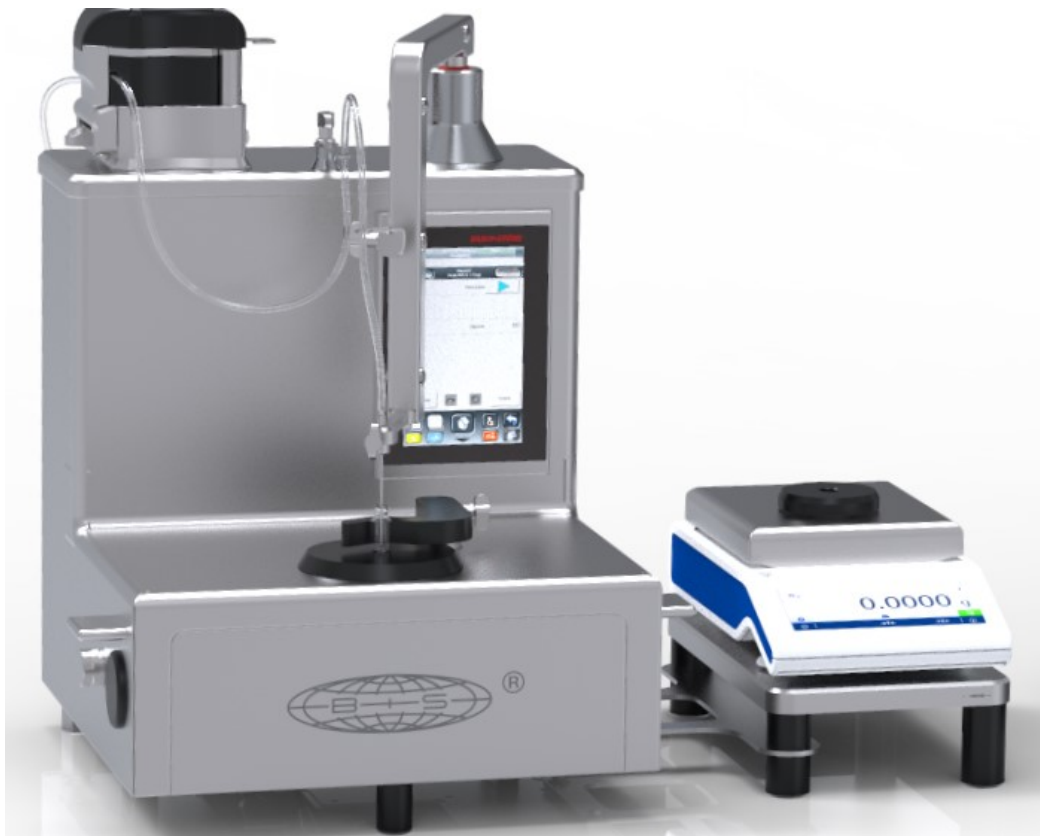


Technical Specification

EDM3611

Dosing machine

EDM3611





Machine type:

EDM3611

Version:
TS-EDM3611-002-02

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1. General

- This specification refers to the standard design of the machine

1.1 Application

- The bench-top machine is designed for the simple and precise filling of containers

2. Machine design

2.1 Standard design

- Machine base made of aluminium
- Machine panels made of stainless steel
- Electric (capacitive) two-hand control

2.2 Container loading

- The containers are placed manually under the dosing position (Centering by means of adjustable prism-shaped part or container holder for instable containers)

2.3 Dosing station

- Basic equipment for dosing liquid products with single-hose peristaltic pump, provision is made for operation with 1 dosing position
- Dosing head made of stainless steel, driven by a servomotor
- Needle movement with bottom-up filling with the needle above level or immersed, with separate drive by servomotor
- The needle holder can be swivelled into 2 positions (basic machine and scales)
- Filling needle made of stainless steel
- Filling hoses made of silicone
- Drip retraction system for particularly critical products with the tendency to drip. The drip retraction system is provided directly by the pump movement
- All setting values can be entered at the operating panel of the machine and memorized separately for each size



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2.4 Scales

- Laboratory balance, make Mettler Toledo, to check the dosing volume, connected to the machine
- Base frame with container centring devices (dosing takes place on the scales)

2.5 Printer

- Colour laser printer, make HP, to provide the batch report, separately standing (to be installed by the customer)

2.6 Electrical installation

- The electrical control unit is integrated into the machine
- The power is supplied via a switch cabinet with main switch. The machine is connected to the switch cabinet via a power plug (separate space requirement 110 – 180 mm). Cable length from the switch cabinet to the machine approx. 5 meters
- Beckhoff PLC for monitoring and control of all machine functions
- USB port on the machine for saving logs and screenshots to a USB stick
- Wire numbering
- The machine is operated from the integrated operating panel (touch panel)
- All displays on operation modes, setting values and operational data appear at the operating panel



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3. Technical data

3.1 Machine data

		EDM3611
Bottles		
Min. container diameter	(mm)	14,25
Max. container diameter	(mm)	68
Min. container height	(mm)	32
Max. container height	(mm)	136
Cartridges ¹		
Min. container diameter	(mm)	8,55
Max. container diameter	(mm)	35
Min. container height	(mm)	32
Max. container height	(mm)	106
Syringes ¹		
Min. container diameter	(mm)	6,85
Max. container diameter	(mm)	35
Min. container height	(mm)	45
Max. container height	(mm)	160
Theoretical set output of the filling station (Ps) according to DIN EN 415-11	(pcs/h)	2000
Approximate value of the practical machine output	(pcs/h)	450 ²
Electrical supply		110 V – 240 V ³
Connected load machine	(kW)	~ 1,2
Noise level ⁴	dB(A)	~ 70
Machine dimensions		
Length	(mm)	~ 735
Width	(mm)	~ 454
Height	(mm)	~ 789
Weight of machine (incl. scales)	(kg)	~ 79
Dimensions of switch cabinet		
Length	(mm)	~ 400
Width	(mm)	~ 210
Height	(mm)	~ 500
Weight of switch cabinet	(kg)	~ 23

¹ extension of the machine for handling syringes and cartridges necessary

² output depending on the operator

³ electrical supply is adjustable in the range of 110 V to 240 V. The electrical commissioning of the machine at B+S is performed with 230/400V, 50Hz

⁴ average value of the machine series, measured according to DIN 45635 Part 1 and part 28 during production conditions

Subject to technical modifications



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4. Additional equipment (extract)

- Preparation of the machine for integration into a SKAN L-flange
- Extension of the machine for handling syringes and cartridges
- Operation mode **ADVANCED**_{FILL}: Start-up without product loss, production without product loss (100% IPC), running empty with minor product loss
- Equipment for vacuum-assisted filling
- Qualification / Documentation

5. Abbreviations

- IPC In-process control