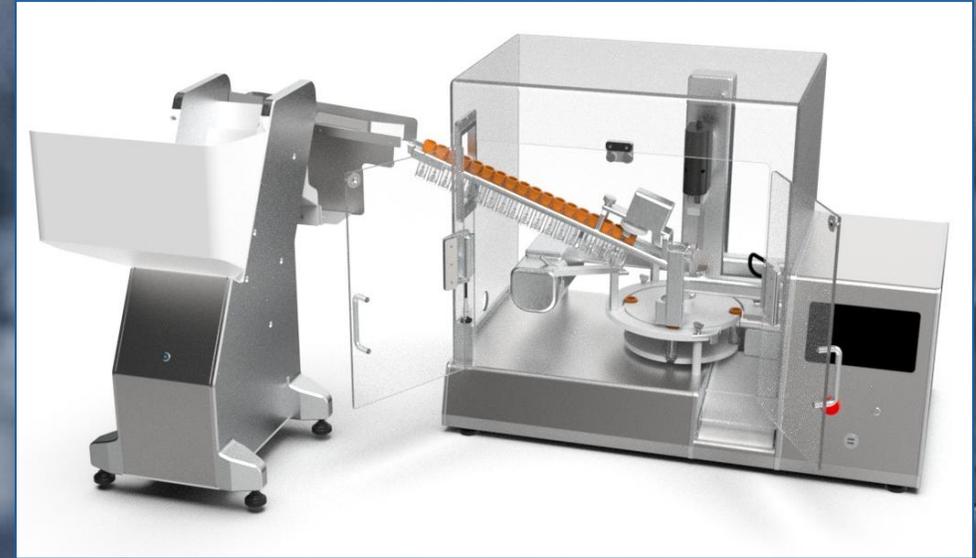


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Special Peristaltic pumps

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Stand-alone high precision peristaltic pump designed for integration into laboratory, IVD and pharmaceutical automation systems.

The pump is equipped with a dual-channel dispensing architecture to increase dosing precision and repeatability. The system includes integrated control electronics, touchscreen interface, and industrial communication protocols for integration with external PLC or SCADA systems.

TECH DETAILS 2026

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This document supersedes and replaces all previous related documents.



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E-LAB FILLER MINI Special Peristaltic Pumps

Description	Specifications
E-Lab Filler Peristaltic Medical ELF-PM-AL-001	Stand alone precision (accuracy better than $\pm 3\%$) peristaltic pump, designed for filling applications.
Mechanical Construction	<ul style="list-style-type: none"> External case cover in stainless steel Pump body in hard anodized aluminium Rollers in AISI 316L stainless steel Functional components in PEEK and technical plastic Stepper motor
Pump Architecture User Interface	<ul style="list-style-type: none"> Single channel configuration Optimized tube compression geometry Suitable for high repeatability applications
User Interface	<ul style="list-style-type: none"> Integrated touch screen HMI
Communication Protocols	<ul style="list-style-type: none"> TCP-IP MODBUS



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E-LAB FILLER MINI Special Peristaltic Pumps

Description	Specifications
E-Lab Filler Peristaltic Medical ELF-PM-AL-002	Stand alone precision (accuracy better than $\pm 1\%$) peristaltic pump, designed for filling applications.
Mechanical Construction	<ul style="list-style-type: none"> ▪ External case cover in stainless steel ▪ Pump body in hard anodized aluminium ▪ Rollers in AISI 316L stainless steel ▪ Functional components in PEEK ▪ Sealed bearings in AISI 440C ▪ Servo Motor
Pump Architecture User Interface	<ul style="list-style-type: none"> ▪ Dual channel configuration ▪ Optimized tube compression geometry ▪ Suitable for high repeatability applications
User Interface	<ul style="list-style-type: none"> ▪ Integrated touch screen HMI
Communication Protocols	<ul style="list-style-type: none"> ▪ TCP-IP ▪ MODBUS



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E-LAB FILLER MINI Special Peristaltic Pumps

Description	Specifications
E-Lab Filler Peristaltic Medical ELF-PM-AL-003	Stand alone precision (accuracy better than $\pm 1\%$) peristaltic pump, designed for filling applications.
Mechanical Construction	<ul style="list-style-type: none"> External case cover in stainless steel Pump body in hard anodized aluminium Rollers in AISI 316L stainless steel Functional components in PEEK Sealed bearings in AISI 440C Siemens Servo Motor
Pump Architecture User Interface	<ul style="list-style-type: none"> Dual channel configuration Optimized tube compression geometry Suitable for high repeatability applications
User Interface	<ul style="list-style-type: none"> Integrated Siemens touch screen HMI
Communication Protocols	<ul style="list-style-type: none"> TCP-IP MODBUS PROFINET



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E-LAB FILLER MINI Special Peristaltic Pumps

Description	Specifications
E-Lab Filler Peristaltic Pharma ELF-PM-AS-001	Stand alone precision (accuracy better than $\pm 1\%$) peristaltic pump, designed for filling applications.
Mechanical Construction	<ul style="list-style-type: none"> ▪ External case cover in stainless steel ▪ Pump body in AISI 316L stainless steel ▪ Rollers in AISI 316L stainless steel ▪ Functional components in PEEK ▪ Ceramic bearings ▪ Servo Motor
Pump Architecture User Interface	<ul style="list-style-type: none"> ▪ Dual channel configuration ▪ Optimized tube compression geometry ▪ Suitable for high repeatability applications
User Interface	<ul style="list-style-type: none"> ▪ Integrated touch screen HMI
Communication Protocols	<ul style="list-style-type: none"> ▪ TCP-IP ▪ MODBUS



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E-LAB FILLER MINI Special Peristaltic Pumps

Description	Specifications
E-Lab Filler Peristaltic Pharma ELF-PM-AS-002	Stand alone precision (accuracy better than $\pm 1\%$) peristaltic pump, designed for filling applications.
Mechanical Construction	<ul style="list-style-type: none"> ▪ External case cover in stainless steel ▪ Pump body in AISI 316L stainless steel ▪ Rollers in AISI 316L stainless steel ▪ Functional components in PEEK ▪ Ceramic bearings ▪ Siemens Servo Motor
Pump Architecture User Interface	<ul style="list-style-type: none"> ▪ Dual channel configuration ▪ Optimized tube compression geometry ▪ Suitable for high repeatability applications ▪ Designed for one-handed operation
User Interface	<ul style="list-style-type: none"> ▪ Integrated Siemens touch screen HMI
Communication Protocols	<ul style="list-style-type: none"> ▪ TCP-IP ▪ MODBUS ▪ PROFINET

TECH DETAILS – PROCESS CONTROL MODULES :

Description	Specifications	
Process Control Modules		
Gravimetric Control System	Automatic calibration software including scale Kern KDP 300-3, enabling automatic calibration procedures and in-line weight verification during filling operations for process monitoring and accuracy control.	Optional



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TECH DETAILS - SOFTWARE ARCHITECTURE:



Description	Specifications	
Base Software		
E-Lab Control Basic	Essential machine control: - Pump operation control - Manual parameter configuration - Guided calibration procedure	Included
Recipe Management Module	Creation and storage of filling recipes. Automatic parameter recall.	Included
User Access Control	Operator login system with configurable access levels.	Included

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TECH DETAILS - SOFTWARE ARCHITECTURE:



Description	Specifications	
Production Structure Modules		
Badge Access Control	Badge-based automatic login (QR code or equivalent identification system).	Optional
Audit Trail Module (Basic)	Parameter change logging. Recipe modification history. Timestamped event tracking.	Optional
Electronic Batch Record (EBR) Module	Automatic batch registration. Operator association. Production parameter recording. PDF and CSV export.	Optional

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TECH DETAILES - SOFTWARE:



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Description	Specifications	
Connectivity & Service		
Remote Service & Monitoring Module	Secure remote access. Live diagnostics. Software update capability. Remote backup.	Optional
Industrial Connectivity Module	SQL data export or import capability for integration with external systems.	Optional
Project Base Development		
Custom Software Development	Regulatory-oriented configurations and validation-oriented implementations developed upon project-based collaboration.	Project-Based

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EngMotion d.o.o.

www.engmotion.com

✉ sales@engmotion.com

☎ +386 (0) 55555045

📍 Kraška Ulica 4

6210 Sežana - SLO