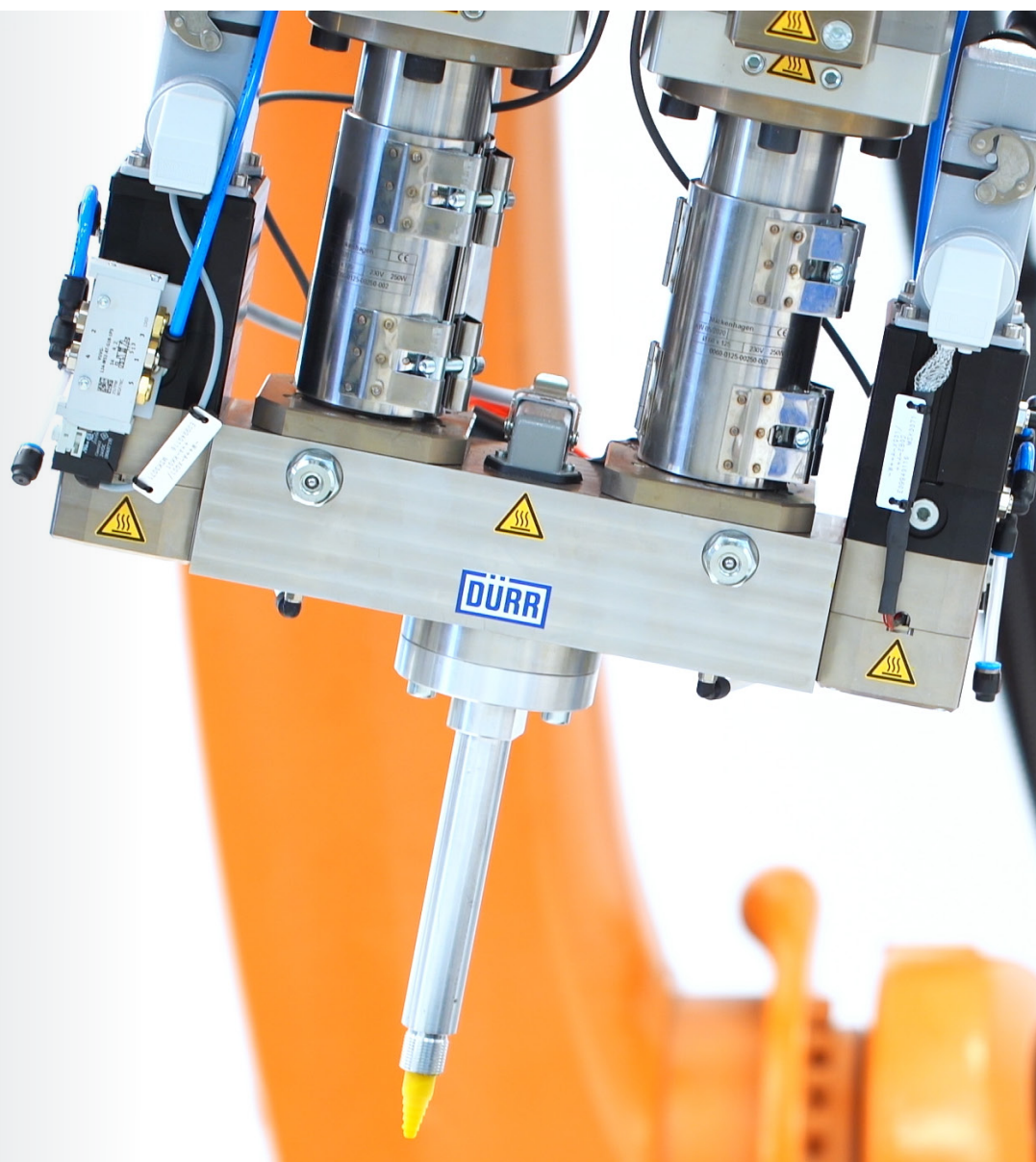


LEADING IN
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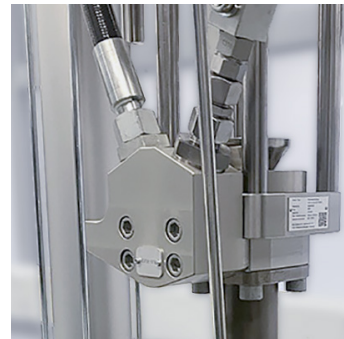
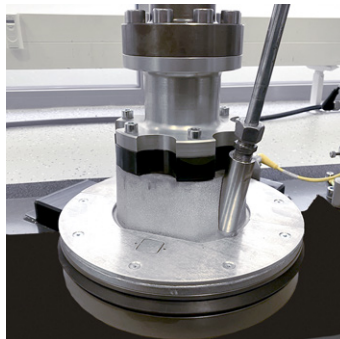
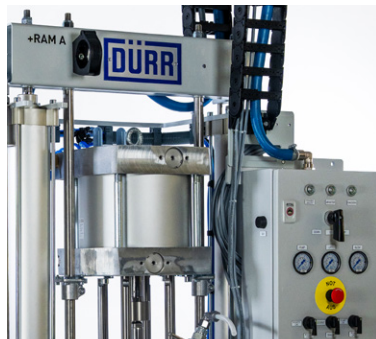
Product catalog 2026

Dispensing equipment
for adhesive application

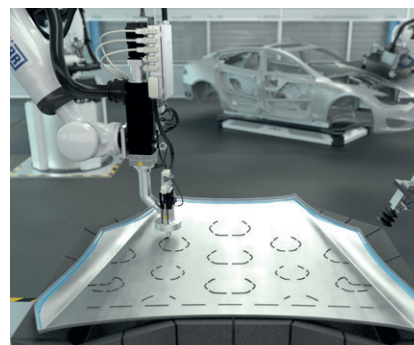
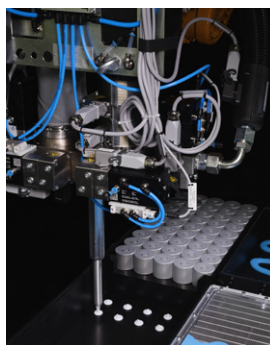
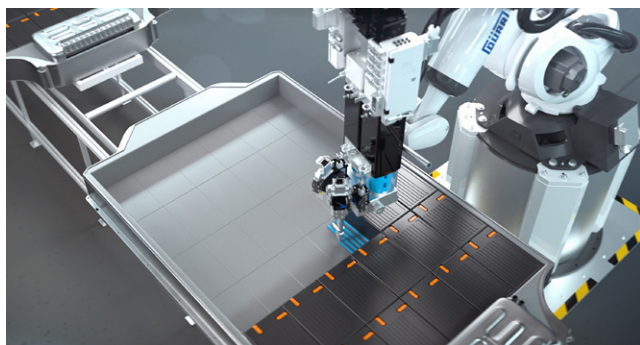


Four product groups endless options

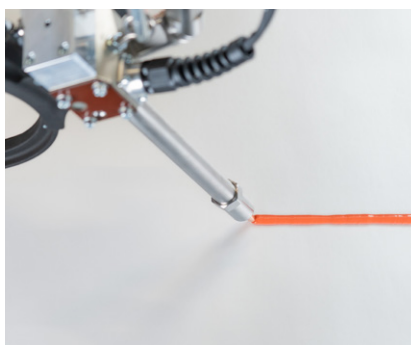
MATERIAL SUPPLY



DOSING UNITS



APPLICATORS



CONTROL UNITS



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WELCOME

We are thrilled to unveil our inaugural product catalog for the dispensing of adhesive and sealing materials. This extensive inventory of products is meticulously curated to meet all your needs for adhesives and sealants.

Whether you prefer fully automated or manual processes, rest assured that we offer a wide range of products tailored to suit every requirement.

Dispensing team



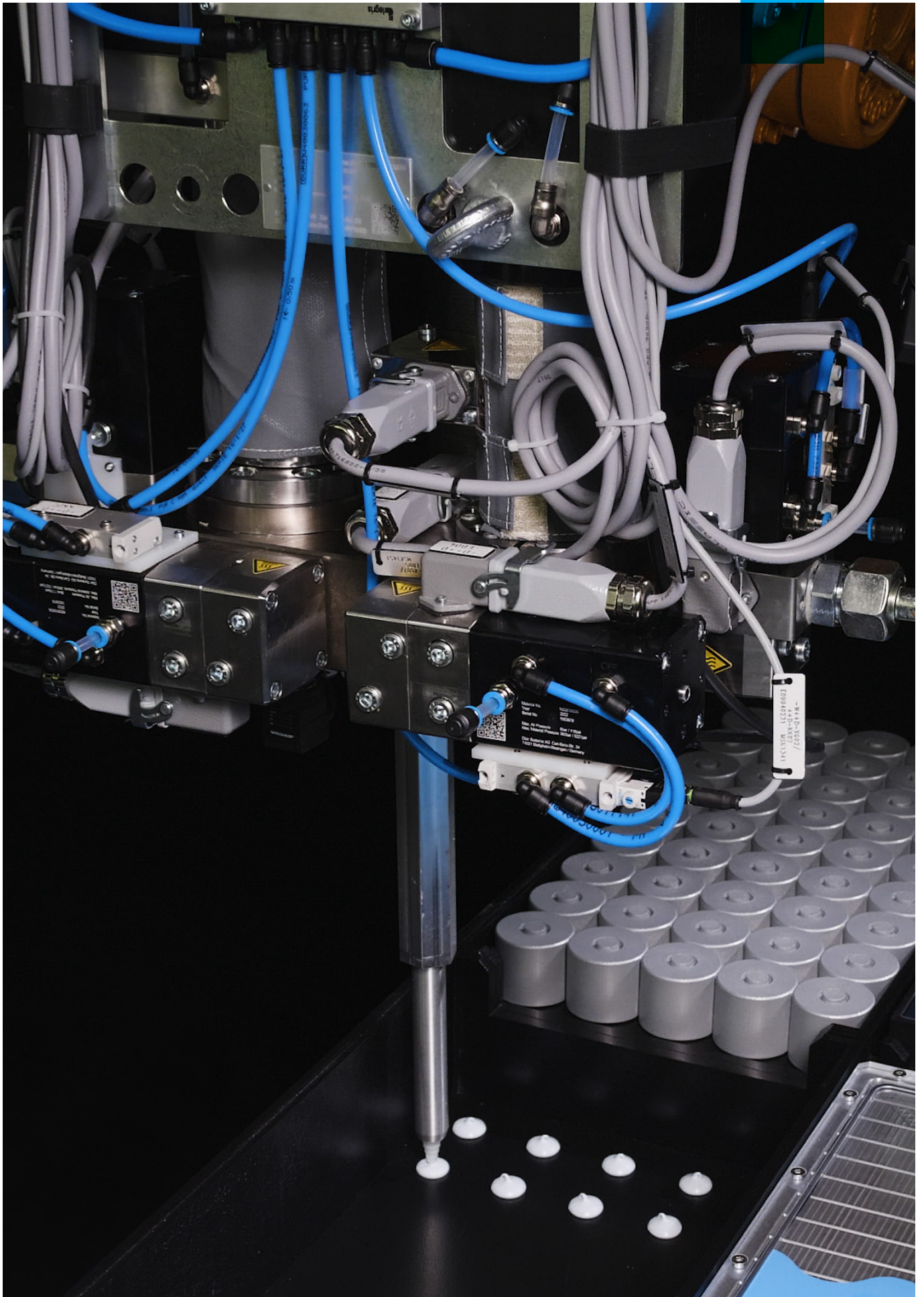
Check online version
of the catalog with latest updates.

Release date: 2026/06/17

01

Dürr at a glance

The Dürr Group is one of the world's leading mechanical and plant engineering firms with particular expertise in the technology fields of automation, digitalization, and energy efficiency. Its products, systems, and services enable highly efficient and sustainable manufacturing processes – mainly in the automotive industry, for producers of furniture and timber houses, as well as in the assembly of medical and electrical products and in battery production. The Dürr Group generated sales of €4.7 billion in 2024 and has approximately 18,400 employees and 130 business locations in 32 countries and it operates in the market with three divisions.



Dürr Group brands



Dürr stands for painting and final assembly systems as well as machine and robot technology for vehicle production.

Dürr supplies cross-industry efficient systems in environmental technology, especially for exhaust air purification, and optimizes production efficiency with digital solutions.



Schenck is the global market leader in the field of balancing technology solutions with extensive expertise in automation and digitalization. Schenck develops international solutions which are unique around the world and supplies a wide range of industries with innovative technologies.

Schenck develops international solutions which are unique around the world and supplies a wide range of industries with innovative technologies.



The HOMAG Group is the world's leading supplier of woodworking solutions. The range includes machines, software and services along

the process chains for the production of furniture, flooring, doors, windows, CLT/GLT and timber house construction.



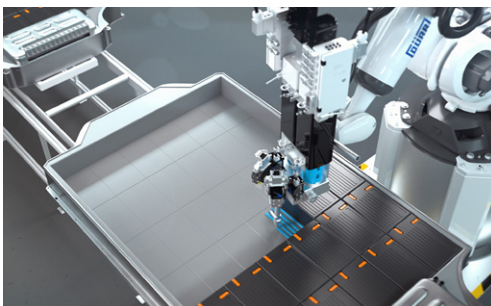
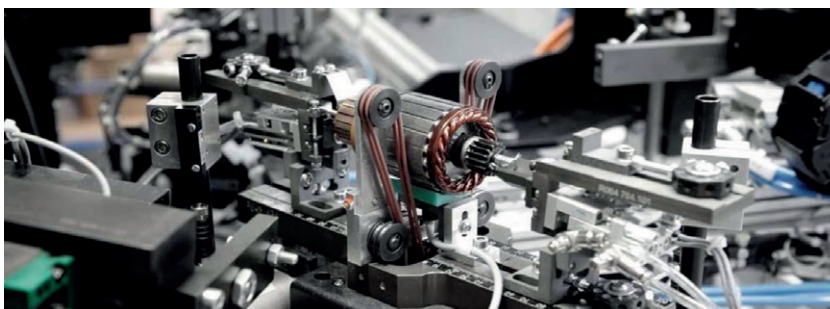
BBS Automation, a leading automation provider, offers solutions for assembly and test, winding, insertion and take-out technology, feeder and palletizing systems. BBS serves the mobility, medtech, consumer goods, new energy and electronics industries.

BBS serves the mobility, medtech, consumer goods, new energy and electronics industries.



Divisions of the Dürr Group

- **Automotive:**
painting technology, final assembly, testing and filling technology
- **Industrial Automation:**
automated assembly and test systems for automotive components, medical devices, and consumer goods as well as balancing technology solutions and coating systems for battery electrodes
- **Woodworking:**
machinery and equipment for the woodworking industry





02

Material supply

Product groups

RAM units	10
Pumps	14
Flow regulators	17



RAM units

High viscosity material supply system

Product families

EcoRAM – high viscosity material supply system

EcoRAM

High viscosity material supply system for automatic operation

The **EcoRAM** material supply is used to pump highly viscous media from 200l drums as well as hobcock containers. For the use of different media, the RAM assembly can be equipped with our **EcoPump VPS 210** shovel plate pump or **EcoPump VP 500** ball valve pump. For optimal material processing and consistent material behavior the RAM unit can be fully heated.

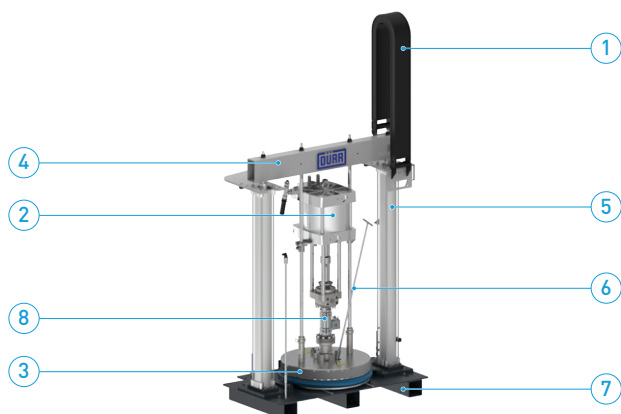


PRODUCT LINE

	EcoRAM 60	EcoRAM 200
Max. dimensions [HxWxL]	695x420x2,013 mm (depends on the config.)	1,120x1,443x2,334 mm (depends on the config.)
Max. extended height	2,437 mm (96")	2,886 mm (114")
Max. air pressure	6.0 bar (87 psi)	6.0 bar (87 psi)
Pump typ	EcoPump VPS210 360	EcoPump VPS210 360 EcoPump VP500 180
Max. fluid pressure	360 bar (5.222 psi)	360 bar (5.222 psi)
Displacement	210 cc/cyc	210 cc/cyc - with EcoPump VPS210 360 500 cc/cyc - with EcoPump VP500 180
Ratio	72:1	72:1 - with EcoPump VPS210 360 30:1 - with EcoPump VP500 180
Flow rate @ rec. cycles	1,7 l/min (0.45 gal/m)	1,7 l/min (0.45 gal/m) - with EcoPump VPS210 360 5 l/min (1.32 gal/m) - with EcoPump VP500 180
Recommended cycles	8 cyc/min	8 cyc/min - with EcoPump VPS210 360 10 cyc/min - with EcoPump VP500 180
Plate material	Aluminium cast and PU	Aluminium cast and NVC
Ambient operating temperature	10-40 °C (50-104 °F)	10-40 °C (50-104 °F)
Diameter barrel	279 mm / 356 mm	279 mm / 356 mm / 571 mm

Product upon request.

TECHNICAL ILLUSTRATION



1 Power chain, 2 Pneumatic motor, 3 Follower plate, 4 Lifter,
5 Pneumatic cylinders, 6 Ventilation bar, 7 Ground plate, 8 Fluid section

CUSTOMER BENEFITS



Supply of highly viscous materials
from 20 l barrels up to 200 l barrels

Two lift cylinders for an exact guidance
and a constant power transmission

Different follower plates for several barrel
types and diameters

Combination of 2 or 4 **EcoRAMs** possible
for a Double- or Quad-RAM system

Heated version available

Different barrel supports available

EcoRAM

High viscosity material supply system for manual operation



PRODUCT LINE

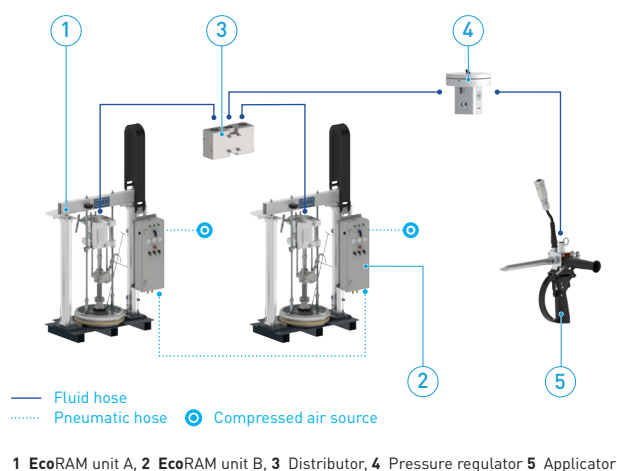
	EcoRAM 60	EcoRAM 200
Part No.	See table below	See table below
Max. dimensions [HxWxL]	695x420x2,013 mm (depends on the config.)	1,120x1,443x2,334 mm
Max. height barrel	2,437 mm (96")	2,886 mm (114")
Compressed air – required pressure	5.5 - 8.0 bar (80 - 116 psi)	5.5 - 8.0 bar (80 - 116 psi)
Pump typ	EcoPump VPS 210 360 SST PE	EcoPump VPS 210 360 SST PE
Max. fluid pressure	360 bar (5.222 psi)	360 bar (5.222 psi)
Displacement	210 cc/cyc	210 cc/cyc
Ratio	72:1	72:1
Flow rate @ rec. Cycles	1.7 l/min (0.45 gal/m)	1.7 l/min (0.45 gal/m)
Recommended cycles	8 cyc/min	8 cyc/min
Plate material	Aluminium cast and PU	Aluminium cast and NVC
Heated version	Optional	Optional
Diameter barrel	279mm / 356mm / w/o plate*	279mm / 356mm / 571 mm / w/o plate*

* plate sold as accessories

ORDER NUMBERS

Part No.	Name	Follower plate	Diameter barrel
N13530055	EcoRAM 60	cold	279 mm
N13530056	EcoRAM 60	heated	279 mm
N13530057	EcoRAM 60	cold	356 mm
N13530058	EcoRAM 60	heated	356 mm
N13530059	EcoRAM 60	cold	none
N13530060	EcoRAM 60	heated	none
N13530061	EcoRAM 200	cold	571 mm
N13530062	EcoRAM 200	heated	571 mm
N13530063	EcoRAM 200	cold	none
N13530064	EcoRAM 200	heated	none
N13070031	EcoRAM 200	heated	285 mm
N13070030	EcoRAM 200	cold	285 mm
N13070025	EcoRAM 200	heated	305 mm
N13070026	EcoRAM 200	cold	305 mm

DOUBLE RAM OPERATION SCHEME - MANUAL



EcoRAM

High viscosity material supply system

ACCESSORIES



	Roller conveyor short	Roller conveyor long	Distributor	Support distributor
Part No.	N17400005	N17400006	N31010055	M19120172
Compatible product	EcoRAM 200	EcoRAM 200	EcoRAM 60, EcoRAM 200	EcoRAM 60, EcoRAM 200
Usage	Ergonomic barrel loading and unloading	Easier barrel loading and unloading	Connecting two material hoses together (for Double RAM function)	For hose and distributor attachment (recommended for Double RAM function)



	Undercut	Hoses	Heating device	Heating cables
Part No.	N25120254	—	F13020027	—
Compatible product	EcoRAM 60	EcoRAM 60, EcoRAM 200	EcoRAM 60, EcoRAM 200	EcoRAM 60, EcoRAM 200
Usage	Accessible with lifting unit	Warm and cold versions Diameters: DN12, DN16, DN20, DN25 Lengths: 2m,3m,4m,5m,6m *	8 different heating zones, max. 11kW	Length: on request (up to 10m *)

* Specific hose and cable configurations, as well as material numbers on request

EXTENDING PLATE KITS FOR EcoRAM 200

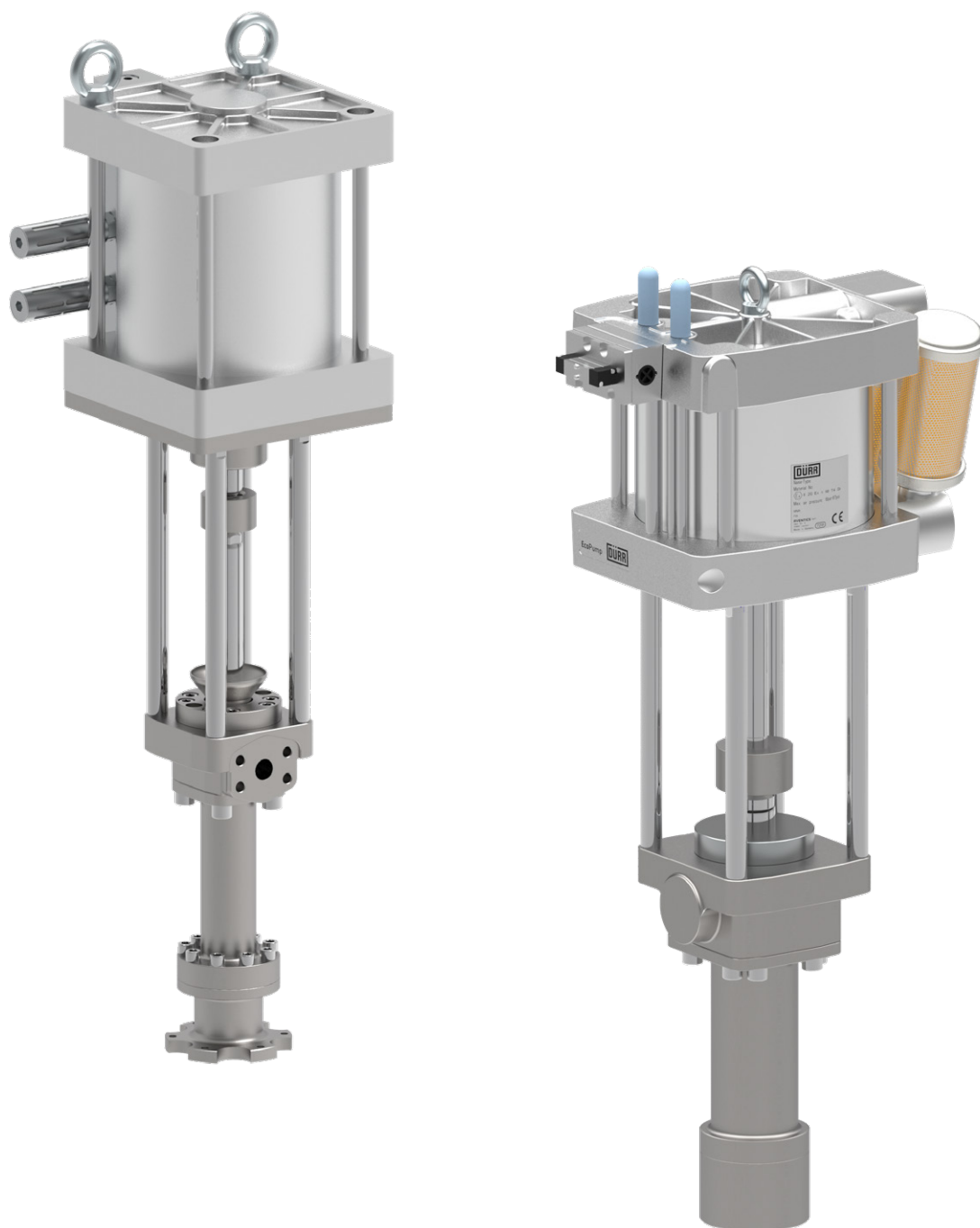


Part No.	Name
N98500146	Diameter 279 mm, cold, 1K
N98500147	Diameter 279 mm, heated, 1K
N98500148	Diameter 356 mm, cold, 1K
N98500149	Diameter 356 mm, heated, 1K
N98500150	Diameter 305 mm, cold, 1K
N98500151	Diameter 305 mm, heated, 1K

DOUBLE RAM OPERATION SCHEME



automatic applications



Pumps

Vertical piston pumps for high- viscous materials

Product families

EcoPump VP – Air operated vertical piston pump

EcoPump VPS – Air operated vertical shovel plate pump

EcoPump VPS

Air operated vertical shovel plate pump

The **EcoPump VPS** is an air operated shovel plate pump for medium to high viscosity materials as adhesives, sealants, oils, wax or abrasive media. Its modular design allows for easy maintenance and with its optimized fluid portion the material will be pumped consistently. The proven design as well as the long term durability make these pumps the perfect choice in the high viscosity application.

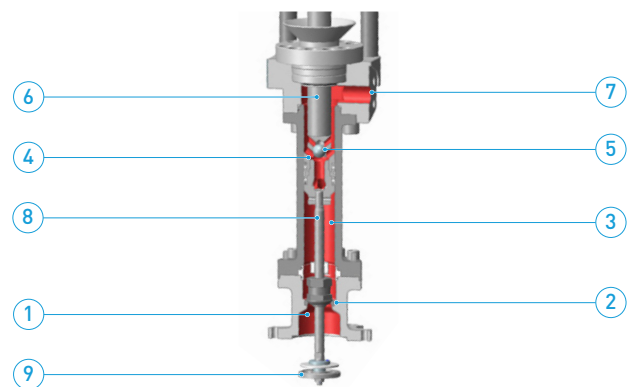


Watch
product
video



SPECIFICATION	
	EcoPump VPS 210 360 SST PE
Part No.	N24270013
Weight	48.5 kg
Connector inlet / outlet	Flanged screw fitting / SAE Flange
Connector air	G3/4" (female)
Displacement	210 cc/cyc
Ratio	72:1
Max. fluid pressure	360 bar (5.222 psi)
Flow rate @ rec. Cycles	1,7 l/min (0.45 gal/m)
Recommended cycles	8 cyc/min
Max. air pressure	5.0 bar (72 psi)
Sealing	PEEK/PE

TECHNICAL ILLUSTRATION



1 Material inlet, 2 Suction ball seat, 3 Material suction chamber, 4 Piston ball seat, 5 Material outlet chamber, 6 Upper piston, 7 Material outlet, 8 Lower piston, 9 Shovel plate

CUSTOMER BENEFITS



- Operation without release agent or oil
- No exposed shaft seal
- Stainless steel fluid sections
- Modular pump design
- Easy to maintain

ACCESSORIES



	Pump stroke sensor	Feed tank
Part No.	N24970062	N24970048
Compatible product	EcoPump VPS 210 360 SST PE	EcoPump VPS 210 360 SST PE
Usage	Electrical sensor for predictive maintenance and energy consumption	For release agent

EcoPump VP

Air operated vertical pump

The **EcoPump VP** is an air operated ball valve pump for low and high viscosity materials such as adhesives, gap filler materials or sealants. With its operating volume of 500 cm³ per double stroke, this pump is especially suited for high volume applications where shovel pumps would lead to high cycle counts. The robust and modular pump design allows for easy maintenance and long term operation even with high filler content materials.



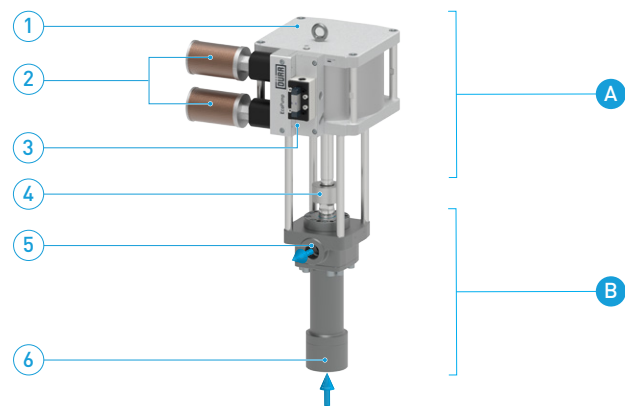
Watch
product
video



PRODUCT LINE		
	EcoPump VP 500 180 SST PU	EcoPump VP 500 270 SST PU
Part No.	N24170027	N24170028
Weight	83.9 kg	103.4 kg
Connector inlet / outlet	G2"/ G1½" (female)	G2"/ G1½" (female)
Connector air	G3/4" (female)	G3/4" (female)
Displacement	500 cc/cyc	500 cc/cyc
Ratio	30:1	45:1
Max. fluid pressure	180 bar (2,611 psi)	270 bar (3,915 psi)
Flow rate @ rec. cycles	5 l/min (1.32 gal/m)	5 l/min (1.32 gal/m)
Recommended cycles*	10 cyc/min	10 cyc/min
Max. air pressure	6.0 bar (87psi)	6.0 bar (87psi)

* Cycles for continuous operation and partial load.

TECHNICAL ILLUSTRATION



A Pneumatic section, **1** Pneumatic motor, **2** Silencers, **3** Contactless changeover mechanism, **4** Quick-disconnection clamp, **B** Fluid section, **5** Material outlet, **6** Material inlet

CUSTOMER BENEFITS



- Operation without release agent or oil
- No exposed shaft seal
- Stainless steel fluid sections
- Modular pump design
- Easy to maintain



Flow regulators

High pressure flow regulators

Product families

EcoFlow HPF – High pressure flow regulators

Pressure regulators

High pressure flow regulators

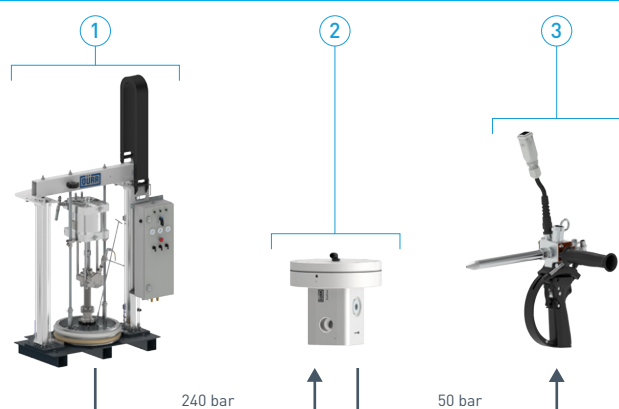
The **EcoFlow HPF** is a high pressure flow regulator designed to maintain downstream pressure in fluid supply systems. By controlling the media pressure to the required working pressure, connected applicators are protected against pressure surge and pulsation from the material supply, while maintaining the required pressure and flow characteristics for the application process. Typically handled materials are high viscous fluids such as mastics, sealers, pastes, adhesives.



PRODUCT LINE

	EcoFlow HPF P 310 5 G3/4" ALU	EcoFlow HPF P 310 5 G3/4" M.HZG ALU	EcoFlow HPF P 310 5 G3/4" SST G1/2"
Part No.	N26070021	N26070047	N26230002
Operation	Pneumatical	Pneumatical / Electrical	Pneumatical
Connector inlet / outlet	G3/4" (female)	G3/4" (female)	G3/4" (female)
Connector air	Push-in 6 mm	Push-in 6 mm	Push-in 6 mm
Max. fluid pressure	310 bar (4,495 psi)	350 bar (4,495 psi)	350 bar (4,495 psi)
Control range of flow rate	20-310 bar (290-4,495 psi)	20-310 bar (290-4,495 psi)	20-310 bar (290-4,495 psi)
Max. flow rate	5.0 l/min (1.32 gal/min)	5.0 l/min (1.32 gal/min)	5.0 l/min (1.32 gal/min)
Heating cartridge	—	125 W	—
Electrical connector	—	4-pin Harting plug	—
Material housing	Aluminium	Aluminium	Stainless steel
Parts contacted by media	Aluminium	Aluminium	Stainless steel
Field of use	Sealing, gluing	Sealing, gluing	Sealing, gluing

TECHNICAL ILLUSTRATION



1 EcoRAM unit, 2 Pressure flow regulator, 3 Manual sealing gun

CUSTOMER BENEFITS



- Large regulation range at high flow rate
- Pneumatic or manual variant available
- Sensitive precision control
- Excellent dynamics during pressure changes
- 100% tight sealing function
- Compact dimensions
- High performance diaphragm
- Easy to maintain
- Tested according to Dürr quality standards

03

Control units

Product groups

Pump- and System control	21
Dosing control / Net control	24



Pump- and System control

High viscosity Pump- and system control

Product families

EcoHVMP4 – high viscosity pump- and system control

EcoHVMP4

High viscosity Pump- and system control

The **EcoHVMP4** system and pump control is the central control unit through which all components of an automated application system are controlled. The dosing and application process is defined, parameterized and analyzed via the **EcoHVMP4** system control. For this purpose, the control offers a wide variety of software-based options for process evaluation. This all-in-one control solution allows extensive possibilities for process implementation with easy operation at the same time.

In addition to the process control, the **EcoHVMP4** also houses the pneumatic supply and a heating controller for the connection of up to two **EcoRAM 60 / 200** material supplies. Up to four material supplies can be implemented using an extension cabinet



EcoHVMP4 main control



EcoHVMP4 pump extension

CUSTOMER BENEFITS



Central pump- and system control for the [dosing and dispensing technology used](#)

All-in-one system solution that's easy to [work with](#)

Colored high resolution 18" touch screen

Expandable by an expansion cabinet for the use of up to four material supplies

Extensive system configuration and [visualization](#)

Process evaluation and problem solving through a wide range of [visualization and analysis options](#)

Including line recorder and predictive maintenance functions

PRODUCT LINE

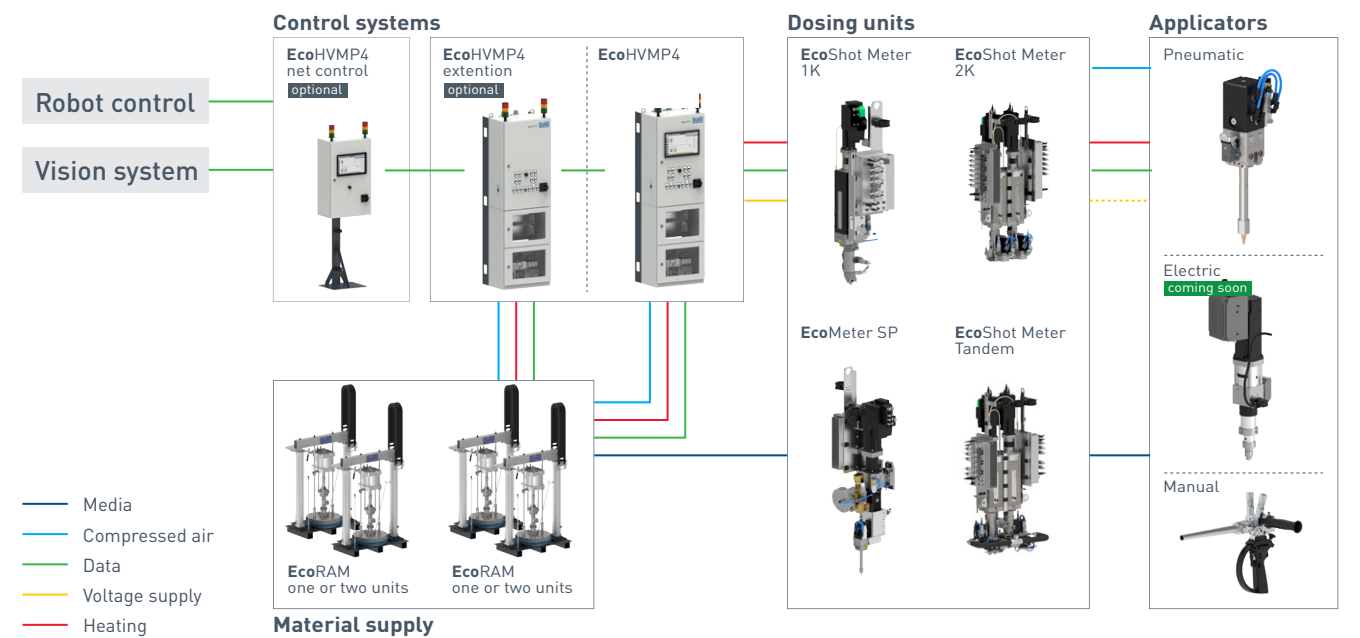
	EcoHVMP4 Pump- and system control	EcoHVMP4 Extension cabinet
Part No.	Depending on configuration	Depending on configuration
No. of material supplies	up to two EcoRAM 60 / 200	up to two EcoRAM 60 / 200
No. of dosing units	2x 1K dosing unit / 1x 2K dosing unit	No dosing control
Air pressure (dynamic)	5-6 bar (72-87 psi)	5-6 bar (72-87 psi)
Air supply connector	G3/4"	G3/4"
Supply Voltage	3 x 400 V AC (TN-S)	3 x 400 V AC (TN-S)
Effective power	21 kVA (depending on configuration)	21 kVA (depending on configuration)
Protection class	IP54	IP54
Bus connection	ProfiNet / EthernetIP	ProfiNet / EthernetIP
Dimensions	350 x 600 x 2200 mm (height with signal light)	350 x 600 x 2200 mm (height with signal light)
Weight	150 kg (depending on configuration)	150 kg (depending on configuration)

The specifications mentioned depend on the given material and process and may differ in the respective use and application.

EcoHVMP4

High viscosity Pump- and system control

TECHNICAL ILLUSTRATION





Dosing control

High viscosity dosing- and application control

Product families

EcoHVMP4 – high viscosity dosing- and dispensing control

EcoHVMP4 Net control

High viscosity dosing- and dispensing control

The **EcoHVMP4** Net control is the expansion control system for the independent use of another dosing and application process. The control unit can be used in conjunction with an existing Dürr material supply and pump control system, or as a stand-alone control for the control of a Dürr dosing unit and applicator together with an external material supply.

The network control system has its own heating control system and process visualization. As with the **EcoHVMP4** pump and control system, the process can be fully configured, parameterized and analyzed via the **EcoHVMP4** net control.



CUSTOMER BENEFITS



Can be used as stand alone control solution or with the **EcoHVMP4** pump- and system control

Easy to implement expansion solution for an additional application process

Colored high resolution 18" touch screen

Extensive system configuration and visualization

Process evaluation and problem solving through a wide range of visualization and analysis options

Including line recorder and predictive maintenance functions

SPECIFICATION

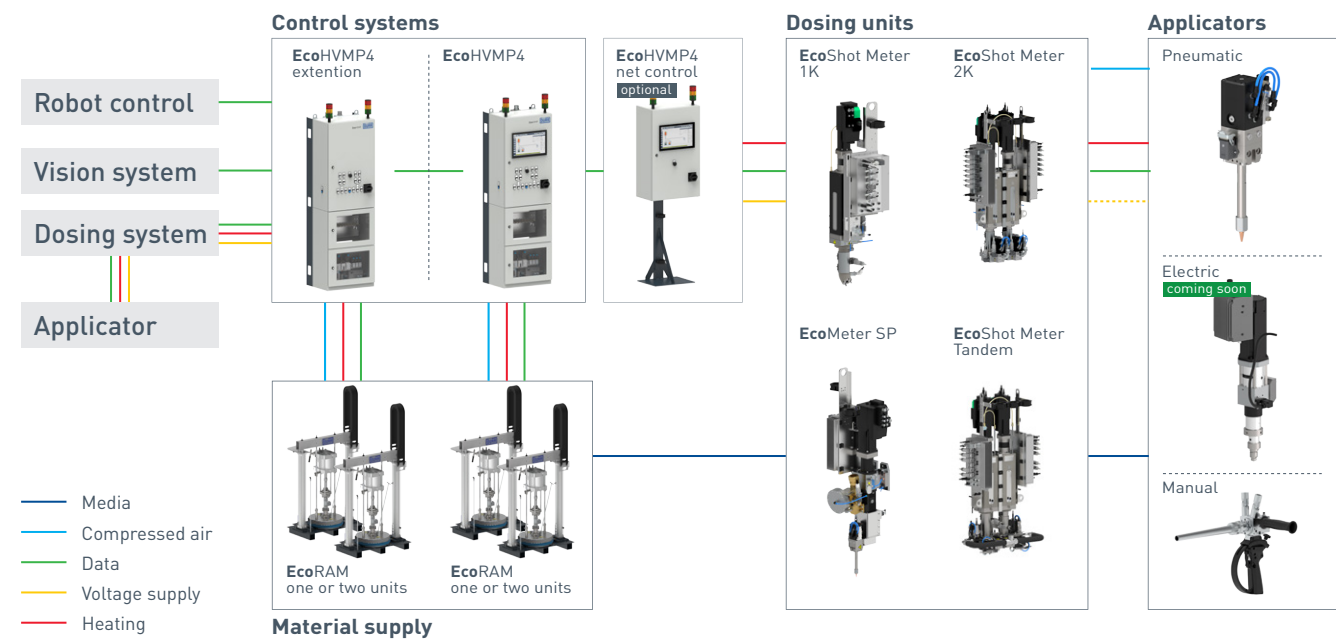
Part No.	Depending on configuration
No. of dosing units	1 (1x 1K, or 1x 2K) independend dosing unit and applicator (e.g. on second robot)
Air pressure (dynamic)	6-8 bar (87-116 psi)
Supply Voltage	3 x 400 V AC (TN-S)
Effective power	21 kVA (depending on configuration)
Protection class	IP54
Bus connection	ProfiNet / EthernetIP
Dimensions	350 x 600 x 2200 mm (height with signal light)
Weight	90 kg (depending on configuration)

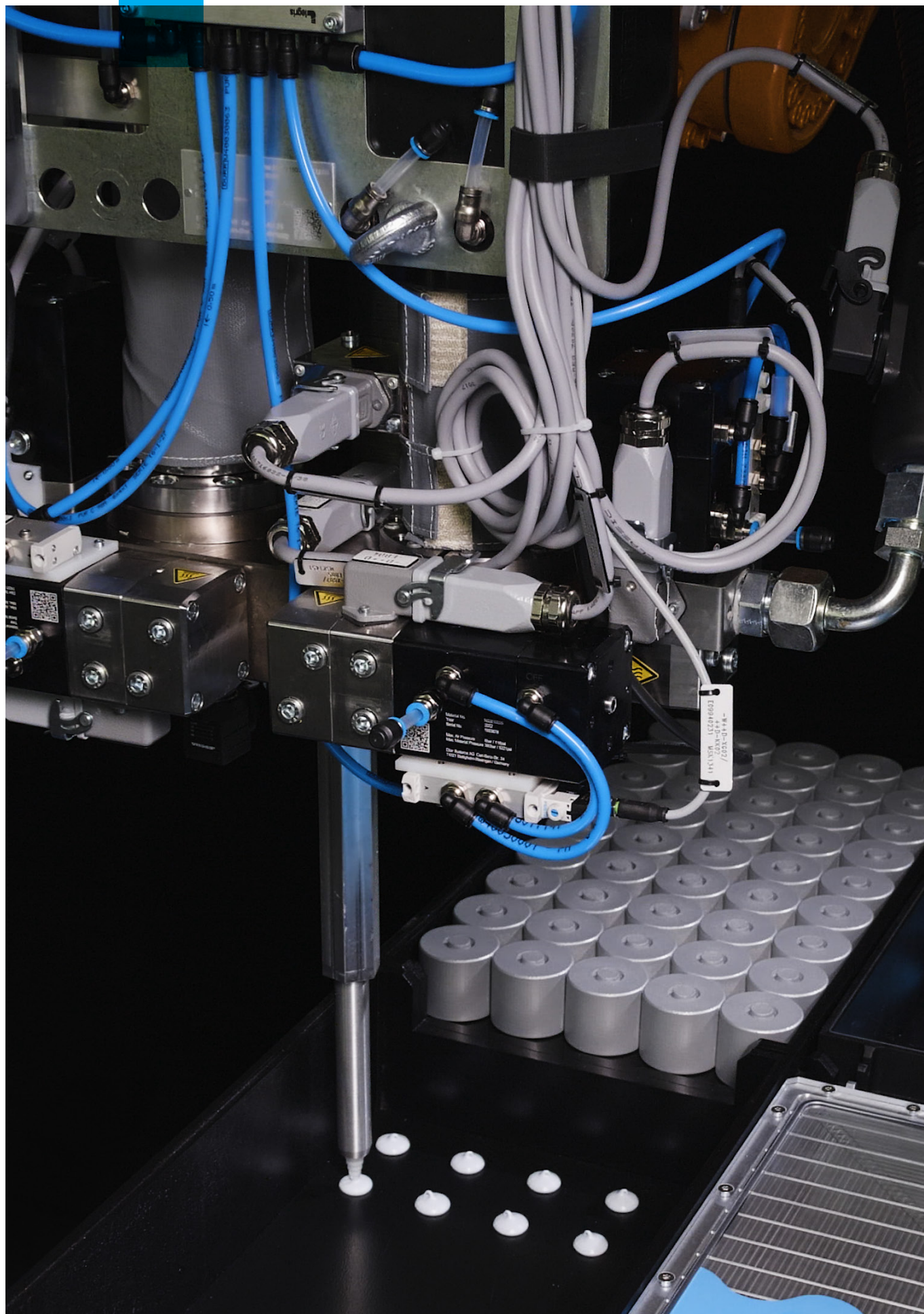
The specification data mentioned depends on the material used and process and may differ in the respective use and application.

EcoHVMP4 Net control

High viscosity dosing- and dispensing control

TECHNICAL ILLUSTRATION



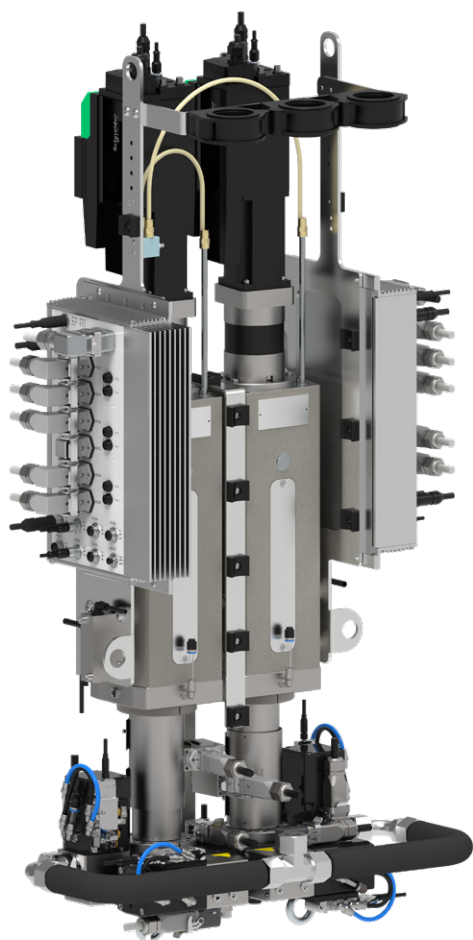


04

Dosing units

Product groups

EcoShot Meter	29
EcoMeter SP 1K	36



EcoShot Meter

Product families

EcoShot Meter – piston dosing units

EcoShot Meter 1K

Piston dosing unit for 1K materials

Our **EcoShot Meter2** 1K piston dosing technology is suitable for the precise metering of highly viscous media. A standardized and durable design enables a wide range of applications, from the exact dispensing of structural adhesives to the metering of highly filled thermal conductive materials. A modular design allows the mounting to be directly flanged or connected by hose to the applicator. A pedestal stand or robot mounted application is possible.

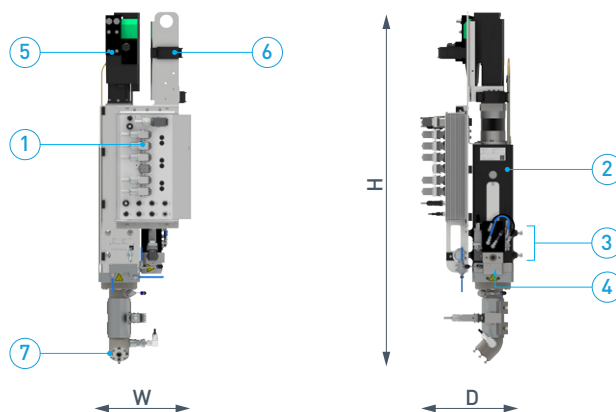


CUSTOMER BENEFITS



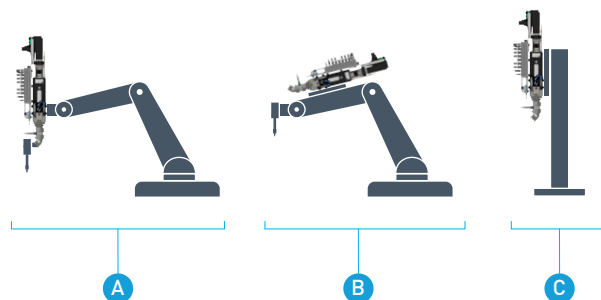
- Durable design made of aluminium or stainless steel
- Wide range of possible materials
- Stationary or robot mounted
- Max. material pressure 250 bar
- Easy access and maintenance

TECHNICAL ILLUSTRATION



- 1 EcoMHD Heating device, 2 Metering unit, 3 Mounting flange, 4 Inlet valve, 5 Servo drive, 6 Hose guide, 7 Material outlet

MOUNTING OPTIONS



- A Mounted on robot – 6th axis, B Mounted on robot – 3rd axis, C Mounted on pedestal

DIMENSIONS

Order no.	Height [H]	Width [W]	Depth [D]
N10330001	995 mm	303 mm	324 mm
N10330002	990 mm	303 mm	324 mm
N10330003	1108 mm	303 mm	324 mm
N10330004	1115 mm	303 mm	324 mm
N10330005	1078 mm	346 mm	335 mm
N10330006	1078 mm	348 mm	323 mm
N10330009	1278 mm	354 mm	315 mm
N10330010	1295 mm	354 mm	315 mm
N10330011	1295 mm	383 mm	318 mm
N10330012	1295 mm	383 mm	318 mm
N10330015	1396 mm	384 mm	336 mm
N10330016	1406 mm	384 mm	336 mm
N10330017	1406 mm	384 mm	336 mm
N10330040	1078 mm	346 mm	323 mm
N10330042	1394 mm	427 mm	372 mm
N10330043	1380 mm	427 mm	372 mm
N10330044	1095 mm	505 mm	330 mm
N10330045	1240 mm	595 mm	378 mm

EcoShot Meter 1K

Piston dosing unit for 1K materials

SPECIFICATION

Weight	40 - 140 kg (depending on configuration)
Mounting hole pattern	4 x M10
Electrical supply	3 x 400V / N+PE, 50 - 60 HZ, Harting HAN16
Pneumatic connection	Plug-in D8, 5 bar (72 psi) min., 8 bar (116 psi) max.
Mechanical connection	Flange plate or fast exchange tool
Application volume	150 / 300 / 600 cm ³ (depending on product configuration)
Connection material inlet	G 3/4"
Connection material outlet	G1/2" (EcoShot Meter 150) G3/4" (EcoShot Meter 300 / 600)
Volume flow	0.1 - 75 cc/s depending on product configuration
Material pressure max.	250 bar (3,626 psi)
Material temperature max.	80 °C (176 °F)

The specification data mentioned depend on the given material and process and may differ in the respective use and application.

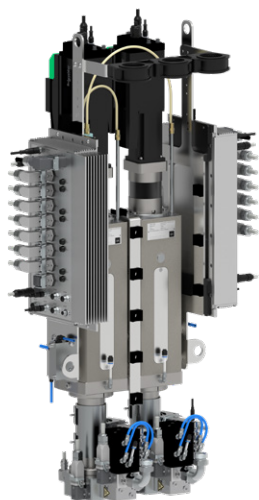
ORDER NUMBERS

Description	Number	Max. Volume / Stroke	Volume Flow	Weight	LIFO / FIFO	Applicator Connection	Material
EcoShot Meter2 25 FDAS	N10330001	25 cm ³	0.1 – 25 cc/s	38 kg	FIFO	Direct	Aluminium
EcoShot Meter2 25 FHAS	N10330002	25 cm ³	0.1 – 22 cc/s	38 kg	FIFO	Hose	Aluminium
EcoShot Meter2 150 FDAS	N10330003	150 cm ³	0.1 – 25 cc/s	39 kg	FIFO	Direct	Aluminium
EcoShot Meter2 150 FHAS	N10330004	150 cm ³	0.1 – 22 cc/s	39 kg	FIFO	Hose	Aluminium
EcoShot Meter2 150 LDSS	N10330005	150 cm ³	0.1 – 22 cc/s	51 kg	LIFO	Direct	Stainless Steel
EcoShot Meter2 150 LHSS	N10330006	150 cm ³	0.1 – 22 cc/s	47 kg	LIFO	Hose	Stainless Steel
EcoShot Meter2 150 LHAS	N10330040	150 cm ³	0.1 – 22 cc/s	80 kg	LIFO	Hose	Aluminium
EcoShot Meter2 300 FDAS	N10330009	300 cm ³	1 – 60 cc/s	80 kg	FIFO	Direct	Aluminium
EcoShot Meter2 300 FHAS	N10330010	300 cm ³	1 – 60 cc/s	83 kg	FIFO	Hose	Aluminium
EcoShot Meter2 300 LDSS	N10330011	300 cm ³	1 – 60 cc/s	83 kg	LIFO	Direct	Stainless Steel
EcoShot Meter2 300 LHSS	N10330012	300 cm ³	1 – 60 cc/s	135 kg	LIFO	Hose	Stainless Steel
EcoShot Meter2 600 LHAS	N10330017	600 cm ³	2 – 75 cc/s	135 kg	LIFO	Hose	Aluminium
EcoShot Meter2 600 LDSS	N10330015	600 cm ³	2 – 75 cc/s	129 kg	LIFO	Direct	Stainless Steel
EcoShot Meter2 600 LHSS	N10330016	600 cm ³	2 – 75 cc/s	42 kg	LIFO	Hose	Stainless Steel
EcoShot Meter2 600 FHAS	N10330042	600 cm ³	2 – 75 cc/s	132 kg	FIFO	Hose	Stainless Steel
EcoShot Meter2 600 FDAS	N10330043	600 cm ³	2 – 75 cc/s	133 kg	FIFO	Direct	Stainless Steel
Variants for hot melt application							
EcoShot Meter2 150 LDAS HT	N10330044	150 cm ³	0.1 – 25 cc/s	47 kg	LIFO	Direct	Aluminium
EcoShot Meter2 150 T LDHAS HT	N10330045	150 cm ³	0.1 – 25 cc/s	116 kg	LIFO	Direct	Aluminium

EcoShot Meter 2K

Piston dosing unit for 2K materials

Our **EcoShot Meter2** 2K piston dosing technology is suitable for precise metering of highly viscous media. A standardized and durable design enables a wide range of applications, from the exact dispensing of structural adhesives to the metering of highly filled thermal conductive materials. A modular design allows the mounting to be directly flanged or connected by hose to the applicator. A pedestal stand or robot mounted application is possible.



CUSTOMER BENEFITS

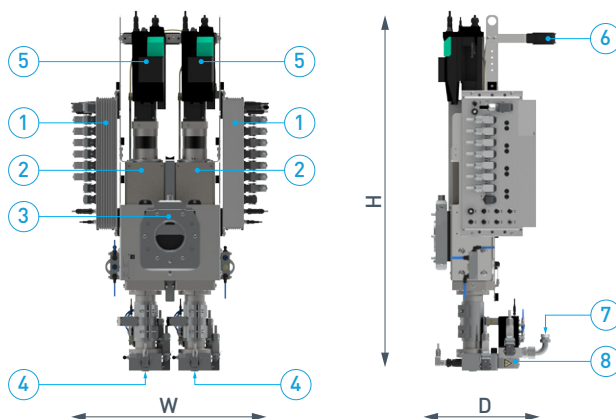


- Durable and light design made of [aluminium or stainless steel](#)
- Wide range of possible materials
- Stationary or robot mounted
- Max. material pressure 250bar
- Easy access and maintenance

DIMENSIONS

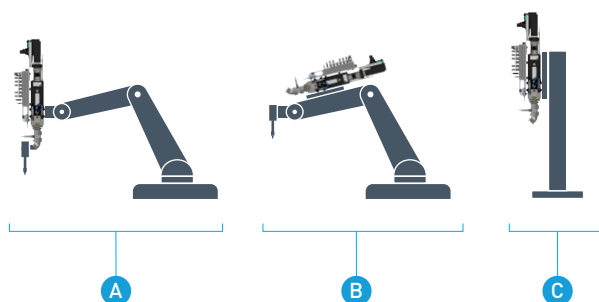
Number	Height (H)	Width (W)	Deep (D)
N10330018	1173 mm	614 mm	371 mm
N10330019	1162 mm	614 mm	371 mm
N10330020	1185 mm	614 mm	382 mm
N10330021	1185 mm	614 mm	382 mm
N10330022	1185 mm	614 mm	382 mm
N10330023	1128 mm	614 mm	382 mm
N10330024	1371 mm	677 mm	321 mm
N10330025	1305 mm	677 mm	321 mm
N10330026	1371 mm	677 mm	321 mm
N10330027	1305 mm	677 mm	321 mm
N10330028	1406 mm	773 mm	384 mm
N10330029	1406 mm	773 mm	384 mm
N10330030	1406 mm	773 mm	384 mm
N10330031	1406 mm	773 mm	384 mm
N10330032	1371 mm	669 mm	320 mm
N10330033	1305 mm	669 mm	320 mm
N10330034	1371 mm	669 mm	320 mm
N10330035	1305 mm	669 mm	320 mm
N10330036	1432 mm	714 mm	384 mm
N10330037	1432 mm	714 mm	384 mm
N10330038	1406 mm	688 mm	420 mm
N10330039	1406 mm	688 mm	420 mm

TECHNICAL ILLUSTRATION



- 1 EcoMHD Heating device, 2 Metering unit, 3 Mounting flange, 4 Material outlet, 5 Servo drive, 6 Hose guide, 7 Material inlet, 8 Inlet valves

MOUNTING OPTIONS



- A Mounted on robot – 6th axis, B Mounted on robot – 3rd axis, C Mounted on pedestal

EcoShot Meter 2K

Piston dosing unit for 2K materials

SPECIFICATION

Weight	90 - 280 kg (depending on configuration)
Mounting hole pattern	4 x M10
Electrical supply	3 x 400 V / N+PE, 50 - 60 HZ, Harting HAN16
Pneumatic connection	Plug-in D8, 5 bar (72 psi) min., 8 bar (116 psi) max.
Mechanical connection	Flange plate or fast exchange tool
Application volume	Depending on product configuration
Connection material inlet	G 3/4"
Connection material outlet	G1" Material output into static mixer with shroud (Direct variants) 2 x G1/2" (EcoShot Meter2 150 2K - Hose variants) 2 x G3/4" (EcoShot Meter2 300 2K & 600 2K - Hose variants)
Volume flow	0.2 - 110 cc/s depending on product configuration
Material pressure max.	250 bar (3,626 psi)
Material temperature max.	80 °C (176 °F)

The specification data mentioned depend on the given material and process and may differ in the respective use and application.

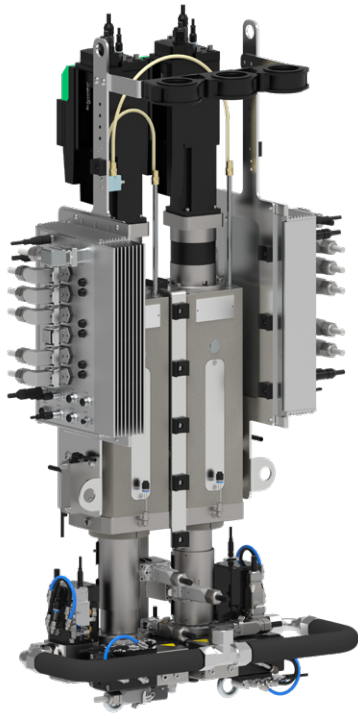
ORDER NUMBERS

Number	Description	Max. volume / Stroke	Volume flow	Weight	LIFO / FIFO	Connection	Material
N10330018	EcoShot Meter2 150 2K FDAS	300 cm ³	0,2 – 45 cc/s	98 kg	FIFO	Direct	Aluminium
N10330019	EcoShot Meter2 150 2K FHAS	300 cm ³	0,2 – 45 cc/s	83 kg	FIFO	Hose	Aluminium
N10330020	EcoShot Meter2 150 2K LDAS	300 cm ³	0,2 – 40 cc/s	98 kg	LIFO	Direct	Aluminium
N10330021	EcoShot Meter2 150 2K LHAS	300 cm ³	0,2 – 40 cc/s	90 kg	LIFO	Hose	Aluminium
N10330022	EcoShot Meter2 150 2K LDSS	300 cm ³	0,2 – 40 cc/s	112 kg	LIFO	Direct	Stainless Steel
N10330023	EcoShot Meter2 150 2K LHSS	300 cm ³	0,2 – 40 cc/s	98 kg	LIFO	Hose	Stainless Steel
N10330024	EcoShot Meter2 300 2K LDAS	600 cm ³	2 – 100 cc/s	162 kg	LIFO	Direct	Aluminium
N10330025	EcoShot Meter2 300 2K LHAS	600 cm ³	2 – 100 cc/s	156 kg	LIFO	Hose	Aluminium
N10330026	EcoShot Meter2 300 2K LDSS	600 cm ³	2 – 100 cc/s	176 kg	LIFO	Direct	Stainless Steel
N10330027	EcoShot Meter2 300 2K LHSS	600 cm ³	2 – 100 cc/s	167 kg	LIFO	Hose	Stainless Steel
N10330028	EcoShot Meter2 600 2K LDAS	1200 cm ³	2 – 100 cc/s	260 kg	LIFO	Direct	Aluminium
N10330029	EcoShot Meter2 600 2K LHAS	1200 cm ³	4 – 110 cc/s	255 kg	LIFO	Hose	Aluminium
N10330030	EcoShot Meter2 600 2K LDSS	1200 cm ³	4 – 110 cc/s	277 kg	LIFO	Direct	Stainless Steel
N10330031	EcoShot Meter2 600 2K LHSS	1200 cm ³	4 – 110 cc/s	269 kg	LIFO	Hose	Stainless Steel
N10330032	EcoShot Meter2 150/300 2K LDAS	450 cm ³	2 – 70 cc/s	136 kg	LIFO	Direct	Aluminium
N10330033	EcoShot Meter2 150/300 2K LHAS	450 cm ³	2 – 70 cc/s	131 kg	LIFO	Hose	Aluminium
N10330034	EcoShot Meter2 150/300 2K LDSS	450 cm ³	2 – 70 cc/s	152 kg	LIFO	Direct	Stainless Steel
N10330035	EcoShot Meter2 150/300 2K LHSS	450 cm ³	2 – 70 cc/s	142 kg	LIFO	Hose	Stainless Steel
N10330036	EcoShot Meter2 150/600 2K LDAS	750 cm ³	4 – 80 cc/s	182 kg	LIFO	Direct	Aluminium
N10330037	EcoShot Meter2 150/600 2K LHAS	750 cm ³	4 – 80 cc/s	177 kg	LIFO	Hose	Aluminium
N10330038	EcoShot Meter2 300/600 2K LDAS	900 cm ³	4 – 100 cc/s	210 kg	LIFO	Direct	Aluminium
N10330039	EcoShot Meter2 300/600 2K LHAS	900 cm ³	4 – 100 cc/s	206 kg	LIFO	Hose	Aluminium

EcoShot Meter Tandem

Double piston dosing unit for high application volumes

Our **EcoShot Meter2 Tandem** Dosing units are capable of precise metering, even at high application volumes. Our TANDEM metering technology enables the application of volumes higher than the filling volume of a single **EcoShot Meter2** by simultaneous combination of the application- and filling cycle. A modular design allows the mounting to be directly flanged or connected by hose to the applicator. A pedestal stand or robot mounted application is possible.



CUSTOMER BENEFITS



Endless application volumes possible

No limitation of cycle times due to filling cycles

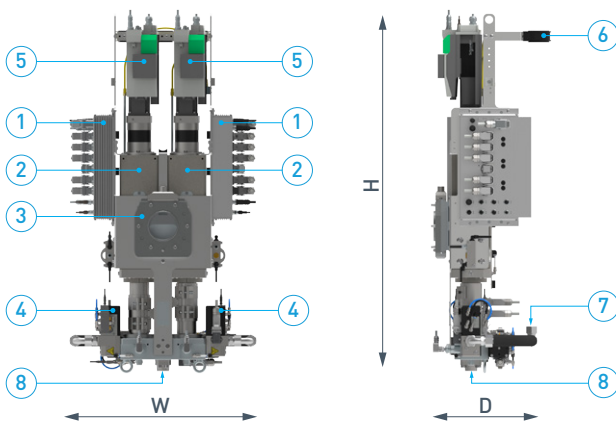
Durable and light design made of aluminium or stainless steel

Wide range of possible materials

Stationary or robot mounted

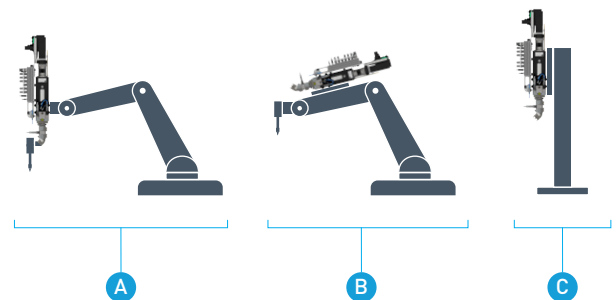
Easy access and maintenance

TECHNICAL ILLUSTRATION



1 EcoMHD Heating device, 2 Metering unit, 3 Mounting flange, 4 Inlet valves, 5 Servo drive, 6 Hose guide, 7 Material inlet, 8 Material outlet

MOUNTING OPTIONS



A Mounted on robot – 6th axis, B Mounted on robot – 3rd axis, C Mounted on pedestal

EcoShot Meter Tandem

Double piston dosing unit for high application volumes

SPECIFICATION

Weight	100 - 180 kg
Mounting hole pattern	4 x M10
Electrical supply	3 x 400 V / N+PE, 50 - 60 HZ, Harting HAN16
Pneumatic connection	Plug-in D8, 5 bar (72 psi) min., 8 bar (116 psi) max.
Mechanical connection	Flange plate or fast exchange tool
Application volume	Depending on product configuration
Connection material inlet	G 3/4"
Connection material outlet	G1" - G3/4"
Volume flow	EcoShot Meter2 150 T: 0.1 - 19 cc/s (LIFO), 0.1 - 22 cc/s (FIFO) EcoShot Meter2 300 T: 50 cc/s
Material pressure max.	250 bar (3,626 psi)
Material temperature max.	80 °C (176 °F)

The specification data mentioned depend on the given material and process and may differ in the respective use and application.

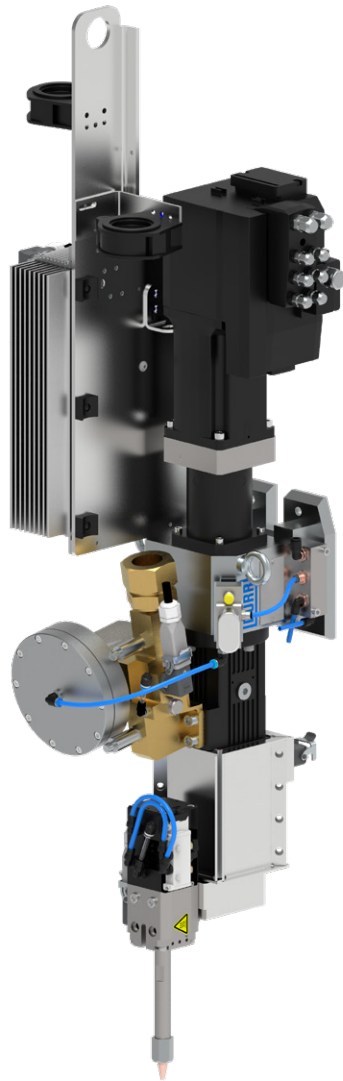
DIMENSIONS

Number	Height (H)	Width (W)	Deep (D)
N10330007	1173 mm	614 mm	371 mm
N10330008	1185 mm	614 mm	382 mm
N10330013	1329 mm	677 mm	350 mm

Number	Height (H)	Width (W)	Deep (D)
N10330014	1371 mm	677 mm	321 mm
N10330041	1185 mm	614 mm	387 mm

ORDER NUMBERS

Number	Description	Stroke	Volume low	Weight	LIFO / FIFO	Connection	Material
N10330007	EcoShot Meter2 150 T FHAS	Stroke Size 150 cm ³	0.1 - 25 cc/s	102 kg	FIFO	Hose	Aluminium
N10330008	EcoShot Meter2 150 T LHSS	Stroke Size 150 cm ³	0.1 - 22 cc/s	116 kg	LIFO	Hose	Stainless Steel
N10330041	EcoShot Meter2 150 T LHAS	Stroke Size 150 cm ³	0.1 - 22 cc/s	170 kg	LIFO	Hose	Aluminium
N10330013	EcoShot Meter2 300 T FHAS	Stroke Size 300 cm ³	1 - 60 cc/s	181 kg	FIFO	Hose	Aluminium
N10330014	EcoShot Meter2 300 T LHSS	Stroke Size 300 cm ³	1 - 60 cc/s	103 kg	LIFO	Hose	Stainless Steel



EcoMeter SP 1K

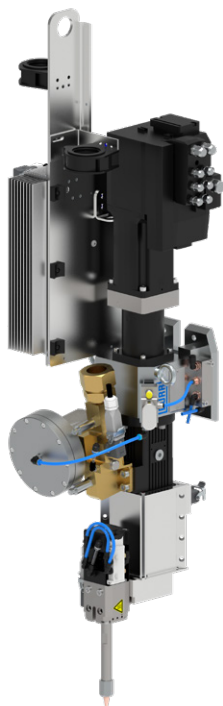
Product families

EcoMeter SP 1K – spindle dosing unit for high application volumes

EcoMeter SP

Spindle dosing unit for high application volumes

Our **EcoMeter SP** single dosing units are capable of precise metering large application volumes, even with high material viscosities and densities. Our spindle dispensing technology allows long beads to be applied without refill cycles, reducing cycle times. As with our **EcoShot Meter2** Dosing Units, the implementation of directly flanged, and hose-bound applicators is possible, as well as a stand- or robot-mounted application. The spindle dosing unit **EcoMeter SP** can be operated with our standard Pump- and system control **EcoHVMP4**.

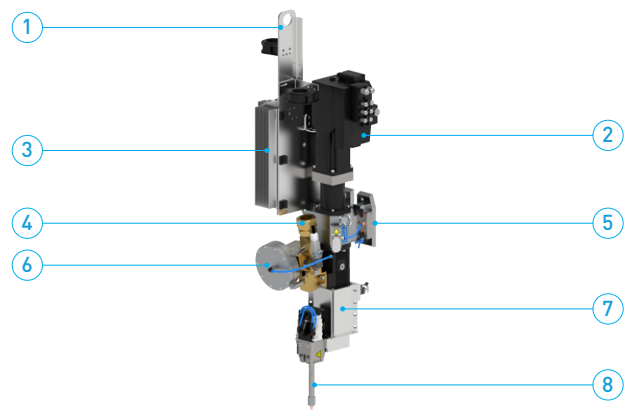


CUSTOMER BENEFITS



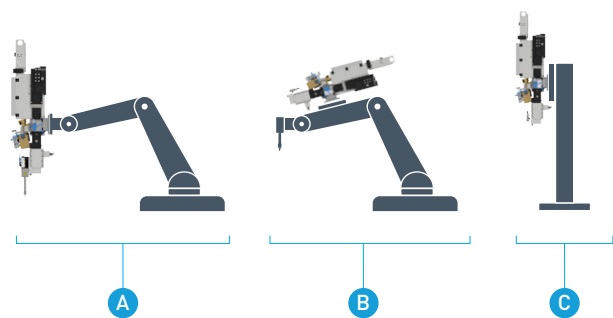
- Suited for very high application volumes and bead lengths
- No limitation of cycle times due to filling cycles
- Durable and light Design made of Aluminium and Stainless Steel
- Wide Range of possible materials
- Stationary or robot mounted
- Easy access and maintenance

TECHNICAL ILLUSTRATION



1 Lifting point, 2 Servo motor, 3 EcoMHD heating device, 4 Material inlet, 5 Mounting flange, 6 Pressure regulator, 7 Spindle, 8 Applicator (optional)

MOUNTING OPTIONS



A Mounted on robot – 6th axis, B Mounted on robot – 3rd axis
C Mounted on pedestal or tower

ORDER NUMBERS

Number	Description
N10210004	EcoMeter SP – direct flanged applicator

EcoMeter SP

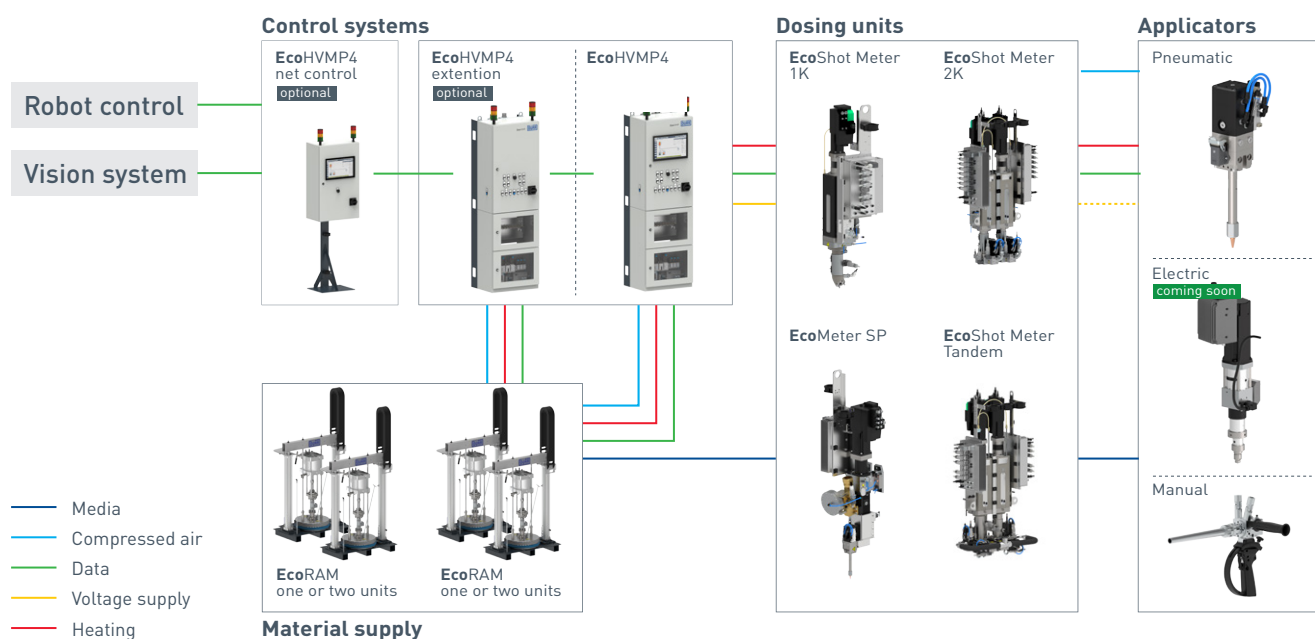
Spindle dosing unit for high application volumes

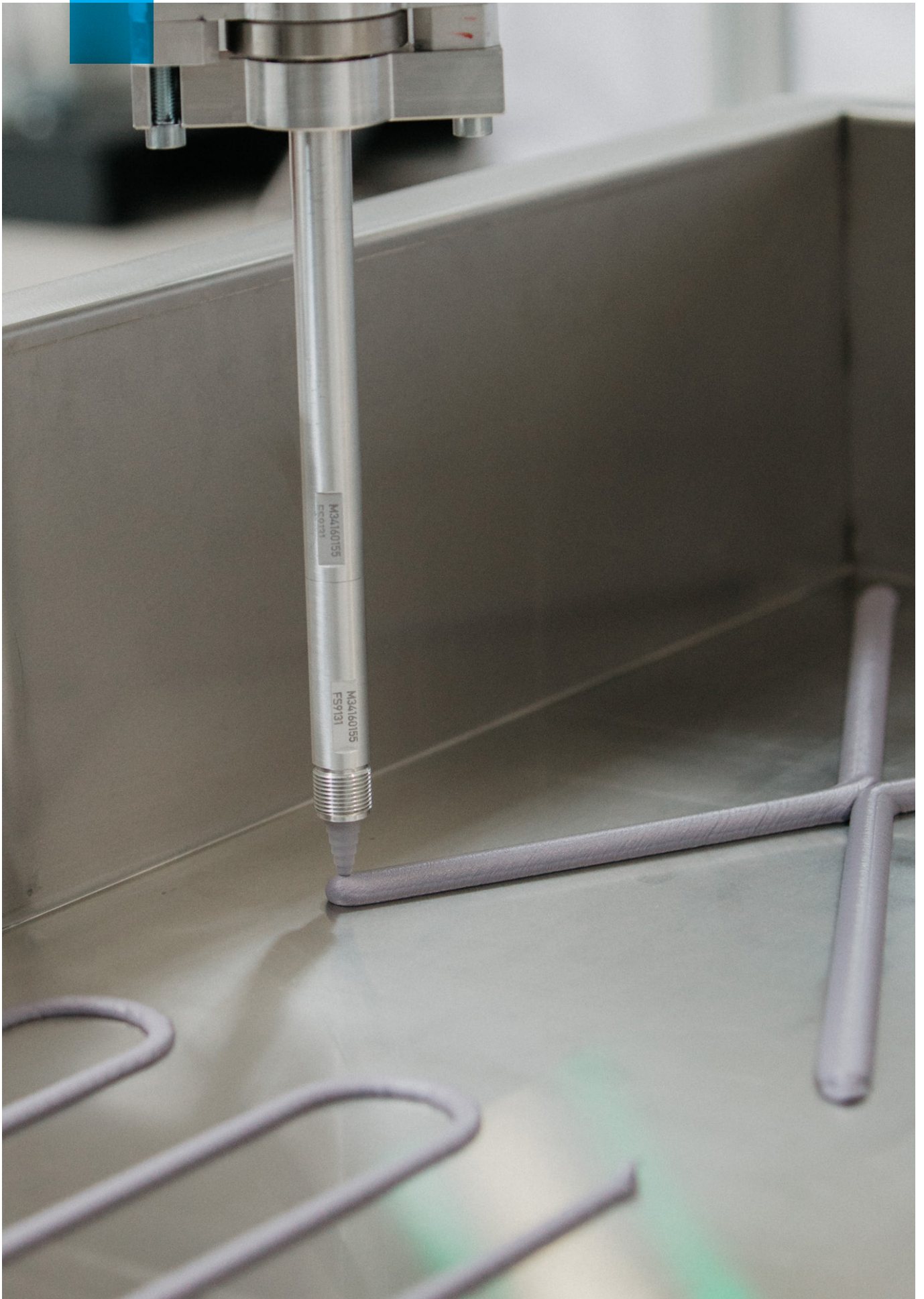
SPECIFICATION

Weight	65 kg
Dimensions	1380 x 325 x 385 mm
Mounting hole pattern	4 x M10
Electrical supply	3 x 400 V / N+PE, 50-60 Hz, Harting HAN16
Pneumatic connection	Plug-in D8, 5 bar min, 8 bar max.
Mechanical connection	Flange plate or fast exchange tool
Volume flow	1 – 24 cc/s
Material pressure, inlet	10 – 360 bar (145 – 5,222 psi)
Material pressure, outlet	10 - 120 bar (145 – 1,740 psi)
Material temperature	20 - 80 °C (68 – 176 °F)
Material viscosity	Up to 500.000 mPas
Connection material input	G 1 ½"
Connection material output	G 1"

The specification data mentioned depend on the given material and process and may differ in the respective use and application.

TECHNICAL ILLUSTRATION



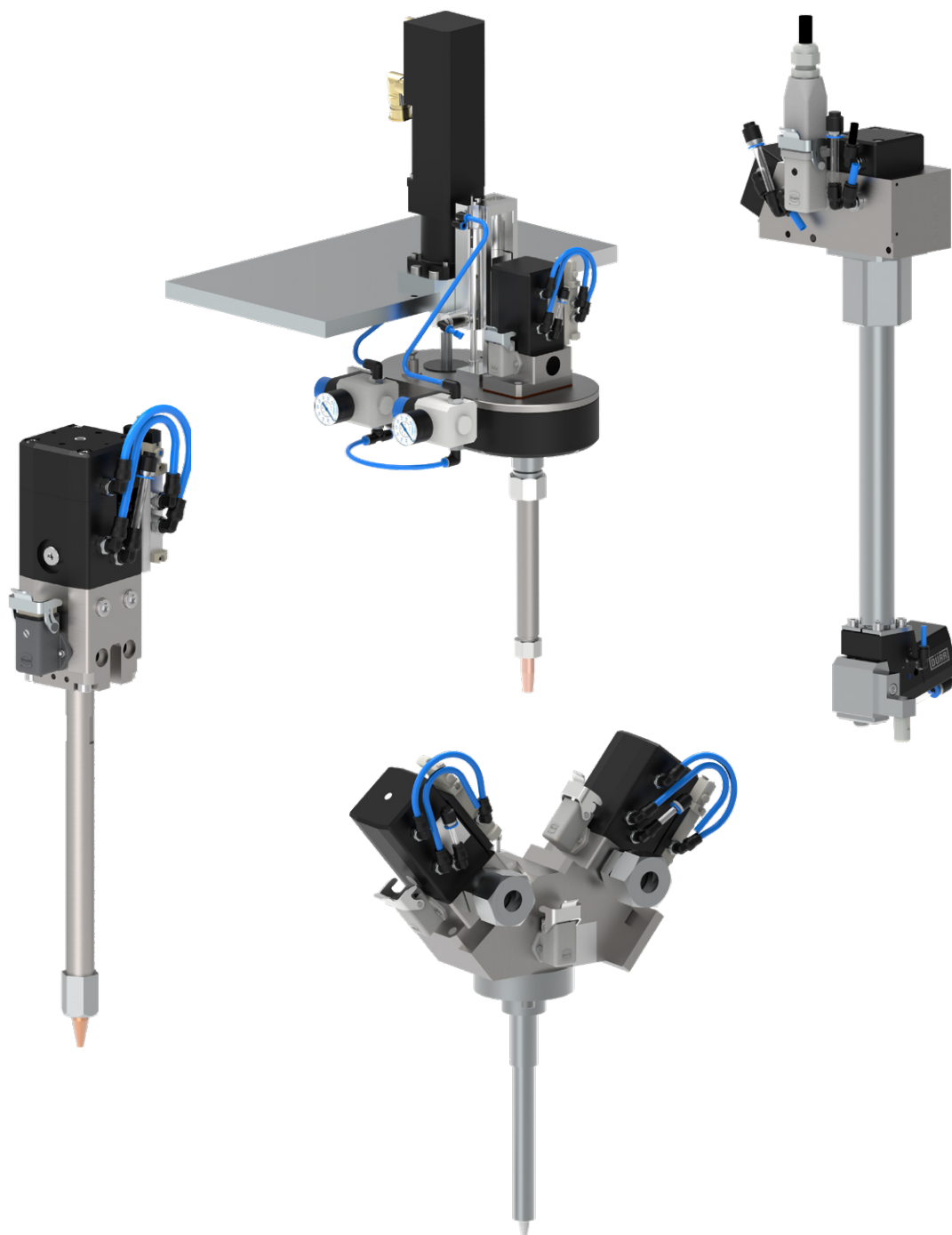


05

Applicators

Product groups

Pneumatic	41
Electric	52
Manual	56



Pneumatic

Air driven applicators

Product families

EcoGun2 PVA04 – applicator for 1K materials

EcoGun2 C – applicator for glazing application

EcoGun F 2K – applicator for 2K materials

EcoGun F 2K CI – applicator for 2K materials with high mixing ratios

EcoGun SWP – applicator for pneumatic swirl application

EcoGun2 PVA04

Applicator for 1K materials

The applicator **EcoGun2 PVA04** can be used in a wide range of applications, such as the application of structural adhesives, or the application of other highly viscous media. Thanks to a wide selection of nozzles, the application geometry can be customised to achieve a high-quality application in every case. The **EcoGun2 PVA04** thus offers a robust solution for achieving consistent quality in a wide range of applications. Simple material applications or sophisticated applications on complex components can be realised using various support tube lengths and nozzle geometries. The installation directly on the dosing unit is possible, as well as an attachment on a robot or pedestal, separating the applicator and dosing unit.



SPECIFICATION

Weight	3.0 kg
Connection to dosing unit	4x M8
Material pressure, max.	250 bar (3,626 psi)
Material connection	G 1/2"
Pneumatic connection	DN6 pneumatic hose
Inlet air pressure	min. 5 bar (72 psi), max. 6 bar (116 psi)
Air quality	ISO 8573-1
Flow, max.	60 cc/s (depending on material type)
Material viscosity	5.000 – 1.000.000 mPas
Heating	200 W (valve body) + 100 W (heated nozzle extension - optional)
Spring loaded	Yes (normally closed)
Application temperature	60 °C (140 °F)

The specification data mentioned depend on the given material and process and may therefore differ in the respective use and application.

CUSTOMER BENEFITS



[Wide Range of possible materials](#)

[Flexible application supported by our extensive nozzle catalog](#)

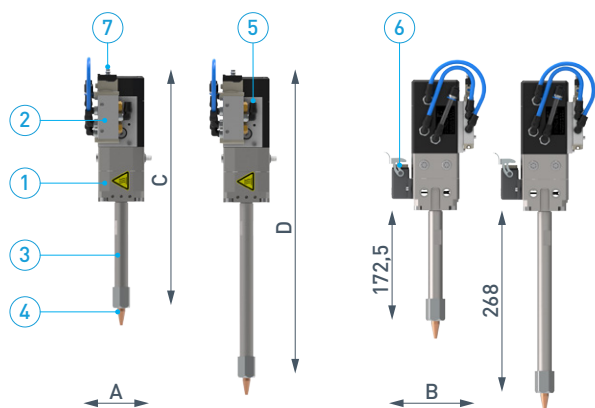
[Covering various use cases through the use of different applicator lengths](#)

[Durable and light Design made of Aluminium or Stainless Steel depending on media](#)

[Material pressure up to 250 bar](#)

[Capable to add vision systems](#)

DIMENSIONS, WEIGHT AND PARTS



1 Heated fluid section, 2 Pneumatic valve, 3 Nozzle extension, 4 Nozzle, 5 Air inlet, 6 Heating power connector, 7 Valve control

Order no.	Width [A]	Height [B]	Depth [D]	Weight
N36800145	84 mm	124 mm	356 mm	2.6 kg
N36800146	84 mm	124 mm	454 mm	2.8 kg
N36800147	84 mm	124 mm	356 mm	3.9 kg
N36800148	84 mm	124 mm	454 mm	4.1 kg
N36600149	84 mm	124 mm	356 mm	2.7 kg
N36600150	84 mm	124 mm	454 mm	2.9 kg
N36800151	84 mm	124 mm	356 mm	4.1 kg
N36800152	84 mm	124 mm	454 mm	4.3 kg

EcoGun2 PVA04

Applicator for 1K materials

ORDER NUMBERS

Number	Description	Direct / Hose mounted	Length	Material
N36600145	EcoGun2 PVA04 D L172,5 Al	Direct	172,5mm	Aluminium
N36600149	EcoGun2 PVA04 H L172,5 Al	Hose	172,5mm	Aluminium
N36600146	EcoGun2 PVA04 D L268 Al	Direct	268mm	Aluminium
N36600150	EcoGun2 PVA04 H L268 Al	Hose	268mm	Aluminium
N36600147	EcoGun2 PVA04 D L172,5 VA	Direct	172,5mm	Stainless Steel
N36600151	EcoGun2 PVA04 H L172,5 VA	Hose	172,5mm	Stainless Steel
N36600148	EcoGun2 PVA04 D L268 VA	Direct	268mm	Stainless Steel
N36600152	EcoGun2 PVA04 H L268 VA	Hose	268mm	Stainless Steel

NOZZLE TYPES



	Round bead nozzle	Round bead nozzle	Nozzle
Nozzle material	Copper	Stainless steel	Stainless steel
Usage	Standard nozzle for non-abrasive media with excellent thermal properties	Nozzle for abrasive media with high filler contents	Nozzle for a minimum of string formation with the needle closing directly at the material exit

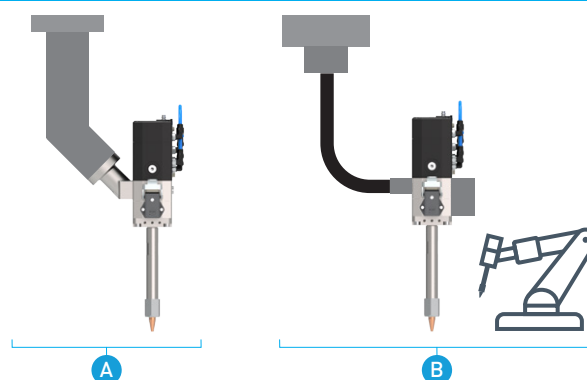
NOZZLE SELECTION

Part No.	Description	Nozzle material
M09090094	Round bead nozzle Ø0,7mm	Copper
M09090068	Round bead nozzle Ø1,0mm	Copper
M09090067	Round bead nozzle Ø1,2mm	Copper
M09090066	Round bead nozzle Ø1,5mm	Copper
M09090065	Round bead nozzle Ø2,0mm	Copper
M09090064	Round bead nozzle Ø2,5mm	Copper
M09090063	Round bead nozzle Ø3,0mm	Copper
M09090090	Round bead nozzle Ø3,5mm	Copper
M09090091	Round bead nozzle Ø4,0mm	Copper
M09090092	Round bead nozzle Ø4,5mm	Copper
M09090093	Round bead nozzle Ø5,0mm	Copper
M09090095	Round bead nozzle Ø6,0mm	Copper
M09090096	Round bead nozzle Ø7,0mm	Copper
M09090073	Round bead nozzle Ø1,0mm	Stainless steel
M09090074	Round bead nozzle Ø1,2mm	Stainless steel
M09090075	Round bead nozzle Ø1,5mm	Stainless steel
M09090076	Round bead nozzle Ø2,0mm	Stainless steel
M09090077	Round bead nozzle Ø2,5mm	Stainless steel
M09090078	Round bead nozzle Ø3,0mm	Stainless steel
M09090114	Nozzle Cap Ø1,0mm *	Stainless steel

Part No.	Description	Nozzle material
M09090062	Nozzle Ø1,5mm *	Stainless steel
M09090061	Nozzle Ø2,0mm *	Stainless steel
M09090058	Nozzle Ø2,5mm *	Stainless steel
M09090060	Nozzle Ø3,0mm *	Stainless steel
M09090059	Nozzle Ø3,5mm *	Stainless steel

* Needle directly closing in nozzle bore

MOUNTING OPTIONS

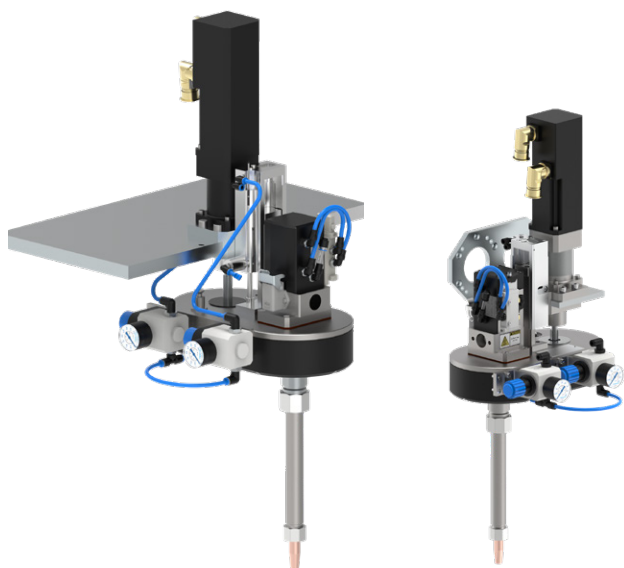


A Direct mounting (on EcoShotMeter unit),
B Mounted on robot or pedestal arm, material supplied by hose

EcoGun2 C

Applicator for glazing application

The **EcoGun2 C** is a pneumatic applicator designed for the robot-guided or stationary application of 1K adhesives or sealants used in the field of automotive glazing processes or the sealing of battery components. It features the ability to accommodate various triangular nozzles, allowing for versatility in application geometry. The **EcoGun C** stands out for its unique design that enables a complete 360° rotation of the application nozzle, independent of the tower or robot. This feature facilitates the continuous application of a circumferential triangular bead. With Z-axis compensation and a sliding application nozzle, the **EcoGun C** allows for precise movement in contact with the substrate, ensuring optimal bead geometry and positioning. Additionally, the use of a vision system enables monitoring of the application process for enhanced quality control.



CUSTOMER BENEFITS



[Robot guided or stationary mounting possible](#)

[Different bead geometries can be achieved by our extensive nozzle catalog](#)

[Complete coverage of the part with fully rotatable nozzle](#)

[Z-axis compensation for a contacting application and best application results](#)

[Material pressure up to 250 bar](#)

[Ready for the use of vision systems](#)

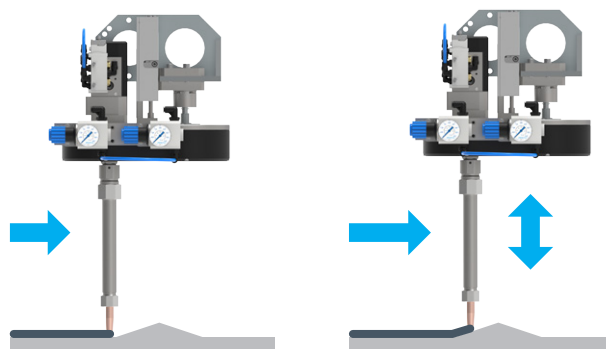
SPECIFICATION

Weight	26.6 kg (Tower) 22.8 kg (Robot)
Size	490 x 330 x 440 mm (Tower) 320 x 360 x 280 mm (Robot)
Material inlet	G 3/4"
Pneumatic connection	G 1/4" hose 4x6 Y Plug connection D6, Hose 4x6
Air supply pressure	5 – 8 bar [72-116 psi]
Switching frequency in continuous operation, max.	3 Hz
Switching frequency, shortterm	10 Hz
Material pressure	Max. 360 bar [5,222 psi]
Flow rate	0 – 20 cc/s

ORDER NUMBERS

Number	Description
N36600039	EcoGun2 C T (tower mounting)
N36600040	EcoGun2 C R (robot mounting)

Z AXIS COMPENSATION

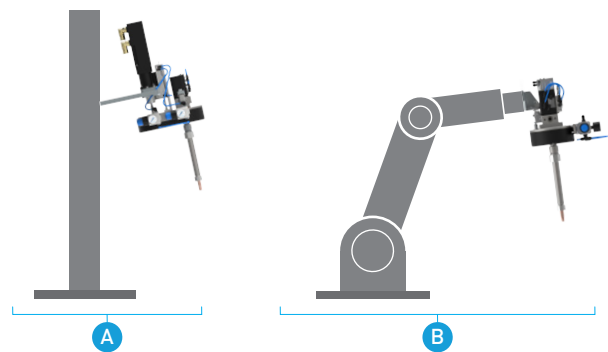


The **EcoGun2 C** enables the application on uneven surfaces. The application head is attached to the base body via a linear rail. When driving over uneven surfaces, the contacting application nozzle can follow the surface contour and thus avoid damage. The contact force can be pneumatically adjusted.

EcoGun2 C

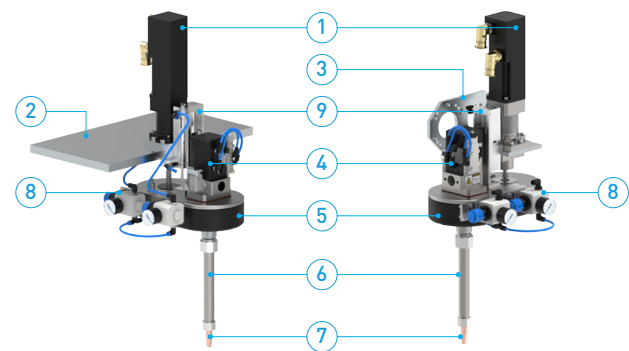
Applicator for glazing application

MOUNTING OPTIONS



- A Tower mounting
B Mounted on robot arm

PARTS



- 1 Servo drive, 2 Mounting board (tower), 3 Mounting flange (robot arm),
4 Needle valve, 5 Gear box, 6 Nozzle tube, 7 Nozzle, 8 Air regulators, 9 Sliding rail

NOZZLE TUBE SELECTION



Number	Description
M34060207	Nozzle tube L100
M34060208	Nozzle tube L150
M34060209	Nozzle tube L200
M34060210	Nozzle tube L250

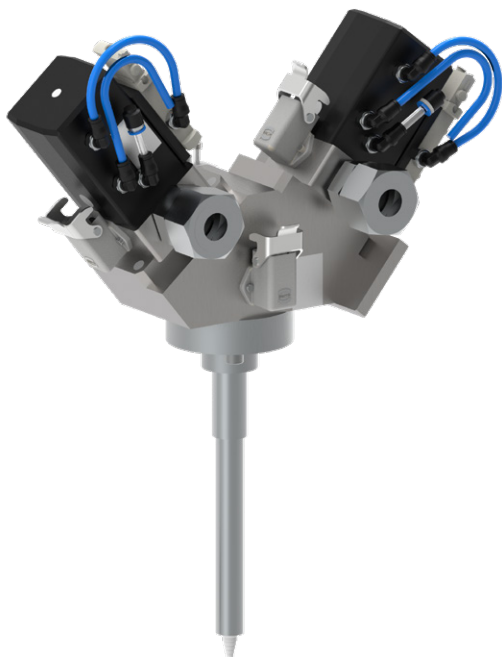
NOZZLE HEATING

Number	Description
F10400072	PVA04 - Heater complete D20 L45 Straight connection 1.2m cable 100W - CE only
F10400104	PVA04 - Heater complete D20 L100 Straight connection 1.2m cable 200W - CE only
F10400140	PVA04 - Heater complete D20 L100 Angled connection 90° 3.2m cable 125W - UL
F10400141	PVA04 - Heater complete D20 L100 Angled connection 90° 1.2m cable 125W - UL
F10400119	PVA04 - Heater complete D20 L100 Angled connection 90° 1.2m cable 200W - CE only

EcoGun F 2K

Applicator for 2K materials

The **EcoGun F 2K** is a pneumatic applicator for processing and applying 2-component materials. The applicator is characterized by a high degree of variability in terms of the materials that can be processed and the process parameters that can be implemented. Thanks to these versatile applications, the **EcoGun F 2K** can be used for a wide range of use cases in the field of final assembly and battery assembly. Thanks to a large selection of nozzle shrouts for static mixers, the applicator can be adapted to the specific material used and thus the best possible mixing quality can be ensured.



CUSTOMER BENEFITS



Versatile use for a wide variety of 2-component materials

Use of different mixer tubes to achieve the best possible mixing qualities

Durable and light design made of Aluminium or Stainless steel depending on configuration

Material pressure up to 250 bar

Ready for the use of vision systems

Robot- and static mounted applicator possible

SPECIFICATION

Part number	N36600109 (AL) N36600118 (SST)
Weight	2.3 kg
Size	191 x 270 x 160mm (WxHxL)
Mechanical connection	4 x M6
Pneumatic connection	G1/8"
Pneumatic pressure	Control air pressure, min. 5 bar (72 psi) Control air pressure, max. 8 bar (116 psi)
Material inlet	G3/4"
Material pressure	Max. 200 bar (2,901 psi)
Heating	80W / 230V (HAN 3A)
Material temperature	Max. 80°C (176°F)

EcoGun F 2K

Applicator for 2K materials

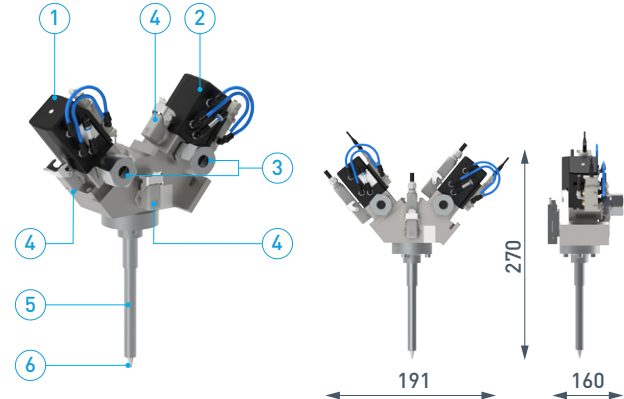
NOZZLE SHROUT SELECTION



Number	Description	Size static mixer
N32500037	Static mixer shroud 13 - 24	13 - 24
N32500036	Static mixer shroud 13 - 18	13 - 18
N32500035	Static mixer shroud 10 - 24	10 - 24
N32500034	Static mixer shroud 10 - 18	10 - 18
N32500033	Static mixer shroud 08 - 24	08 - 24
N32500032	Static mixer shroud 08 - 18	08 - 18
N32500031	Static mixer shroud 06 - 24	06 - 24
N32500030	Static mixer shroud 06 - 18	06 - 18

Other sizes on request

DIMENSIONS & PARTS



1 Valve Comp. A, 2 Valve Comp. B, 3 Material inlet, 4 Power connector heating, 5 Static mixer shroud, 6 Static mixer

EcoGun F 2K CI

Applicator for 2K materials with high mixing ratios

The **EcoGun F 2K** is a pneumatic applicator for processing and applying 2-component materials with very high mixing ratios, typically between 4:1 and 100:1. The applicator is characterized by a centric injection of the hardener component and a separate controllable exit valve to reduce dripping when using low viscosity materials. In addition, the **EcoGun F 2K CI** can be used with the nozzles in our nozzle catalog, so a wide variety of applications can be implemented reliably. We offer different nozzle shrouds for the implementation of different static mixers.



CUSTOMER BENEFITS



Versatile use for a wide variety of 2-component materials

Particularly suitable for high mixing ratios

Separate valve for the elimination of material dripping and clean seam stops

Durable and light design made of aluminium and stainless steel

Material pressure up to 150 bar

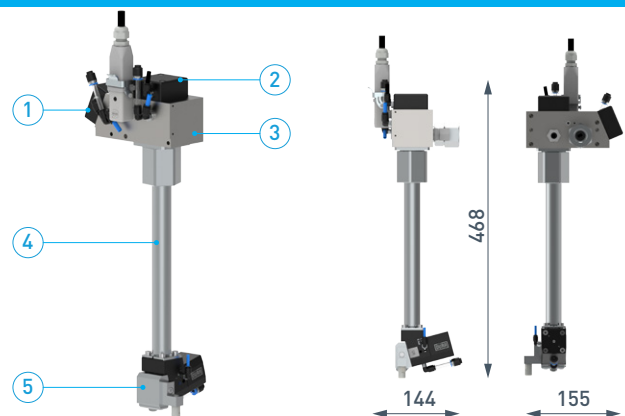
Robot- and static mounted applicator possible

APPLICATION PATTERNS



1 Round bead - small, 2 Round bead - large, 3 Flat stream application,
4 Flat stream application with interruption

PARTS & DIMENSIONS



1 Valve Comp. A, 2 Valve Comp. B, 3 Valve block, 4 Static mixer shroud,
5 Closing valve

EcoGun F 2K CI

Applicator for 2K materials with high mixing ratios

SPECIFICATION

Part number	N36650001
Weight	3.5 kg
Size	155 x 468 x 144 mm (WxHxL)
Mechanical connection	4 x M6
Pneumatic connection	6 mm
Pneumatic pressure	Control air pressure, min. 5 bar (72 psi) Control air pressure, max. 8 bar (116 psi)
Material inlet – component A	G1/2"
Material inlet – component B	G1/4"
Material pressure	Max. 150 bar (2,175 psi)
Max volume flow material (mixed)	18 cc/s
Mixer type	10 – 24 *
Heating	200 W / 230V AC (HAN 3A)
Material temperature	Max. 80 °C (176 °F)

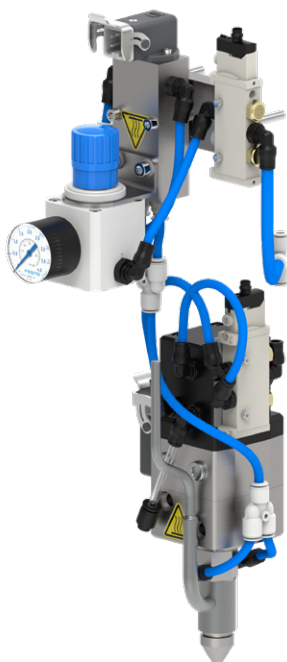
* Static mixer shroud for other mixer sizes on request

EcoGun SWP

Applicator for pneumatic swirl application

The **EcoGun SWp** is a pneumatic applicator for swirl application of 1K materials. The integrated air preheating unit allows the applicator to be adapted to a wide variety of materials while maintaining a high process stability. By adjusting the air flow and pressure, the application pattern can be adjusted according to the process specifications.

The integrated pneumatic valve unit enables a cost-efficient and easy implementation of the swirl application in new or existing processes.



CUSTOMER BENEFITS



[Easy implementation into the process](#)

[Integrated air supply unit for easy and fast adjustment of the application pattern](#)

[Integrated air heating for high process stability](#)

[Small system footprint](#)

[Material pressure up to 250 bar](#)

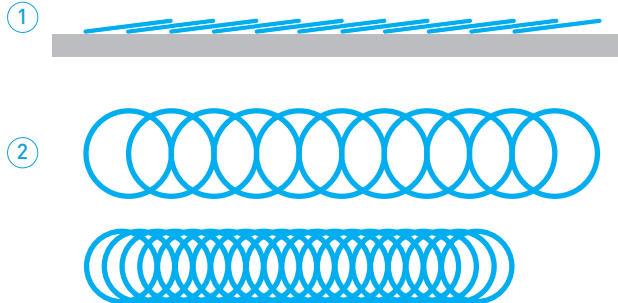
SPECIFICATION

Part number	N36650001
Weight	2.2 kg (applicator only), 3.8 kg (applicator incl. pneumatic unit)
Size	76 x 267 x 108 mm (applicator), 141 x 177 x 152 mm (pneumatic unit)
Mechanical connection	2 x M8 (Connection flange), 2 x M6 (Connection Adapter plate)
Material inlet	Flange connection, Inlet diameter 15 mm (flange connection according to product specifications)
Electrical connection 5/2-way valve	Plug Festo VAVE
Electrical connection heating	Plug Harting HAN 06B (valve heating), Plug Harting HAN 03A (nozzle heating)
Electrical supply voltage - heating	230 V AC, 200 W (heating applicator), 125 W (nozzle heating), 200 W (pneumatic unit)
Pneumatic connection	To 5/2-way valve, 6mm plug connector
Air supply pressure	5 – 8 bar (72 – 116 psi)
Material pressure	Max. 250 bar (3,626 psi)
Flow rate	0 – 25 cc/s
Material temperature	15 – 80 °C (59 – 176°F)

EcoGun SWP

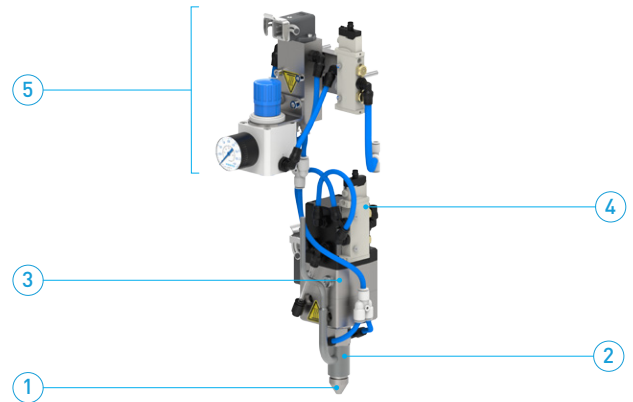
Applicator for pneumatic swirl application

APPLICATION PATTERNS

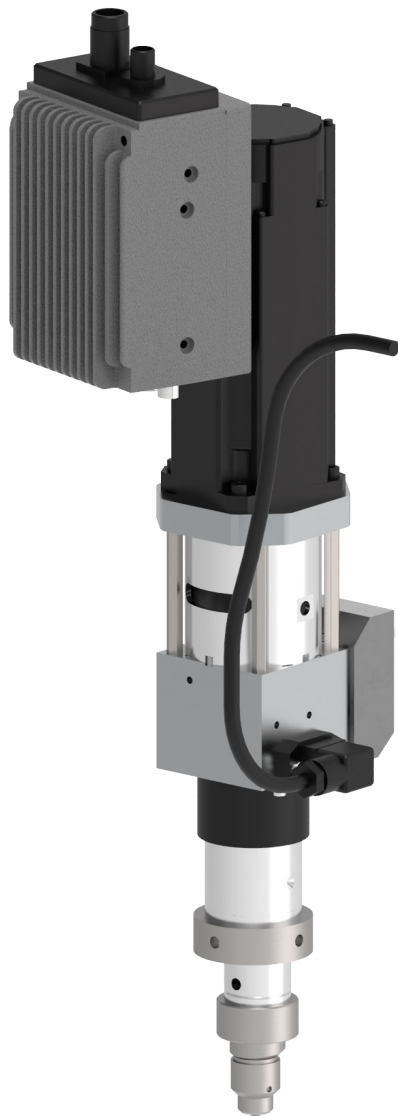


1 Swirl pattern - side view, 2 Swirl pattern adjustment - top view

PARTS



1 Nozzle cap, 2 Nozzle heating, 3 Valve body (material side), 4 5/2 way valve, 5 Pneumatic unit



Electric

Products

EcoGun EVR – stitch bead applicator

EcoGun EVR

Stitch bead applicator

The **EcoGun EVR** is an electrically powered applicator for the application of 1K adhesives. The **EcoGun EVR** is characterized by the electrically driven closing valve, which allows stepless control of the material flow. This allows variable seam diameters and seam lengths to be achieved with consistently high application quality. By means of extremely short switching times, a wide variety of applications such as stitch-bead and dot applications can be implemented. Very high application speeds enable an efficient use in the processing of a wide variety of 1K materials in body shop applications and final assembly.



CUSTOMER BENEFITS



Very short closing times of up to 20ms

Stepless volume flow control for continuous changes of the bead geometry

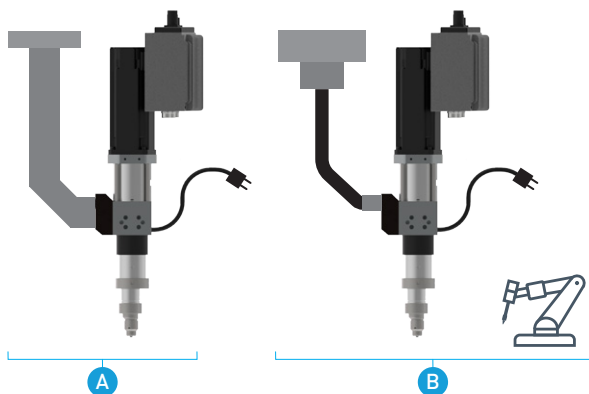
Efficient realization of stitch-bead and dot applications

Material pressure of up to 250 bar

Ready for the use of vision systems

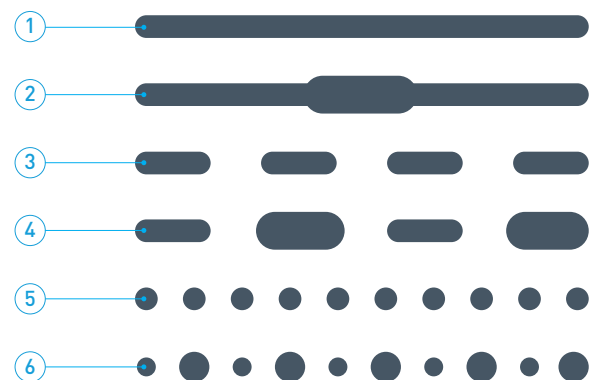
Robot- and static mounted applicator

MOUNTING OPTIONS



- A** Direct mounting (on **EcoShot Meter** unit),
B Mounted on robot or pedestal arm, material supplied by hose

TECHNICAL ILLUSTRATION



- 1** Round bead application, **2** Variable bead geometry, **3** Stitch-bead application,
4 Variable stitch-bead application, **5** Dot application, **6** Variable dot application

EcoGun EVR

Manual air spray guns

SPECIFICATION

Weight	5.8kg (EcoGun EVR D) 5.5kg (EcoGun EVR H)
Dimensions	465 x 117 x 154mm (EcoGun EVR D) 465 x 137 x 136mm (EcoGun EVR H)
Mechanical connection	2 x M8
Electrical connection	Supply voltage 230V AC (6A), M12 connector
Data connection	M12 connector
Material inlet (only EcoGun EVR H)	G1/4"
Material pressure	Max. 250 bar (3,626 psi)
Volume flow	0.5 – 20 cc/s
Material viscosity	200 – 1000 Pas
Heating	120W / 230V (HAN 3A)
Material temperature	80 °C (176 °F)

The specification data mentioned depend on the given material and process and may therefore differ in the respective use and application.

ORDER NUMBERS

Number	Description	Direct / Hose mounted	Material
N36610027	EcoGun2 EVR Direct flanged	Direct	Aluminium
N36610028	EcoGun2 EVR Hose	Hose	Aluminium



Manual

Gluing applicators for manual operation

Product families

EcoGun MAN 1K – manual applicator for 1K materials

EcoGun MAN 2K – manual applicator for 2K materials

EcoGun MAN 1K Core – manual applicator for basic gluing tasks

EcoGun MAN 1K

Manual applicator for 1K materials

Our **EcoGun 1K MAN** manual applicator is used for manual bonding applications of highly viscous materials. The **EcoGun 1K MAN** meets high demands in terms of flexibility and ergonomics. Thanks to standard adjustment options, the application head can be adapted to your requirements, thus ensuring user-friendly operation. This allows a high seam quality to be achieved, the ergonomically design of the handle further reduces fatigue and enables longer working times. We offer an unheated and a heated version for processing different materials.



CUSTOMER BENEFITS



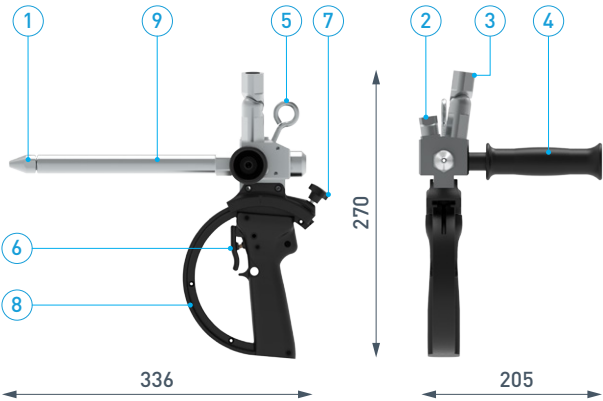
- Wide range of possible materials
- Ergonomic manual application with adjustable nozzle angle
- Pneumatic valve supported trigger for light and consistent trigger forces
- Durable and light design made of aluminium
- Material pressure up to 250 bar

SPECIFICATION

Part number	N36640001 (nonheated) N36640003 (heated)
Weight	1.6 kg
Angle adjustment	0° - 60°
Material pressure, max.	250 bar (3,626 psi)
Material connection	G 3/8"
Pneumatic connection	G 1/4", 8 mm hose
Inlet air pressure	min. 5 bar (72 psi) max. 8 bar (116 psi)
Air quality	ISO 8573-1
Nozzle size	0.8 - 3.0 mm
Flow, max.	22 cc/s
Material viscosity	1,000 - 150,000 mPas
Heating - voltage	230 V AC / 80 W
Spring loaded	Yes (normally closed)
Application temperature	60°C (140 °F)

The specification data mentioned depend on the given material and process and may therefore differ in the respective use and application.

DIMENSIONS & PARTS



- 1 Nozzle (sold separately), 2 Inlet heating, 3 Inlet material, 4 Handle, 5 Attachment point, 6 Trigger, 7 Aretation knob, 8 Handle with rail, 9 Nozzle tube

EcoGun MAN 1K

Manual applicator for 1K materials

NOZZLE TYPES



	Round bead nozzle	Round bead nozzle	Nozzle
Nozzle material	Copper	Stainless steel	Stainless steel
Usage	Standard nozzle for non-abrasive media with excellent thermal properties	Nozzle for abrasive media with high filler contents	Nozzle for a minimum of string formation with the needle closing directly at the material exit

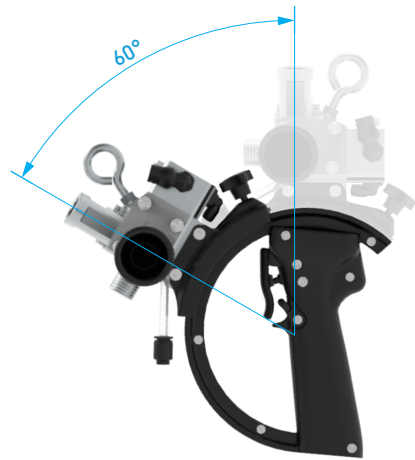
NOZZLE SELECTION

Part No.	Description	Nozzle material
M09090094	Round bead nozzle Ø0.7mm	Copper
M09090068	Round bead nozzle Ø1.0mm	Copper
M09090067	Round bead nozzle Ø1.2mm	Copper
M09090066	Round bead nozzle Ø1.5mm	Copper
M09090065	Round bead nozzle Ø2.0mm	Copper
M09090064	Round bead nozzle Ø2.5mm	Copper
M09090063	Round bead nozzle Ø3.0mm	Copper
M09090090	Round bead nozzle Ø3.5mm	Copper
M09090091	Round bead nozzle Ø4.0mm	Copper
M09090092	Round bead nozzle Ø4.5mm	Copper
M09090093	Round bead nozzle Ø5.0mm	Copper
M09090095	Round bead nozzle Ø6.0mm	Copper
M09090096	Round bead nozzle Ø7.0mm	Copper

Part No.	Description	Nozzle material
M09090073	Round bead nozzle Ø1.0mm	Stainless steel
M09090074	Round bead nozzle Ø1.2mm	Stainless steel
M09090075	Round bead nozzle Ø1.5mm	Stainless steel
M09090076	Round bead nozzle Ø2.0mm	Stainless steel
M09090077	Round bead nozzle Ø2.5mm	Stainless steel
M09090078	Round bead nozzle Ø3.0mm	Stainless steel
M09090114	Nozzle Ø1.0mm *	Stainless steel
M09090062	Nozzle Ø1.5mm *	Stainless steel
M09090061	Nozzle Ø2.0mm *	Stainless steel
M09090058	Nozzle Ø2.5mm *	Stainless steel
M09090060	Nozzle Ø3.0mm *	Stainless steel
M09090059	Nozzle Ø3.5mm *	Stainless steel

* Needle directly closing in nozzle bore

TECHNICAL ILLUSTRATION



Range of handle adjustment

EcoGun MAN 2K

Manual applicator for 2K materials

Our **EcoGun 2K MAN** manual applicator is used for the manual application of two-component materials. Due to its ergonomic design, the **EcoGun 2K MAN** meets high demands in terms of flexibility and ergonomics. The manual applicator is equipped with a swiveling head, so the application head can be adapted to your specific requirements. In addition the trigger of the material flow is supported by a pneumatic valve, thus ensuring a user-friendly operation, even for long periods of time. The ergonomic design allows for high quality applications and reduces fatigue over long periods of use. We offer an unheated and a heated version for processing different materials.



CUSTOMER BENEFITS



[Ergonomic use and handling](#)

[Pneumatically assisted trigger for low and consistent trigger forces](#)

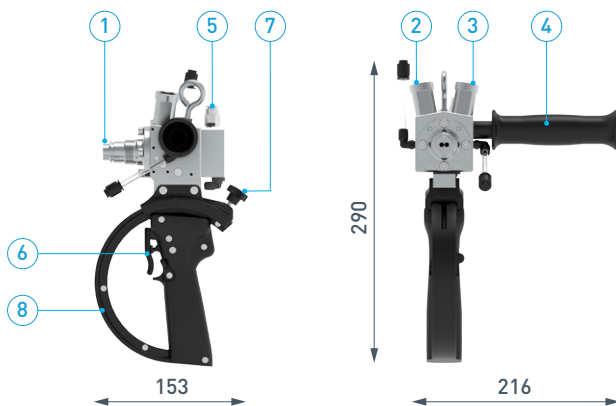
[Flexible range of applications](#)

[Use of a wide range of 2-component materials](#)

[Durable design made out of aluminium](#)

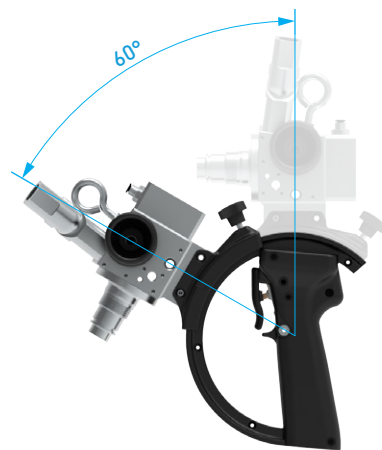
[Material pressure up to 200 bar](#)

DIMENSIONS & PARTS



1 Nozzle connection, 2 Inlet material A, 3 Inlet material B, 4 Handle, 5 Pressure switch, 6 Trigger, 7 Retraction knob, 8 Handle with rail

RANGE OF ADJUSTMENT



Range of handle adjustment

EcoGun MAN 2K

Manual applicator for 2K materials

SPECIFICATION	
Material no.	N36640002
Weight	2.0 kg
Angle adjustment	0° - 60°
Material pressure, max.	250 bar (3,626 psi)
Material connection	G 3/8"
Pneumatic connection	G 1/4", 8 mm hose
Inlet air pressure	min. 5 bar (72 psi), max. 6 bar (116 psi)
Air quality	ISO 8573-1
Mixer connection	16.9 mm (shroud for static mixer according to accessory list)
Flow, max.	28 cc/s
Material viscosity	1,000 - 150,000 mPas
Heating - voltage	230 V AC / 80 W
Application temperature	60 °C (140 °F)

The specification data mentioned depend on the given material and process and may therefore differ in the respective use and application.

ACCESSORIES



	MS 13-24	S 10-24
Part number	M34160191	M34160168
Usage	Mixing shroud for static mixer	Mixing shroud for static mixer

Note: mixing shroud depicted with static mixer (sold separately). Other shroud sizes on request.

EcoGun MAN Core

Manual applicator for 1K materials

The **EcoGun 1K MAN Core** is specifically crafted for basic sealing or bonding tasks. Its lightweight spray gun body offers optimal ergonomics for manually applying 1K materials. With a diverse range of nozzle types, you can apply materials in various patterns and sizes. The external material path enables the application of heated materials up to 60°C.



SPECIFICATION

	EcoGun 1K MAN Core
Part No.	N36290001
Connector fluid	1/4" NPSM (male)
Max. fluid pressure	250 bar [3,626 psi]
Nozzle bracket connector	11/16"-16 UN
Nozzle sizes	see table below
Technical highlights	External material inlet, suitable for paint heating.
Field of use	Glue and sealing applications

Note: nozzles are sold separately

CUSTOMER BENEFITS



Perfectly balanced ergonomic shape of spray gun body that minimizes fatigue

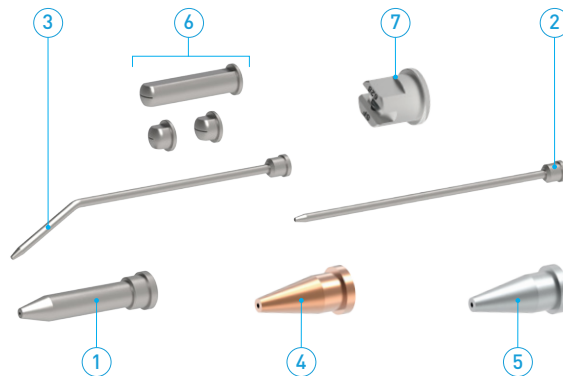
Material passage ways made of stainless steel

External material supplying part allows application of heated paint

Easy cleaning and maintenance

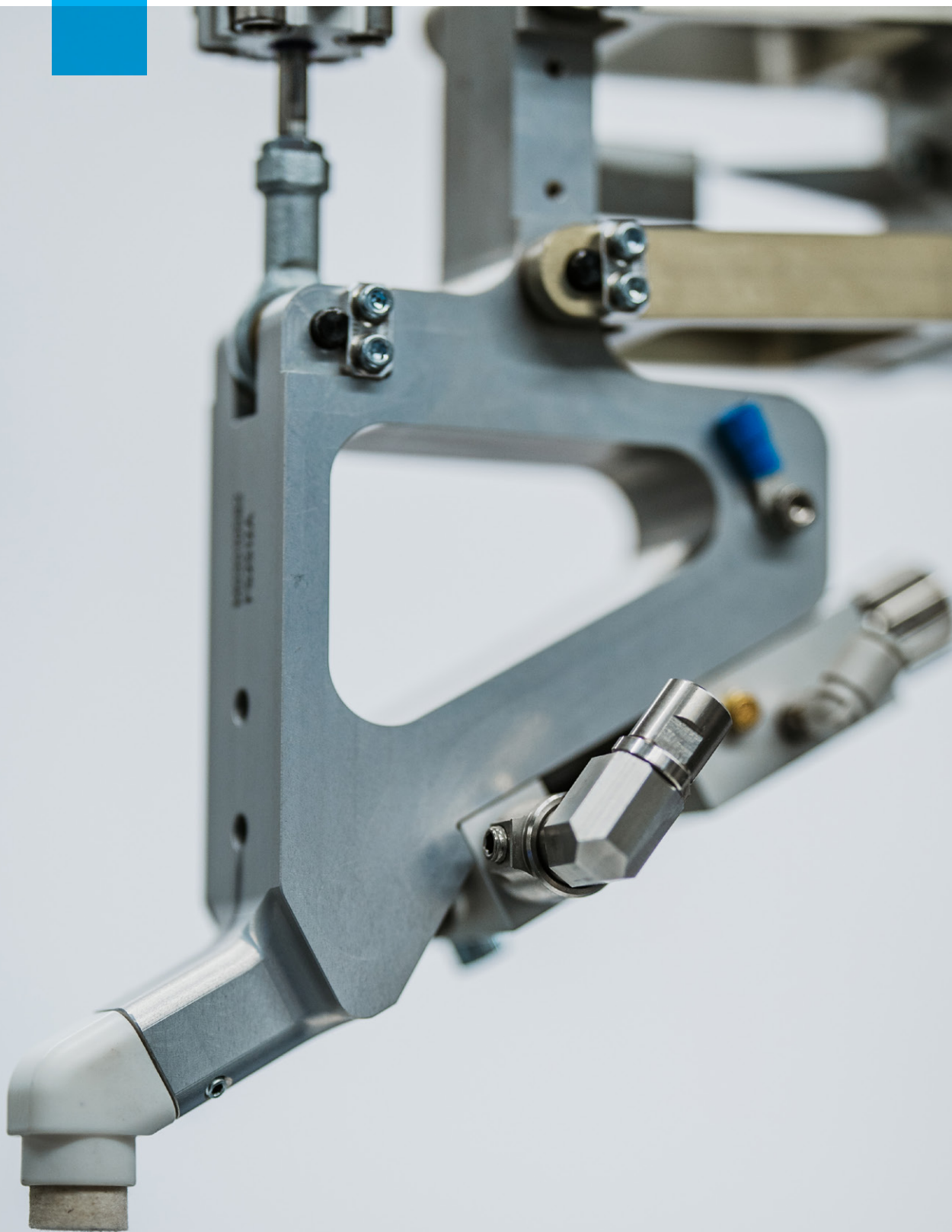
ATEX II 2G Ex EN1953 IIA T60°C X

NOZZLE SELECTION



Pos	Part no.	Size (mm)	Outer diameter (mm)	Usable length (mm)	Material
1	M09090046	1.0	10.3	52	SST
2	M09020985	1.0	6	205	SST
3	K70920063	1.0	6	205 (here of 70 mm x 30°)	SST
4	M09090094 M09090068 M09090067 M09090066 M09090065 M09090064 M09090063 M09090090	0.7 1.0 1.2 1.5 2.0 2.5 3.0 3.5	12	25	Copper
5	M09090073 M09090074 M09090075 M09090076 M09090077 M09090078	1.0 1.2 1.5 2.0 2.5 3.0	12	25	SST
6	M0933... *	0.20 - 0.60	12.5	10 - 50	Tungsten carbide
7	M0902... **	0.43 - 2.4	12.5	7.5	Tungsten carbide

* EcoJet nozzle family, ** Flat paint nozzles family
Whole nozzle scope is available on the webshop.



06

PreTreatment

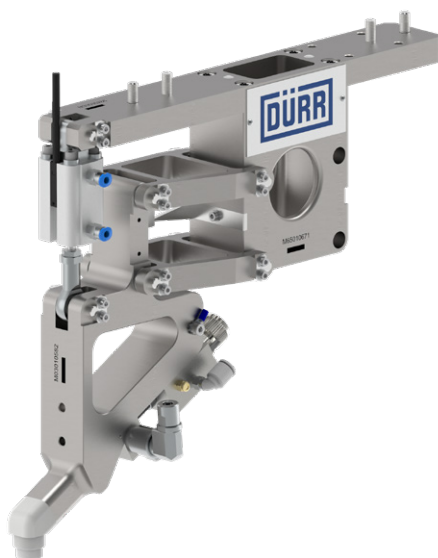
Product groups

EcoGun N	63
EcoSupply PreTreat	64
EcoGun N Service Station	66

EcoGun N

Applicator for pretreatment applications

The **EcoGun N** is an applicator for felt-based pretreatment applications. The application of black and clear primers, as well as the application of cleaning media is possible. Thanks to the precisely adjustable material nozzle, both the smallest quantities of primer and cleaning media can be applied reliably. For a constant and at the same time adjustable contact pressure of the felt application, the **EcoGun N** has a pneumatic preload of the felt carrier. This means that the contact pressure of the felt application can be infinitely adjusted to the respective combination of material and substrate. A low weight allows the **EcoGun N** to be mounted on the robot or on the tower.



CUSTOMER BENEFITS



Felt based application of primer and cleaning media

Adjustable contact pressure of the application felt

Precise volume flow by finely adjustable needle valve

Durable and light weight design

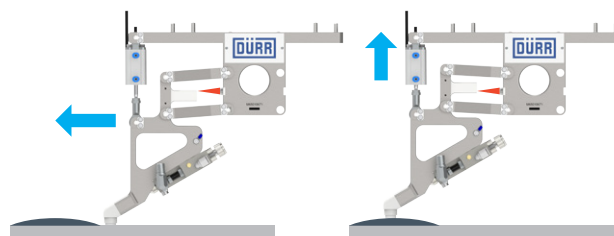
Robot- or pedestal mounting possible

SPECIFICATION

Part number	N36600157
Weight	2.5 kg
Size	90 x 260 x 320 mm
Mechanical connection	2 x M6 x 20
Position monitoring sensor connection	DC 24 V
Material inlet	DN4 plug connector
Material pressure	0 – 1.5 bar (0 – 21 psi)
Pneumatic pressure for valve control	3.5 – 5.0 bar (50 – 72 psi)
Pneumatic pressure adjustable contact pressure felt	0 – 6 bar (0 – 87 psi)
Media temperature	Max. 35 °C (95 °F) *

* always 15 K below the flashpoint of the media used

TECHNICAL ILLUSTRATION



The **EcoGun N** can also be used to apply material on uneven surfaces. A mechanism consisting of a swingarm and the attached application head allows the cylinder on the applicator to compress and thus compensate for the height when driving over elevations and indentations. The contact force can be pneumatically adjusted.

ACCESSORIES

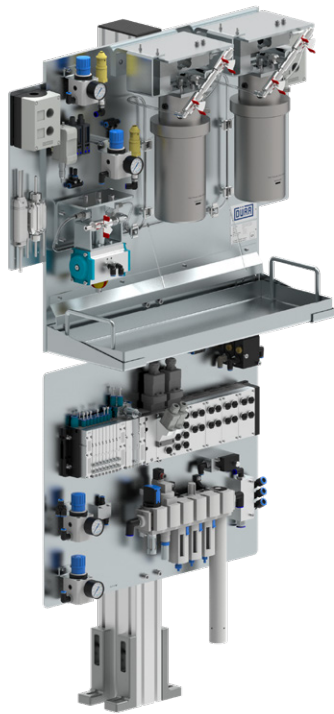
Designation	Diameter	Length	Material number
Application felt	15mm	12mm	M08230027
Application felt	18mm	12mm	M08230058
Brush	9mm	29mm	W20020005
Brush	12mm	29mm	W20020006
Brush	14mm	29mm	W20020009
Brush	16mm	29mm	W20020010
Brush	18mm	29mm	W20020011

EcoSupply PreTreat

Material supply for pretreatment applications

The **EcoSupply PreTreat** material supply system is used to provide and convey low-viscosity media for automated pretreatment processes. In addition, the material supply has functions to determine the filling level of the bottles and pressure control for the delivery pressure and applicator. Two different bottle containers can also be used via two pressure containers. This enables the use of a cleaner and primer medium.

The **EcoSupply PreTreat** material supply enables easy integration of the **EcoGun N** applicator and the associated service station.



CUSTOMER BENEFITS



Versatile use for two materials with easy material exchange

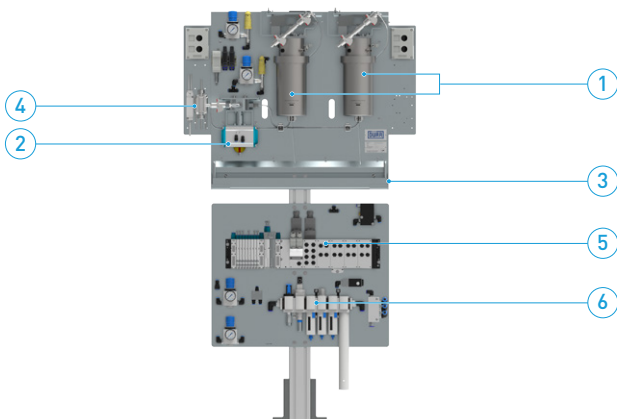
Independent pressure settings for both materials

Onboard air supply for easy integration

Full integration of the **EcoGun N** applicator and Service station possible

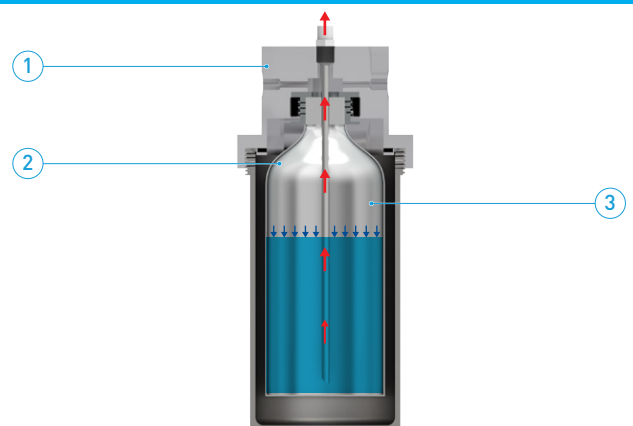
Optional material flow measurement

TECHNICAL ILLUSTRATION



1 Pressure container - material 1 and 2, 2 Pneumatic material switch, 3 Drip tray, 4 Flow sensor (optional), 5 Valve unit, 6 Air supply with air dryer

TECHNICAL ILLUSTRATION



1 Pressure container head, 2 Inner container, 3 Container housing

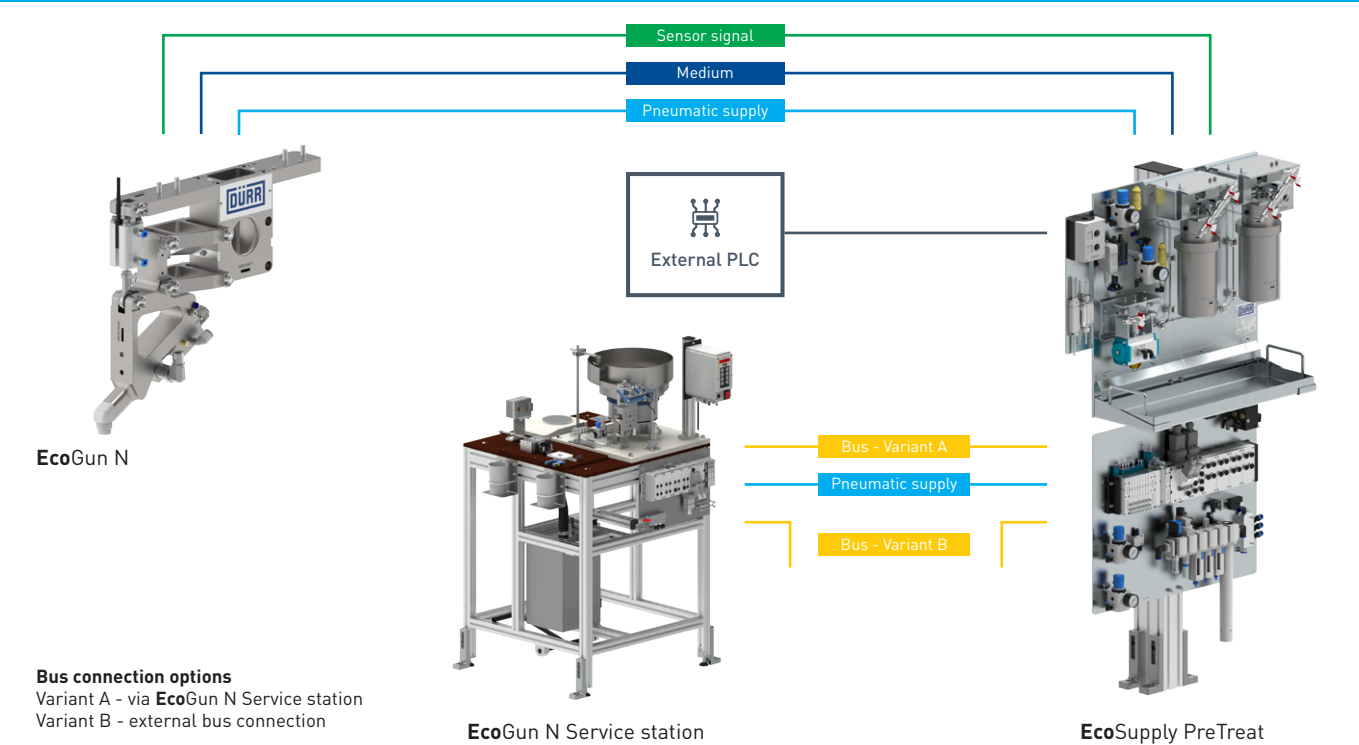
EcoSupply PreTreat

Material supply for pretreatment applications

SPECIFICATION	
Part number	N13510049
Weight	78 kg
Size	400 x 750 x 1500 mm (LxWxH)
Material container	1L Bottle, Round thread DIN 168 GL 40
Pneumatic connection	Main connection Ø 10x1.5mm Container Ø 6x1mm
Pneumatic operating pressure	5 – 8 bar (72 – 116 psi)
Material pressure	0 – 1.5 bar (0 – 21 psi)
Volume flow	0 – 0.5 cc/s
Material line	DN6 connector Max. length 15 m
Control system power connector	CPX-M-GE-EV-S-PP-5POL
Bus connection	ProfiNet bus system Connector CPX-M-FB34
Ambient temperature	10 – 40 °C (50 – 104 °F)

The specification data mentioned depend on the given material and process and may differ in the respective use and application.

TECHNICAL ILLUSTRATION



EcoGun N Service Station

Service Station for felt based primer application

The **EcoGun N** Service Station is used to store, provide and dispose of felt pads used for the felt-based application of pre-treatment media such as primer or cleaning media. In addition, the service station has a measuring unit for moisture measurement, so that the degree of impregnation of the felt pad can be reliably measured and the felt pad is ready can be released for application. The Service Station offers an all-in-one solution for the felt-based pretreatment process. The service station can be used with our **EcoGun N** applicator and the associated **EcoSupply** PreTreat material supply, but also with external application solutions and media supplies.



SPECIFICATION	
Part number	N19020003
Weight	103 kg
Size	840 x 830 x 1360 mm (LxWxH)
Pneumatic connection	D10 plug connection, Container Ø 6x1mm
Pneumatic operating pressure	5 – 8 bar (72 – 116 psi)
Felt size	15 mm x 12 mm
Power connection	Supply voltage 230 V AC (50 – 60 Hz), Control voltage 24 V DC
Control system power connector	F34 Field bus for ProfiNet IO, 2x AIDA push-pull, RJ45
Ambient temperature	10 – 40 °C (50 – 104 °F)

CUSTOMER BENEFITS



All-in-one solution for the felt-based pretreatment process

Automatic supply and check of application felts

Integrated impregnation check for a correct application behaviour of the application felt

Full integration of the **EcoGun N** applicator and Material supply **EcoSupply** PreTreat possible

Sealed disposal container for used application felts

TECHNICAL ILLUSTRATION



- 1 Precision scale, 2 Vibratory spiral conveyor, 3 Felt disposal, 4 Light gate, 5 Solvent container, 6 Disposal container, 7 Pneumatic valve terminal, 8 Volumetric measurement cup, 9 Humidity measurement device

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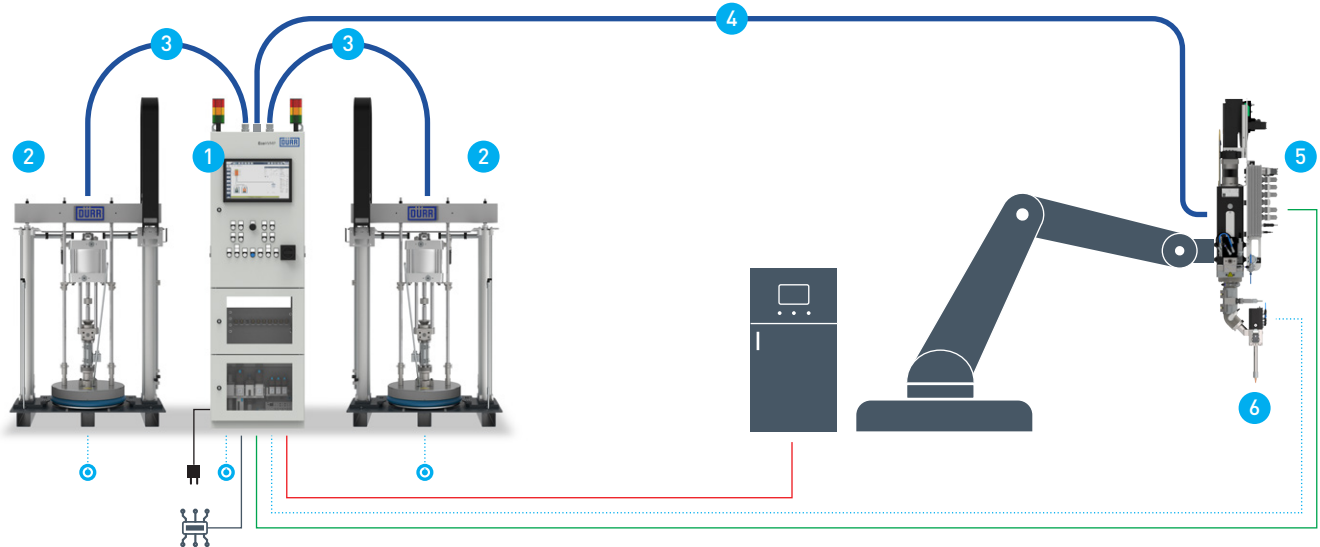
Solutions in Action



Layout examples

MATERIAL SUPPLY DOUBLE RAM WITH EcoShot Meter AND EcoGun PVA04

Use case example: Body in white or adhesive application in battery assembly



COMPONENTS

- Dürr products
- 1 EcoHVM4 - control unit
 - 2 EcoRAM - material supply
 - 3 Media supply
 - 4 Material hoses (cold/heated)
 - 5 EcoShot Meter - dosing unit
 - 6 EcoPVA04 - applicator

Integrator's scope

- Line master PLC / Safety interface
- Gluing robot / Manipulator
- Commissioning

ELECTRIC LINES

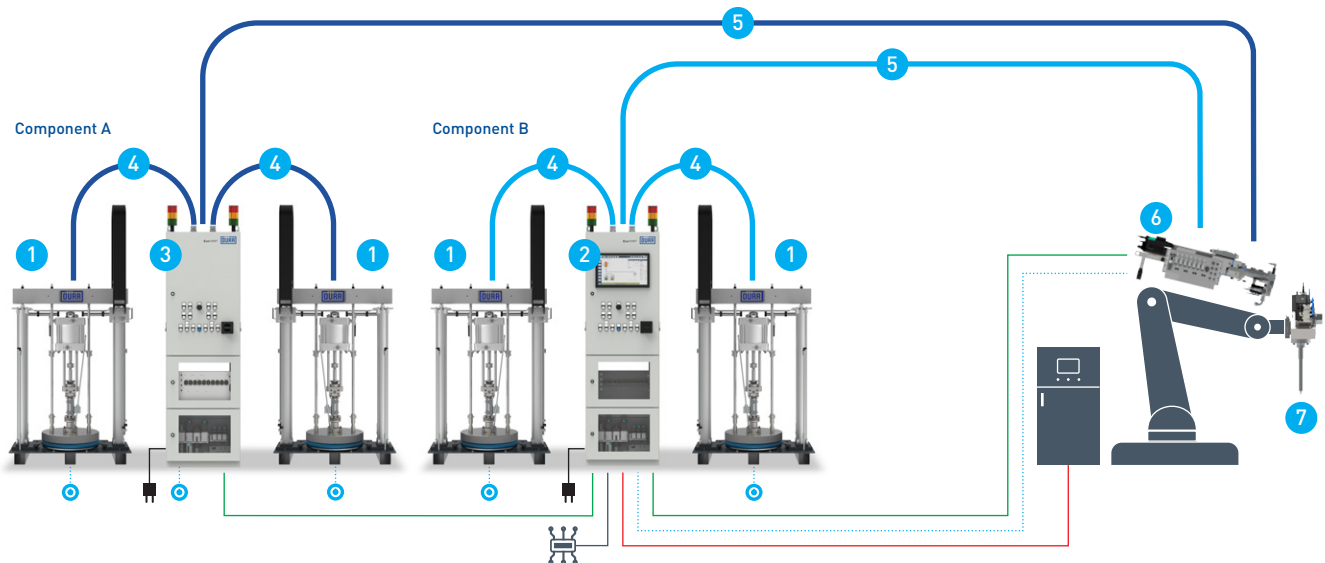
- Profinet / Ethernet IP
- Field bus
- Process data
- Power source

MEDIA

- Material
- Compressed air
- Compressed air supply

MATERIAL SUPPLY QUAD RAM WITH EcoShot Meter 2K AND EcoGun F 2K

Use case example: 2K Gap Filler application in battery assembly



COMPONENTS

- Dürr products
- 1 EcoRAM - material supply
 - 2 EcoHVM4 - control unit
 - 3 EcoHVM4 - pump control
 - 4 Media supply
 - 5 Material hoses (cold/heated)
 - 6 EcoShot Meter 2K
 - 7 EcoGun F 2K

Integrator's scope

- Line master PLC / Safety interface
- Gluing robot / Manipulator
- Commissioning

ELECTRIC LINES

- Profinet / Ethernet IP
- Field bus
- Process data
- Power source

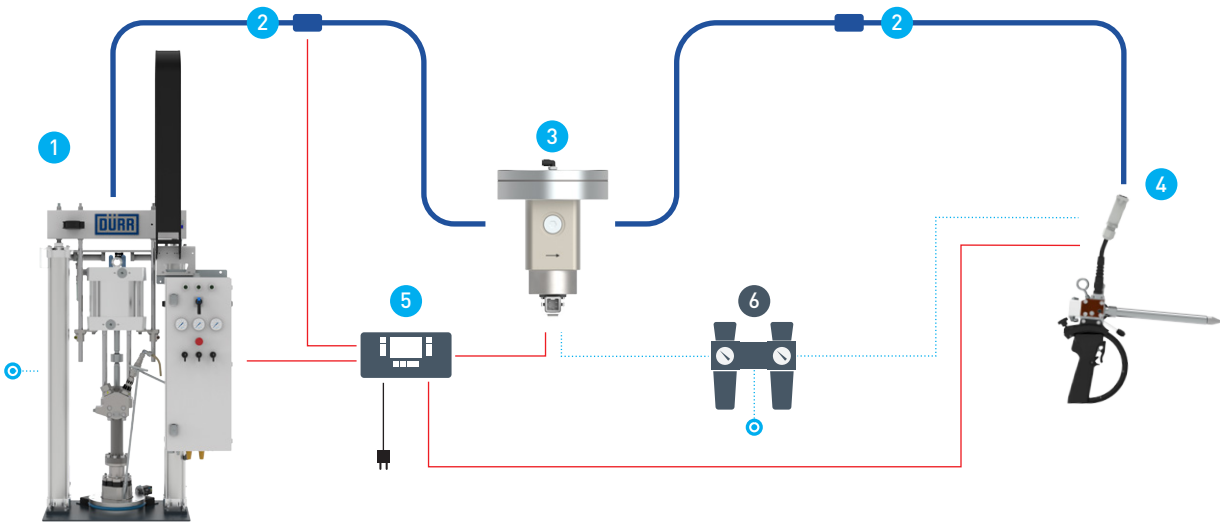
MEDIA

- Material - component A
- Material - component B
- Compressed air
- Compressed air supply

Layout examples

MANUAL GLUING STATION

Use case example: Manual 1K adhesive application



COMPONENTS

- Dürr products
- 1 EcoRAM - material supply with pneumatic control
 - 2 Material hoses [cold/heated]
 - 3 EcoFlow HPF - material regulator [cold/heated]
 - 4 EcoGun 1K MAN - manual applicator [cold/heated]
 - 5 Heating controller [optional]

- Integrator's scope
- 6 Pneumatic components for regulator and applicator control
 - Commissioning

MEDIA

- Material
- Compressed air
- Compressed air supply

ELECTRIC LINES

- Power [heating]
- Power source

RESPONSIBILITY MATRIX

Dürr scope	Single material number Optional configurator available Single components are tested and certified
Integrator scope	Connect the individual products (e.g., cables, hoses, pipes, etc.) Connect main media (air, fluid, power) Integrate with safety concept Set up and fix Program application process, robot move etc.
Products	EcoRAM units - material feeding EcoPump - stand alone pumps EcoShot Meter - dosing EcoGun manual or automatic applicators EcoHVMP4 - control units Heated hoses Accessories

CUSTOMER BENEFITS



- Reduced costs due to lower number of parts for assembly
- Fast commissioning time
- All ready2integrate products are certified and tested
- Easy configuration via online product configurator
- Technical support team

Notes

www.durr.com

LEADING IN PRODUCTION EFFICIENCY



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