



## DATRON Dispensing Accessories



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# DATRON Accessories for Dispensing Systems

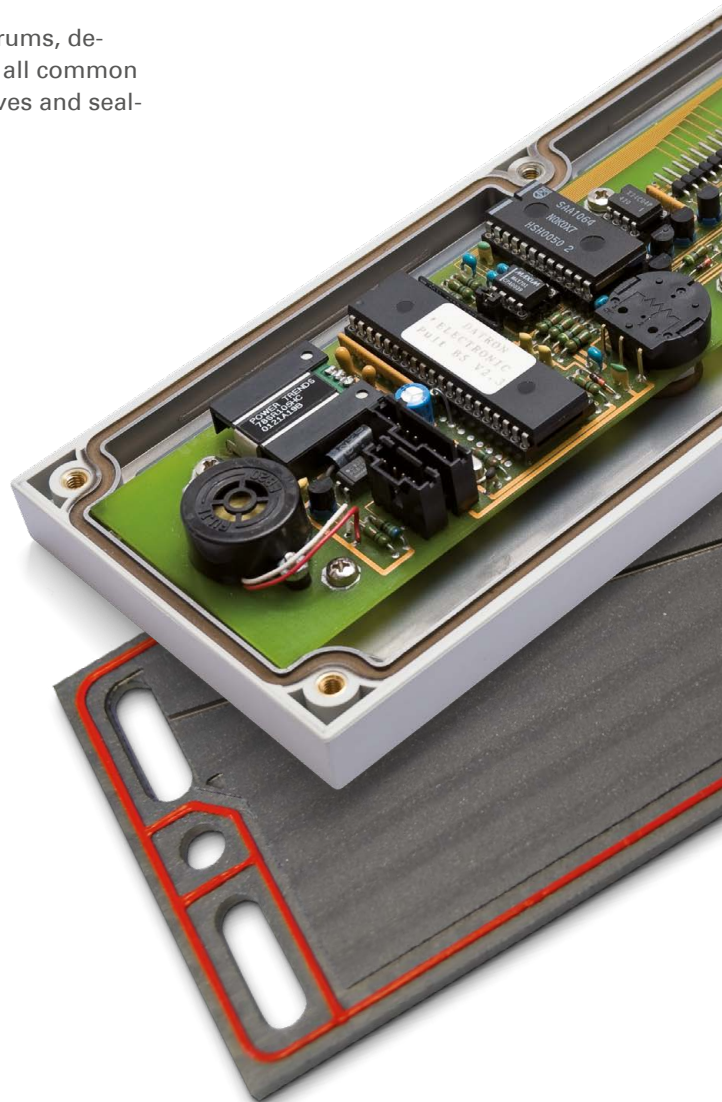
Increase your effectiveness with DATRON accessories

**The exceptionally high dispensing quality, which is achieved independently of traverse speeds, is the essential feature of DATRON's dispensing systems. Their programming, their sensors, the variety of applications and materials as well as significantly different "set-up times" are decisive for cost-effectiveness. Therefore DATRON develops powerful accessories: for effective and thus profitable work.**

Many of the components shown here are the result of long-standing experience in process-safe working with adhesives and sealants and other dispensable materials. Their sophisticated design and practical construction ensure easy and efficient use in your daily manufacturing practice.

The dispensing head is the core of any dispensing system. By integrating the gear pump into the path control system, volumetric dispensing is guaranteed to be speed-change independent at any time. Moreover, variations in viscosity of the dispensing medium are compensated by the design of the patented gear pump, and the regulation technology running in the background compensates the thixotropic behaviour of materials. Start/stop, intersections or T-points are optimized by means of special software features so that docking points are almost fused together.

Material can be fed from cartridges, hobbocks and up to 200-liter drums, depending on your choice. Dispensing heads are available for almost all common 1-component materials such as silicones, MS polymers, UV adhesives and sealants, hot melts, PUR and POP copolymers.



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## Individual Consulting and Order

Our team in the field of dispensing is made up by a group of specialists who will be happy to recommend adequate dispensing solutions and production parameters.



For detailed information call us at:  
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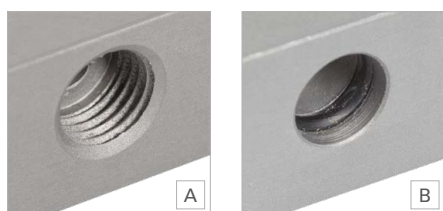


# External Gear Pumps

DATRON's pumps for medium to high viscosity media



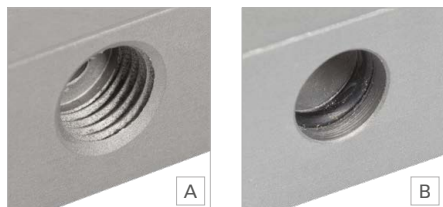
Fig. 1: Pump housing AIMgSi0,5 hard-coated



Detail of connection variants for pump housing AIMgSi0,5 hard-coated



Fig. 2: Pump housing with wear insert, hard-coated



Detail of connection variants for pump housing AIMgSi0,5 hard-coated



Fig. 3: Wear insert for dispensing pump, stainless steel

Due to its compact and precise design, it is suitable for pumping medium to high viscosity, filled and unfilled materials. The cleaning process is as simple and fast to perform as the replacement of the plastic gears. Disassembly of the entire pump from the dispensing head is done without any need for tools.

- **Pump for rotating needles:** for dispensing shaped beads. It can be used with angled dispensing needles, but only in combination with a special drive for rotary needles.
- **External gear pump with wear insert:** For dispensing of filled media. The wear insert increases the pump life many times and thus considerably reduces costs, since only the insert and not the pump housing has to be replaced.

Technical Data	External gear pump
Capacity	0.15 cc/rev.
Viscosity range	100,000 up to 1,000,000 mPas
Pumping gear wheels	Plastics
Housing	Hard-coated Aluminium
Size (W x H x D)	50 x 40 x 19 mm
Weight	0.08 kg
Input connection	Ø 6 mm
Output connection	5/16-28 UN

Order Description	Article Number
Pump cover, hard-coated and laser-labelled	07007479
Pump housing AIMgSi0,5 hard-coated (Fig.1) (A)	07007480
Pump housing for rotating needle, hard-coated (B)	07010390
Pump housing with wear insert, hard coated (Fig. 2) (A)	07010388
Pump housing for rotating needle with wear insert (B)	07012968
Wear insert for dispensing pump, stainless steel (Fig. 3)	07010389

# Accessories

## for external gear pumps

Order Description	Article Number
Dispenser gear Z5 POM red, unfilled media	07007416
Gears for medium to high viscosity, unfilled media	

Order Description	Article Number
Dispenser gear Z9 POM blue, for filled media	07007482
Gears for medium to high viscosity, filled media up to 50 µm particle size	

Order Description	Article Number
Adapter 5/16-28 UN for male Luer-lock	0074915
Thread 5/16-28 UN and male Luer-lock outlet	

Order Description	Article Number
O-Ring 25 x 2, FPM 75 Shore, brown	0074910
O-Ring 25 x 2, EPDM 80 Shore, violet	0074910B
O-Ring 11 x 2, FPM 80 Shore, brown	0074905
O-Ring 11 x 2, EPDM 80 Shore, violet	0074905B
O-Ring 6 x 1, FPM 75 Shore, brown	0074901
O-Ring 6 x 1, EPDM 80 Shore, violet	0074901B

The colour coding is used to distinguish the different O-ring materials. The O-ring is selected depending on the consistency of the material to be dispensed or cleaned.

Order Description	Article Number
O-Ring 6 x 1.5 72 NBR, black (for rotatable needle)	0074003
O-Ring 6 x 1.5 EPDM 70 Shore, violet (for rotatable needle)	0074003A
O-Ring 6 x 1.5 FPM 70 Shore, brown (for rotatable needle)	0074003B

Order Description	Article Number
Adapter bajonet catch to 5/16-28 UN (for rotatable needle)	0690275N
Adapter bajonet catch to special nozzle (for rotatable needle)	0690275M

To accommodate Luer-lock adapters. To accommodate special nozzles.

Order Description	Article Number
10 ml grease syringe, filled with Teflon grease	0074921
Zinc-coated M4 knurled screw	0072707



# External Gear Pumps (large)

DATRON's pumps for medium to high viscosity media



07007479



07009458

Due to its compact and precise design, it is suitable for pumping medium to high viscosity, filled and unfilled materials. The cleaning process is as simple and fast to perform as the replacement of the plastic gears. Disassembly of the entire pump from the dispensing head is done without any need for tools.

Technical Data	External radius pumps (large)
Capacity	0.23 cc/rev.
Viscosity range	100,000 up to 1,000,000 mPas
Pumping gear wheels	Plastics
Housing	Hard-coated Aluminium
Size (W x H x D)	50 x 40 x 21 mm
Weight	0.09 kg
Input connection	Ø 8 mm
Output connection	5/16-28 UN

Order Description	Article Number
Pump cover, hard-coated and laser-labelled	07007479
Pump housing for 5 mm gears AlMgSi0,5, hard-coated	07009458



# Accessories

for external gear pumps (large)

Order Description	Article Number
Dispenser gear Z5 POM white, unfilled media	07009457
Gears for medium to high viscosity, unfilled media	



Order Description	Article Number
Adapter 5/16-28 UN for male Luer-lock	0074915
Thread 5/16-28 UN and male Luer-lock outlet	



Order Description	Article Number
O-Ring 25 x 2, FPM 75 Shore, brown	0074910
O-Ring 25 x 2, EPDM 80 Shore, violet	0074910B
O-Ring 11 x 2, FPM 80 Shore, brown	0074905
O-Ring 11 x 2, EPDM 80 Shore, violet	0074905B
O-Ring 8 x 2, FPM 80 Shore, brown	0074902
O-Ring 8 x 2, EPDM 80 Shore, violet	0074902B



The colour coding is used to distinguish the different O-ring materials. The O-ring is selected depending on the consistency of the material to be dispensed or cleaned.

Order Description	Article Number
10 ml grease syringe, filled with Teflon grease	0074921
Zinc-coated M4 knurled screw	0072707



# Internal Gear Pumps

DATRON's pumps for low to high viscosity unfilled media



DATRON's internal gear pump is a high-precision gear pump designed for pumping low to high viscosity, unfilled media. Due to its precise design, it has good suction abilities and pulsation-low dispensing with a wide range of speeds.

Technical Data	Internal gear pump
Capacity	0.06 up to 0.6 cc/rev.
Viscosity range	1 up to 1,000,000 mPas
Pumping gear wheels	Hardened steel
Housing	Steel
Size (W x H x D)	35 x 35 x 50 mm
Weight	0.33 kg
Input connection	G1/8"
Output connection	G1/8"

Order Description	Capacity	Article Number
Internal gear pump 0.06 ccm IZP-5954	0.06 cc/rev.	0690276C
Internal gear pump 0.30 ccm IZP-4002	0.3 cc/rev.	0690276B
Internal gear pump 0.60 ccm IZP-4004	0.6 cc/rev.	0690276D
Internal gear pump 0.06 ccm IZP-5954, special version with adapter and threaded bushing	0.06 cc/rev.	0690276E

# Accessories

for internal gear pumps

Order Description	Article Number
Adapter 1/8" NPT for male Luer-lock	0074916
Adapter G1/8" for male Luer-lock, stainless steel	0074919

Thread 1/8" NPT and male Luer-lock outlet  
Thread 1/8" and male Luer-lock outlet

Order Description	Article Number
O-Ring 26 x 1 NBR 70° Shore, black	0074926E
O-Ring 26 x 1 EPDM 70° Shore, violet	0074926F
O-Ring 26 x 1 FPM 80° Shore, brown	0074926H
O-Ring 6 x 1,5 72 NBR, black	0074003
O-Ring 6 x 1,5 EPDM 70 Shore, violet	0074003A
O-Ring 6 x 1,5 FPM 70 Shore, brown	0074003B
O-Ring 6 x 1, FPM 75 Shore, brown	0074901
O-Ring 6 x 1, EPDM 80 Shore, violet	0074901B
Sealing ring 1/8" Hard PVC	0069892
Copper sealing ring 1/8" (alternative to 1/8" sealing ring)	0069896

The colour coding is used to distinguish the different O-ring materials. The O-ring is selected depending on the consistency of the material to be dispensed or cleaned.

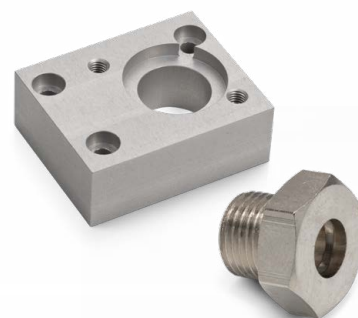
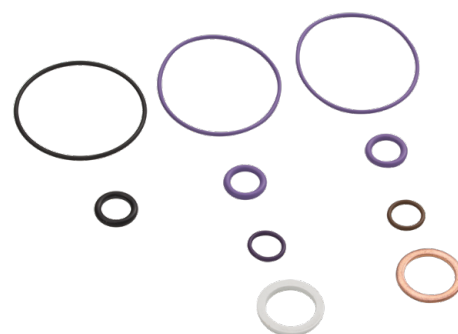
Order Description	Article Number
Adapter for internal gear pump	07007472

Order Description	Article Number
Adapter Ø 6 mm to G1/8" for internal gear pump	07007494

Order Description	Article Number
Coupling for internal gear pump No.1 D=6mm/D=5.7mm	07007478
Coupling for internal gear pump No. 2 D=6mm/D=6mm	07010313

When the drive shaft of the internal gear pump has a shoulder, coupling No.1 is used.

Order Description	Article Number
Fastening screw M4x20	0071609A
Fastening screw M5x45	0071615B



# Hot Melt Pumps

DATRON's pumps for hot melts



High-precision, heatable gear pump made of high chromium alloy corrosion-resistant steel for all common hot melt adhesives and reactive hot melt adhesives. Due to its special design, it operates quietly and with low pulsations in a wide range of speeds.

The special shaft seal with buffer fluid prevents the penetration of air moisture into the pumping chamber, thus avoiding an undesired reaction of the material inside the pump.

The hot melt pump is used for unfilled, low to high viscosity and heatable media up to a temperature of 180° C.

Technical Data	Hot melt pump
Capacity	0.08 up to 3.0 cc/rev.
Viscosity range	1 up to 1,000,000 mPas
Temperature range	Max. 180° C
Pumping gear wheels	High chromium alloy steel
Housing	High chromium alloy steel
Size (W x H x D)	65 x 55 x 55 mm
Weight	1.1 kg
Input connection	G1/4"
Output connection	G1/4"

Order Description	Capacity	Article Number
Gear pump S14-0.08	0.08 cc/rev.	0074928
Gear pump S14-0.16	0.16 cc/rev.	0074928A
Gear pump S14-0.30	0.30 cc/rev.	0074928B
Gear pump S14-0.60	0.6 cc/rev.	0074928C
Gear pump S14-1.20	1.20 cc/rev.	0074928D
Gear pump S14-1.60	1.60 cc/rev.	0074928E
Gear pump S14-2.40	2.40 cc/rev.	0074928F
Gear pump S14-3.00	3.00 cc/rev.	0074928G

# Accessories

for hot melt pumps

Order Description	Article Number
Sealing ring SJ-V (replacement) part 23 - D=10	0069893B
Sealing ring SJ (replacement) part 24 - D=10	0069893C
Lantern ring (replacement) part 22 - D=10	0069893D



Order Description	Article Number
Dispensing needle M4x0.5 Inner Ø 0.9 mm	0700775D
Dispensing needle insert G1/4" to M4x0,5	07007749



Order Description	Article Number
Nozzle, divisible, Ø 4.0 and 4.5 mm (complete)	0690701
Straight bolted connection with external thread G1/4"	00698371
Nozzle, upper part, CW614N (CuZn39Pb3)	07013983
Nozzle, lower part, Ø 4 mm, CW614N (CuZn39Pb3)	07015705
Nozzle, lower part, Ø 4.5 mm, CW614N (CuZn39Pb3)	07015706



Order Description	Article Number
Oil level indicator 80 mm, 90° connection G1/8, DIN 3018	0074928I



# Fluid Plus Pumps (external gear pumps)

DATRON's pumps for feeding material from bulk containers



High-precision gear pump made of high chromium alloy corrosion-resistant stainless steel for 1-component and 2-component media.

The Fluid Plus pump is used for unfilled and low to high viscosity media.

Technical Data	Fluid Plus Pump
Capacity	0.08 up to 3.0 cc/rev.
Viscosity range	1 up to 1,000,000 mPas
Pumping gear wheels	High chromium alloy steel
Housing	High chromium alloy steel
Size (W x H x D)	65 x 55 x 55 mm
Weight	1.1 kg
Input connection	G1/4"
Output connection	G1/4"

Order Description	Capacity	Article Number
Gear pump S14-0.08	0.08 cc/rev.	0074928
Gear pump S14-0.16	0.16 cc/rev.	0074928A
Gear pump S14-0.30	0.30 cc/rev.	0074928B
Gear pump S14-0.60	0.6 cc/rev.	0074928C
Gear pump S14-1.20	1.20 cc/rev.	0074928D
Gear pump S14-1.60	1.60 cc/rev.	0074928E
Gear pump S14-2.40	2.40 cc/rev.	0074928F
Gear pump S14-3.00	3.00 cc/rev.	0074928G

# Accessories

for fluid plus pumps (external gear pumps)

Order Description	Article Number
Adapter G1/4" NPT for male Luer-lock, Plastic PP, white	0074916A
Thread 1/4 Zoll NPT and male Luer-lock outlet	

Order Description	Article Number
Lantern ring (replacement) part 22 - D=10	0069893D
Seal 10x16.2x3.7, FPM 85° Shore, brown	0069893E
Rotor seal 10x16.2x2.7, Polyester/PTFE	0069893F
O-Ring 12.42x1.78, FPM 75° Shore, black	0069893G

Order Description	Article Number
Nozzle divisible, Ø 4.0 and 4.5 mm (complete)	0690701
Straight bolted connection with external thread G1/4"	00698371
Nozzle, upper part, CW614N (CuZn39Pb3)	07013983
Nozzle, lower part, Ø 4 mm, CW614N (CuZn39Pb3)	07015705
Nozzle, lower part, Ø 4.5 mm, CW614N (CuZn39Pb3)	07015706

Order Description	Article Number
Adapter from Ø 8 mm to G1/4" for Fluid Plus Pumps	07015760
O-Ring 8 x 2, FPM 80 Shore, brown	0074902
O-Ring 8 x 2, EPDM 80 Shore, violet	0074902B



# Micro Pumps

For smallest-quantity pumping of filled and unfilled media



This pump is ideal for dispensing electrically conductive epoxy resin adhesives used as an alternative to lead-containing solders. Application example: production of very fine conductive contact strips on solar cells. The pump is small, compact, precise and suitable for pumping, filled and unfilled medium to high viscosity materials.

This pump is designed as an adaptation to the DATRON iVD Micro dispensing head.



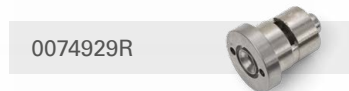
0074929M



0074929N



0074929P



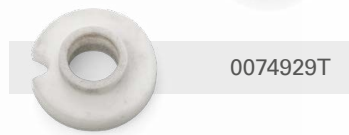
0074929R



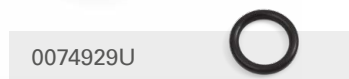
0074929R



0074929S



0074929T



0074929U



0074929V



0074929W

Technical Data	Micro pump
Pumping performance (dependent on viscosity and initial pressure)	ca. 10 mm <sup>3</sup> /rev.
Viscosity range	10,000 up to 1,000,000 mPas
Spindle	Steel
Housing	Steel
Size (W x H x D)	62.5 x 66 x 38.5 mm
Weight	0.115 kg
Input connection	Female Luer-lock
Output connection	Male Luer-lock

Order Description	Capacity	Article Number
Micro pump	ca. 10 mm <sup>3</sup> /rev.	0074929J

## Accessories for micro pumps

Order Description	Article Number
Pump housing micro pump	0074929M
90° arc knurled Luer-lock nut	0074929N
Screw conveyor, single start, 0.762 mm deep	0074929P
Luer-lock adapter micro pump	0074929Q
Knurled screw micro pump	0074929R
Retaining cap, bottom, micro pump	0074929S
Bearing, bottom, micro pump	0074929T
O-Ring micro pump	0074929U
Bearing, top, micro pump	0074929V
Retaining cap, top, micro pump	0074929W



# Eccentric Screw Pumps

DATRON's pumps for shear-sensitive low to medium viscosity media

The eccentric screw pump is used mainly for shear-sensitive, low to medium viscosity, filled (abrasive) and unfilled media.

This pump is designed as an adaptation to the DATRON iVD-E dispensing head.

Technical Data	Eccentric screw pump
Capacity	0.12 up to 60.0 ml/min
Viscosity range	1 up to 250,000 mPas
Stator/Rotor	Elastomer/stainless steel
Housing	Anodized Aluminium
Size eco-PEN 300/450 (L x Ø)	216 mm x Ø 33 mm
Size eco-PEN 600/700 (L x Ø)	274 mm x Ø 40 mm
Weight eco-PEN 300/450	0.41 kg
Weight eco-PEN 600/700	0.75 kg
Input connection eco-PEN 300/450	G1/8"
Input connection eco-PEN 600/700	G1/4"
Output connection	Male Luer-lock



Order Description	Capacity	Article Number
eco-PEN 300 Dispenser	0.12 to 1.48 ml/min	0074927R
eco-PEN 450 Dispenser	0.5 to 6.0 ml/min	0074927E
eco-PEN 600 Dispenser	1.4 to 16.0 ml/min	0074927L
eco-PEN 700 Dispenser	5.3 to 60.0 ml/min	0074927H

## Accessories for eccentric screw pumps

Order Description	Article Number
Control eco-PEN	0074927F
Dispensing unit eco-PEN700	0074927I
Stator complete for eco-PEN700, VISChem05, red	0074927J
Pump housing for eco-PEN600/700	0074927K
Coupling eco-PEN	0074927M
Connection cable eco-PEN from control to drive unit eco-PEN	0074927Q



Further accessories upon request.

## Adapters/Accessories



0700484



07009406



0074902

0074902B



07007415



07007483



07009407



07012950



07012951



07010355



07012956



07007437

Order Description	Article Number
Cartridge adapter for 310 ml EURO cartridge (Special thread 15.3x2.54 to Ø 6 mm)	07007484
Cartridge adapter for 310 ml EURO cartridge (Special thread 15.3x2.54 to Ø 8 mm)	07009406
O-Ring 8x2, FPM 80 Shore, brown, for M15x1.5 cartridge adapter	0074902
O-Ring 8x2, EPDM 80 Shore, violet, for M15x1.5 cartridge adapter	0074902B
Cartridge adapter M15x1.5 stainless steel VA	07007415
Cartridge adapter for 1000 ml M20x1.5 stainless steel VA	07007483
Cartridge adapter Dispenser (large pump) M15x1.5 to Ø 8 mm	07009407
Cartridge adapter, special version with O-ring, A drill 15 mm to Ø 6 mm	07012950
Cartridge adapter, version with special thread G1/2"x14 to Ø 6 mm	07012951
Cartridge adapter external thread G1/4" to Ø 6 mm	07010355
Cartridge adapter external thread G1/8" to Ø 8 mm (Semco on large pump)	07012956
Cartridge adapter for 30/55 ml cartridge (Luer-lock to Ø 6 mm)	07007437



07007430



07013972



0072705



07007409



07010354



07007438



07007439



07010356



0074940



0074966A



0074940C

Order Description	Article Number
Needle fixer 5x5	07007430
Needle fixer 6x6 for steel needle	07013972
Knurled screw M3 for needle fixer	0072705
Cartridge plunger for compressed air cylinder 310 ml Euro cartridge	07007409
Cartridge plunger D=35 mm for Semco cartridge	07010354
Cartridge plunger for 30 ml and 55 ml cartridges	07007438
Insert for COURTAULDS AEROSPACE 30 ml and 55 ml cartridges	07007439
Insert for Semco cartridge 230 ml	07010356
Closing caps for 310 ml Aluminium cartridge	0074940
Closing caps for 30/55 ml cartridge	0074966A
Closing caps for 310 ml EURO cartridge	0074940C

# Dispensing Needles



Order Description	Gauge	Colour	Article Number
Dispensing needle tapered with Luer-lock, ID=0.25/ED=0.79 mm	25	Red	0074930
Dispensing needle tapered with Luer-lock, ID=0.41/ED=0.81 mm	22	Blue	0074931
Dispensing needle tapered with Luer-lock, ID=0.58/ED=0.92 mm	20	Rose	0074932
Dispensing needle tapered with Luer-lock, ID=0.84/ED=1.25 mm	18	Green	0074933
Dispensing needle tapered with Luer-lock, ID=1.19/ED=1.63 mm	16	Grey	0074934
Dispensing needle tapered with Luer-lock, ID=1.6/ED=2.03 mm	14	Oliv	0074935



Order Description	Gauge	Colour	Article Number
Dispensing needle stainless steel tip with Luer-lock L=0.5" (12.7 mm), ID=0.41/ED=0.72 mm	22	Blue	0074931B
Dispensing needle stainless steel tip with Luer-lock L=1.0" (25.4 mm), ID=0.41/ED=0.72 mm	22	Blue	0074931C
Dispensing needle stainless steel tip with Luer-lock L=0.25" (6.35 mm), ID=0.61/ED=0.91 mm	20	Rose	0074932A
Dispensing needle stainless steel tip with Luer-lock L=0.5" (12.7 mm), ID=0.61/ED=0.91 mm	20	Rose	0074932B
Dispensing needle stainless steel tip with Luer-lock L=1.0" (25.4 mm), ID=0.61/ED=0.91 mm	20	Rose	0074932C
Dispensing needle stainless steel tip with Luer-lock L=0.25" (6.35 mm), ID=0.84/ED=1.27 mm	18	Green	0074933A
Dispensing needle stainless steel tip with Luer-lock L=0.5" (12.7 mm), ID=0.84/ED=1.27 mm	18	Green	0074933B
Dispensing needle stainless steel tip with Luer-lock L=1.0" (25.4 mm), ID=0.84/ED=1.27 mm	18	Green	0074933C
Dispensing needle stainless steel tip with Luer-lock L=1.5" (38.1 mm), ID=0.84/ED=1.27 mm	18	Green	0074933G
Dispensing needle stainless steel tip with Luer-lock L=0.5" (12.7 mm), ID=1.36/ED=1.65 mm	15	Amber	0074934B
Dispensing needle stainless steel tip with Luer-lock L=1.0" (25.4 mm), ID=1.36/ED=1.65 mm	15	Amber	0074934C
Dispensing needle stainless steel tip with Luer-lock L=1.5" (38.1 mm), ID=1.36/ED=1.65 mm	15	Amber	0074934G
Dispensing needle stainless steel tip with Luer-lock L=0.5" (12.7 mm), ID=1.54/ED=1.83 mm	14	Olive	0074935B
Dispensing needle stainless steel tip with Luer-lock L=1.0" (25.4 mm), ID=1.54/ED=1.83 mm	14	Olive	0074935C
Dispensing needle stainless steel tip with Luer-lock L=1.5" (38.1 mm), ID=1.54/ED=1.83 mm	14	Olive	0074935G

Order Description	Colour	Article Number
Dispensing needle tapered Aluminium with Luer-lock, ID=0.4/ED=0.8 mm	Alu	0074931E
Dispensing needle tapered Aluminium with Luer-lock, ID=0.6/ED=1.0 mm	Alu	0074932E
Dispensing needle tapered Aluminium with Luer-lock, ID=0.8/ED=1.4 mm	Alu	0074933E



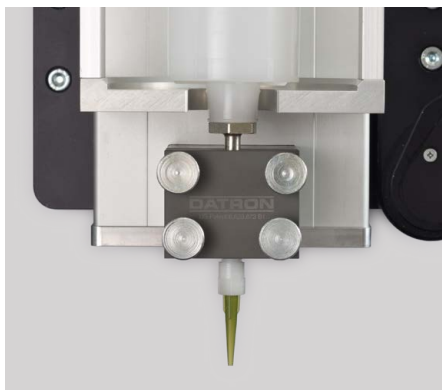
Order Description	Gauge	Article Number
Dispensing needle all-metal with Luer-lock, L=50mm, ID=2.4/ED=3.0 mm	11	0074937
Dispensing needle all-metal with Luer-lock, L=50mm, ID=2.0/ED=2.6 mm	13	0074937A
Dispensing needle all-metal with Luer-lock, L=50mm, ID=1.6/ED=2.1 mm	14	0074937B
Dispensing needle all-metal with Luer-lock, L=50mm, ID=1.3/ED=1.8 mm	15	0074937C
Dispensing needle all-metal with Luer-lock, L=50mm, ID=1.0/ED=1.4 mm	17	0074937D
Dispensing needle all-metal with Luer-lock, L=100mm, ID=1.6/ED=2.1 mm	14	0074937E
Dispensing needle all-metal with Luer-lock, L=100mm, ID=1.3/ED=1.8 mm	15	0074937F
Dispensing needle all-metal with Luer-lock, L=15mm, ID=2.0/ED=2.4 mm	13	0074937G
Dispensing needle all-metal with Luer-lock, L=15mm, ID=1.5/ED=2.0 mm	14	0074937H
Dispensing needle all-metal with Luer-lock, L=15mm, ID=1.4/ED=1.8 mm	15	0074937K
Dispensing needle all-metal with Luer-lock, L=15mm, ID=1.2/ED=1.6 mm	16	0074937L
Dispensing needle all-metal with Luer-lock, L=15mm, ID=1.0/ED=1.4 mm	17	0074937M
Dispensing needle all-metal with Luer-lock, L=15mm, ID=0.8/ED=1.2 mm	18	0074937N
Dispensing needle all-metal with Luer-lock, L=15mm, ID=0.6/ED=0.9 mm	20	0074937P
Dispensing needle all-metal with Luer-lock, L=15mm, ID=0.5/ED=0.8 mm	21	0074937Q
Dispensing needle all-metal with Luer-lock, L=15mm, ID=0.65/ED=1.0 mm	19	0074937R
Dispensing needle all-metal with Luer-lock, L=15mm, ID=2.5/ED=3.5 mm	10	0074938
Dispensing needle all-metal with Luer-lock, L=15mm, ID=3.0/ED=4.0 mm	8	0074938A



# Dispensing Heads

The appropriate dispensing head/dispensing pump for every material.

**Patented dispensing heads with gear pump systems and their integration into the path control system ensure volume-precise application, independent of dispensing speed and flow properties of the material.**

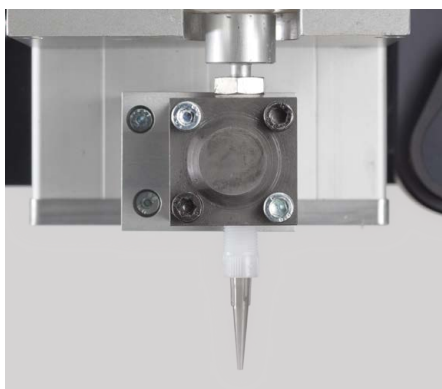


## DATRON iVD – Volumetric/Abrasive

Dispensing head with precision external gear pump for media of medium to high viscosity up to 1,000,000 mPas. Due to their patented design, these pumping systems are specially designed for filled and unfilled materials of high viscosity.

The dispensing head accepts cartridges with capacities of 10 ml, 30 ml or 55 ml and 310 ml euro-cartridges. Other cartridge systems, 20 l hobbocks and 200 litre drums can be connected optionally.

See pages 7 and 9.



## DATRON iVD – Fluid

Dispensing head with high-precision internal gear pump for dispensing low to high viscosity unfilled media from 1 to 1,000,000 mPas. This system also allows reproducible dispensing of extremely fluid materials.

The dispensing head accepts cartridges with capacities of 10 ml, 30 ml or 55 ml and 310 ml euro-cartridges. Other cartridge systems, 20 l hobbocks and 200 litre drums can be connected optionally.

See page 11.



## DATRON – iVD hot melts & reactive hot melts

Media with a processing temperature of up to 180° C/reactive hot melts can be dispensed precisely and reliably by means of a heated gear pump.

The special shaft seal with buffer fluid prevents the penetration of air moisture into the pumping chamber, thus avoiding an undesired reaction of the material inside the pump.

The material is fed via bag melting and barrel melting systems.

See page 13.

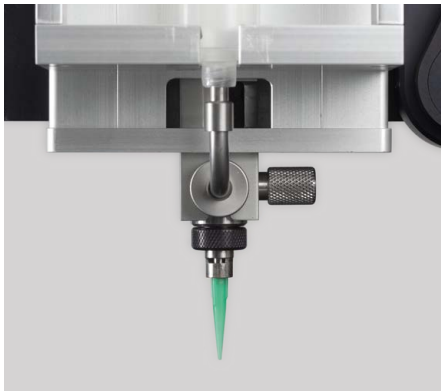


### DATRON iVD – Fluid Plus

Dispensing head with precision external gear pump for media of medium to high viscosity up to 1,000,000 mPas. Due to its powerful motor, larger material volumes can be processed quickly and accurately. These pump systems are designed specifically for unfilled, high-viscosity materials.

The dispensing head accepts 310 ml euro-cartridges. Other cartridge systems, 20 l hobbocks and 200 litre drums can be connected optionally.

See page 15.

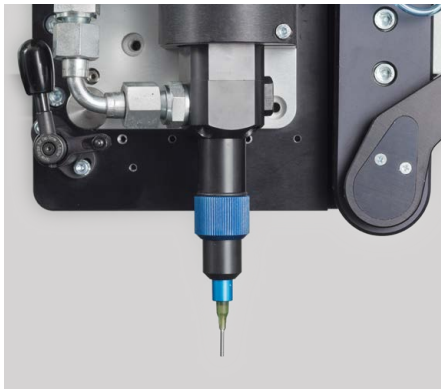


### DATRON iVD – Micro

Continuous piston pump for dispensing filled and unfilled as well as shear-sensitive media. The micro-pump is used for dispensing the smallest quantities.

The dispensing head accepts cartridges with capacities of 10 ml, 30 ml or 55 ml.

See page 17.



### DATRON iVD – E (eccentric screw pump)

To round off/extend the range of pumps, shear-sensitive media can also be dispensed in a consistently high quality using eccentric screw pumps. The rotating eccentric screw (rotor) and the fixed stator serve as pumping elements in these self-priming eccentric screw pumps.

This pump is suitable for pumping or dispensing low viscosity to high viscosity, paste-like filled and unfilled media and in particular, for dispensing of shear-sensitive media.

See page 18.

**All dispensing heads achieve a dispensing accuracy of  $\pm 4\%$ , depending on the process and the material.**

**Further dispensing heads upon request.**

# DATRON Systems Overview

Every dispensing application is specific and we offer the perfect solution for your particular needs. Whether stand-alone or in-line, whether cartridge or drum, whether small prototyping or serial production in large lot sizes, our experts will be happy to advise you and help you to find the best and most efficient solution for your application.

## Ideal for small series

DATRON **PRO400**



## Cost-effective in the smallest place

DATRON **PRO500**



## Large-size dispensing

DATRON **PRXL**





**Semiautomatic**

DATRON **PRO500-RT**



**Inline capable and compact**

DATRON **IR0300**



**Inline capable for large formats**

DATRON **IPR0500**



# DATRON

## About Us

### DATRON AG

#### Dedicated Staff and Innovative Product

We develop, produce and distribute innovative CNC milling machines for the machining of future-oriented materials such as aluminium and composite materials, dental milling machines for the efficient processing of all common denture materials in dental laboratories and high-performance dispensing machines for industrial sealing and bonding applications.

Strong focus on customer value, a very good price-performance ratio, low power consumption and flexible adaptation through modular lightweight construction are a common feature of all our products. Standard solutions can be adapted to a very large extent to individual customer requirements.

Production and automation processes can be improved significantly due to components matched already during their development and the resulting superior technological features of DATRON's products. This not only leads to higher production quality, but also to lower manufacturing costs!

### DATRON's core products are:

#### CNC milling machines for high speed milling and 3D Engraving

Milling, drilling and engraving of aluminium, stainless steel, plastics and composites. High production speeds and results are achieved with speeds of up to 60,000 rpm.

We are the market leaders in Germany in the field of front panel and housing machining.

#### Dental CAD/CAM milling/grinding machines

The ultra-compact 5-axis milling/grinding machines are suitable for machining all common dental materials. Equipped with 8-fold automation and 12-fold tool changer, DATRON's machines are the best choice for industrial dental serial production with high reliability, speed and precision.

#### VDispenser® dispensing machines for precise and fast bonding and sealing

Our volume-precise dispensing technology is available and patented worldwide. Strong cost advantages result in mass production due to the high dispensing quality and speed of our systems.

#### Tools for high-speed machining

Tool-quality determines machining results in high-speed machining. Due to our technical and advisory expertise, our customers' production is more cost-effective than their competitors'.

#### Technical Customer Support

Training, service hotline, maintenance, accessories and sale of spare parts: professional service and expert advice in all fields lead to high customer satisfaction, one of our key objectives.







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**+49 (0) 6151-1419-0**



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**dispensen@datron.de**



or Online:  
**www.dispensing.datron.com**

