing needle	Replace/ clean dosing needle
	Material has harden in cartridge	Replace cartridge
	Material viscosity too high	Replace static mixer / slow down dosing speed
	Motor is spinning	- Check viscosity - Check static mixer - Check material - Check dosing needle
Dosing program is displayed but not executed	Motor cable disconnected	Connect motor cable
	Motor cable was disconnected during operation – possible damage of motor driver	Send device to axiss GmbH for repair

7. Declaration of conformity

In accordance with the EEC machine directive 2006/42/EG of 17. May 2006, appendix II A
EG-directive of electromagnetic environmental compatibility (EMV 2014/30 EU)

We hereby certify that the following described dosing valve in its conception, construction and form is in accordance with all the relevant essential health and safety requirements of the EC machinery directive 2006/42/EEC as amended and the national laws and regulations adopting this directive.

This declaration is no longer valid if the e-dispenser is modified without our consent.

System/Machine

Product: e-dispenser 400
Art.number: 4096

Producer

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Following harmonized European production standards have been applied:

EN ISO 12100 (Security of machines – General design principles – risk assessment and risk reduction)
DIN 28403: 1986-09 vacuum technology; Quick connectors, Small flange connections
DIN-EN-ISO-16092-1 › Machine tools safety - Presses - Part 1: General safety requirements (ISO 16092-1:2017)
EN 60204-1:2006-06 Security of machines– Electrical equipment of machines part 1

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