power of technology

GLUING AND DOSING TECHNOLOGY

The ATN Hölzel GmbH

ATN – technologies for the application process

Preparation / Cleaning

Activate

Material transfer

Material application

Controller

Cleaning

ATN is one of today's leading providers of automation, bonding and dosing technology. Whether as single components or integrated in a complete automatic cell, we can supply the ideal solution for your material metering and dispensing needs. Many years' experience, ongoing development and a close cooperation with our customers form the basis for cost-efficient quality products and systems.

ATN's dispensing and metering technology allows the delivery of nearly all conveying materials. A range of product types are available for various fluids, delivery rates and pressure levels.

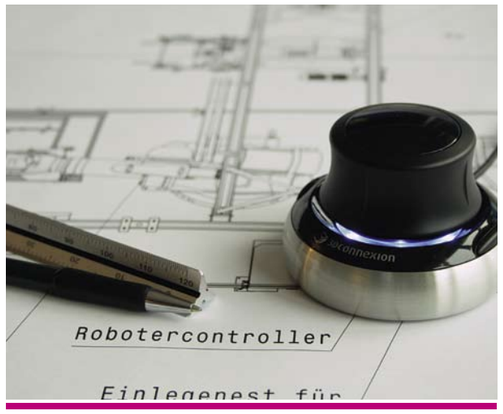
The fields of application of ATN's tried-and-tested dosing and pumping equipment are many and varied. The focus lies on machine and vehicle manufacturing and on renewable energy (solar and wind). Other applications include the aerospace, marine and offshore, electronics, wood, furniture and components industry as well as spray application, coating and lubrication technology. With flexibly combinable components, ATN's metering, dispensing and pumping systems are also ideal for the entire field of materials, including:

- PVC and other sealing materials
- Greases and lubricants
- Viscous coating materials
- Sealants
- Silicones, urethanes, butyl
- Epoxy resins and acrylates
- Potting materials
- Anaerobic adhesives
- Soldering pastes
- Paints, varnishes, colouring pastes
- Additives
- Suspensions and emulsions

The ATN Hölzel GmbH

ATN – Expertise from a single source

Project management



Engineering

Programming

Production

Service & development

Contents

TWIN COLUMN RAM PRESSES ZRP 60, ZRP 200

The two column ram presses provide delivery of adhesives, sealants and potting materials from drums with 20 to 200 litres. The system components are combined according to customer specifications and according to the properties of the delivered material.

General technical data

- For delivery of low- to high-viscosity materials
- Pneumatic connection: 5 bars, filtered, dried, oil-free, through spiral hose and plug connector
- Follower plate
  - Diameter: 279 – 355 mm (ZRP 60); 570 mm (ZRP 200)
  - Residual quantity-optimised design for low- and medium-viscosity materials
  - Conical design with 15° for high-viscosity materials, Teflon-coated
  - Floating wiper ring for compensating barrel tolerances
  - Heating (optional, see also description of heating)
- Delivery volume, scoop piston under pump
  - scoop piston under pump
    - SUP 80: 80 cm³ per double stroke / 4.8 l/min (at 60 double strokes/min)
    - SUP 150: 150 cm³ per double stroke / 9.0 l/min (at 60 double strokes/min)
    - SUP 260: 260 cm³ per double stroke / 15.6 l/min (at 60 double stroke/min)
    - Pressure ratio: 11:1 to 72:1
    - Max. operating pressure: 360 bar
    - Temperature range: 0 – 80 °C
    - Material viskosity: low- up to high-viscosity
  - Transmission ratio, medium pump – air motors

	Air motor			
Medium pump	LMR 125	LMR 160	LMR 250	LMR 320
SUP 80	35:1	57:1	-	-
SUP 150	17:1	28:1	68:1	-
SUP 260	11:1	18:1	44:1	72:1

The pump and air motor are individually combined to suit the conveyed material.

- Delivery volume, eccentric screw pump
  - Eccentric screw pump
    - ESP 80: max. 80 ml/min
    - ESP 400: max. 400 ml/min
    - ESP 3000: max. 3000 ml/min
    - Feed pressure: 0 – 20 bar, simple compression stroke; 0 – 40 bar, double compression stroke
    - Temperature range: 0 – 80 °C
    - Material viskosity: low- to medium-viscosity

Options for two-pillar ram press

- Heating system
- Signal tower “Active”, “Ready”, “Empty”
- Pump operator panel IFC 6 with touch screen
- Can be combined to double barrel pump
- Roller tracks for easy barrel change (ZRP 200 only)

ZRP 60

ZRP 60	packing size 20 – 60 litres
Dimensions (l × w × h)	660 × 400 × 1550 mm
Weight	max. 160 kg
Ram pressure	0.75 t pneumatic pressure

ZRP 200

ZRP 200	packing size up to 200 litres
Dimensions (l × w × h)	800 × 1000 × 1960 mm
Weight	max. 510 kg
Ram pressure	0.75 t pneumatic pressure 3.3 t at transmission ratio 5:1 9.8 t at transmission ratio 15.5:1 (high-viscosity materials)

HEATING SYSTEMS

Some materials need to be held at a constant temperature during delivery. This ensures consistent material quality regardless of ambient conditions and guarantees a constant quality of material application. ATN supplies a range of heating components for this purpose.

Heating hoses

Hose types	Standard protective braid Corrugated plastic tubing
Supply voltage	230 V
Rated power	150 – 300 W/m
Temperature, max.	200 °C
Diameter	13 mm and 24 mm; other diameters scoop piston under pump
Length	0.2 – 10.0 m
Pressure load	max. 450 bar
Field of application	Material delivery from delivery unit to application unit

Hoses and required fittings are selected to suit the usage site and material requirements.

Heater sleeve, dosing unit

Supply voltage	230 V
Rated power	150 – 300 W
Temperature, max.	120 °C
Field of application	Heating electrical volumetric dosing unit
Miscellaneous	Maintenance-free, protection class IP20

Heater sleeve for eccentric screw pump

Supply voltage	230 V
Rated power	150 – 300 W
Temperature, max.	120 °C
Field of application	Heating eccentric screw pumps
Miscellaneous	Maintenance-free, protection class IP20

Heater sleeve for ladle piston pump

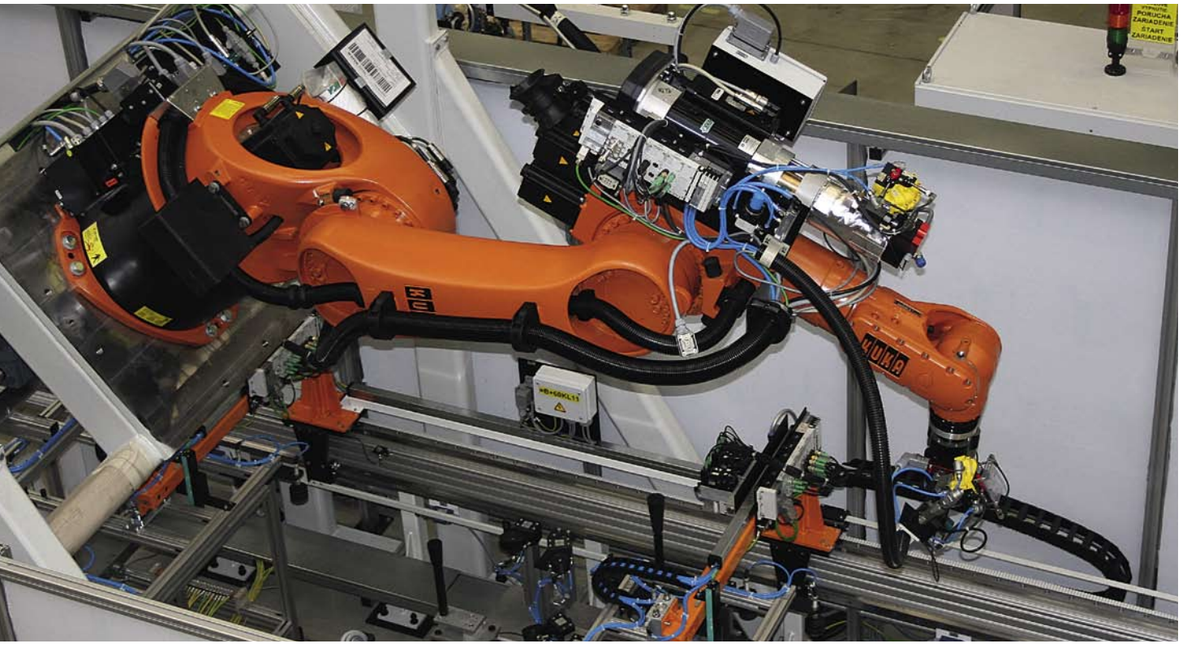
Supply voltage	230 V
Rated power	150 – 300 W
Temperature, max.	120 °C
Field of application	Heating ladle piston pumps
Miscellaneous	Maintenance-free, protection class IP20

Heated barrel pump follower plate

Supply voltage	400 V
Rated power	3000 W / 6000 W for ZRP 200, 1000 W for ZRP 60
Temperature, max.	200 °C
Field of application	Heating barrel pump follower plates
Miscellaneous	Maintenance-free, protection class IP20

Heated one-component application heads

Supply voltage	230 V
Rated power	200 W
Max. temperature	100 °C
Field of application	Heating application heads
Miscellaneous	Maintenance-free, protection class IP20



ELECTRICAL VOLUME DOSING UNIT EVD

Features and advantages

- Suitable for the controlled application of low- and high-viscosity materials
- Independent of viscosity variation
- Precise dosing with a repeat accuracy above 99%
- High lifetime with low maintenance costs
- High speed reaction
- Infinitely adjustment of material quantity via speed dependent regulation of the master system (e.g. robot), with the possibility of offset or tolerance parameters adjustable via the main control unit
- Detailed visualisation with control function (output of material, fill level, temperature, pressure, torques, maintenance counter etc.)
- Filled materials are also processible without any problems
- Programmable purge and maintenance intervals
- Simple assembly and disassembly
- Easy to maintain due to separate material and drive chamber
- Complete heated system (option)

Processible product characteristics

- Low- up to high-viscosity materials
- Highly filled
- Abrasive
- Shear sensitive
- Agressive

Technical data dosing unit EVD 10

Max. pressure	300 bar
Volume	9,8 cm³
Max. volume flow	1,09 cm³/s at 4000 min -1
Resolution	0,016 cm³ per motor revolution
Pressure detection	0–400 bar
Motor	0,25 kW / 0,65 Nm / 4000 min -1
Dimensions (l × w × h)	650 mm x 220 mm x 150 mm
Weight	approx. 18,5 kg

Technical data dosing unit EVD 100

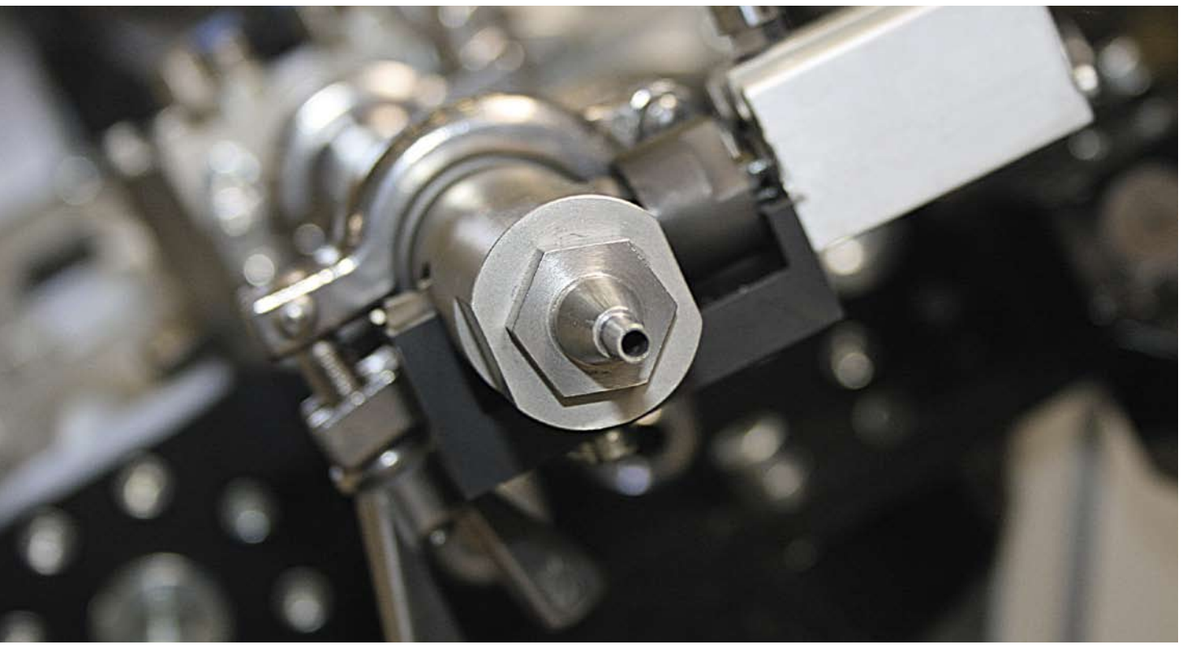
Max. pressure	300 bar
Volume	97,6 cm³
Max. volume flow	17,8 cm³/s at 4000 min -1
Resolution	0,26 cm³ per motor revolution
Pressure detection	0–400 bar
Motor	0,4 kW / 0,65 Nm / 4000 min -1
Dimensions (l × w × h)	620 mm x 220 mm x 180 mm
Weight	approx. 21,5 kg

Technical data dosing unit EVD 550

Max. pressure	300 bar
Volume	517 cm³
Max. volume flow	26,0 cm³/s at 3000 min -1
Resolution	0,52 cm³ per motor revolution
Pressure detection	0–400 bar
Motor	1,1 kW / 2,8 Nm / 3000 min -1
Dimensions (l × w × h)	800 mm x 260 mm x 180 mm
Weight	approx. 35 kg

Technical data dosing unit EVD 850

Max. pressure	300 bar
Volume	850 cm³
Max. volume flow	77,0 cm³/s at 3000 min -1
Resolution	1,54 cm³ per motor revolution
Pressure detection	0–400 bar
Motor	2,8 kW / 7,5 Nm
Dimensions (l × w × h)	975 mm x 405 mm x 206 mm
Weight	approx. 70,0 kg



DISPENSER ESP

Features and advantages

- Endless dosing – no filling of the piston necessary
- Precise dosing with a repeat accuracy above 99%
- Volumetric dispensing
- Gentle and pulsation free dispensing
- Advanced design (free of dead space)
- Point and bead dispensing without material accumulations when starting and stopping
- No dripping or stringing due to controllable retraction
- Simple assembly and disassembly
- High lifetime with low maintenance costs
- Valveless
- Independent of viscosity variation
- Variable flow directions (use for conveying and dosing, eccentric screw principle)
- Stainless steel design
- Controlled using simple digital interface, field bus or using dosing control with comfortable visualisation
- Heating (option)

Processible material characteristics

- Low- to medium-viscosity
- Highly filled
- Abrasive
- Shear sensitive
- Agressive

General technical data

Inlet pressure	0 – 20 bar
Dosing pressure max.	0 – 40 bar
Temperature range	0 – 80 °C
Speed max.	200 U/min-1

Technical data

DISPENSER ESP 80		DISPENSER ESP 400		DISPENSER ESP 3000	
Dosing volume	0,4 ml/min-1	Dosing volume	2,0 ml/min-1	Dosing volume	14,8 ml/min-1
Flow rate	2,5 – 80 ml/min-1	Flow rate	12 – 400 ml/min-1	Flow rate	90 – 3000 ml/min-1
Dosing quantity min.	0,02 ml	Dosing quantity min.	0,1 ml	Dosing quantity min.	0,75 ml

VAPOUR SEPARATOR

General information

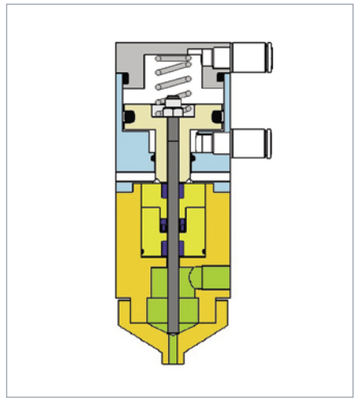
- For problem-free precision delivery of material to the application unit without entrapped air
- No process interruption during barrel change
- Single buffer reservoir for barrel change
- The vapour separator is positioned between the fluid feed system and the application unit
- Automatic an manual filling from 20 l up to 200 l container
- Built-in fill level indicator
- The closed container is always under vacuum

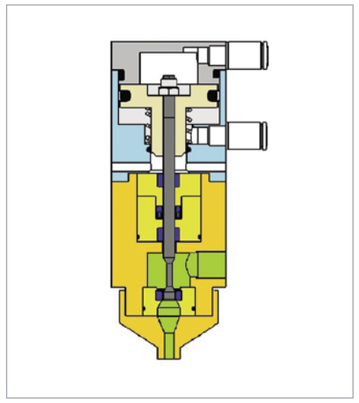
Technical data

Dimensions (l × w × h)	400 × 400 × 1200 mm
Weight	approx. 40 kg
Capacity	28 l
Feed pumps	ESP 80, ESP 400, ESP 3000

VALVE SERIES

For the dosing of low to high viscosity materials the pneumatically controlled high pressure valves series VN and VR are used. For an exact material cutoff after the dosing process the valves of series VR are equipped with a retraction effect. The compact and robust construction of both series enables the using under difficult conditions.





Technical data

Valve types	Needle valve series VN 3, VN 6, VN 8, VN 10, VN 12 Retraction valve series VR 3, VR 6, VR 8, VR 10, VR 12
Dimensions	125 x 30 x 30 mm (VN 3/ VR 3) 194 x 70 x 70 mm (VN 12/ VR 12)
Weight	0,4 kg (VN 3/VR 3) – 3,5 kg (VN 12/VR 12)
Material inlet	M7 – G½“
Material outlet	M7 – G½“ or nozzle (different diameters)
Compressed air connection	5 bar
Material pressure	max. 300 bar
Media-carrying parts	Stainless steel
Pneumatic cylinder	Aluminium
Processable viscosities	low up to high viscosity

ONE-COMPONENT APPLICATION HEAD – ROBOT

General information

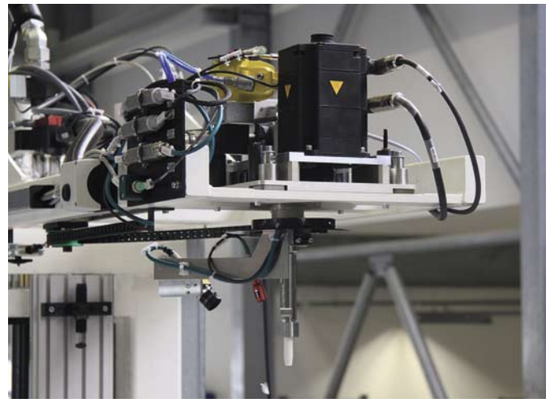
- For one-component applications with profile bead
- Fitted to robot’s sixth axis
- Easy replacement of Teflon nozzle
- Spring mounted height adjustment (pneumatically)

Technical data

- High-pressure application head with rotary transfer joint (eliminates tension on adhesive hoses)
- Transmission ratio 1:2 for fast profiled bead application in radii
- Spring mounted height regulation (pneumatically) with fitted nozzle (avoids damage to windows, ceramic serigraph, etc.)
- Teflon nozzle with quick-change system
- Dimensions (l × w × h) 180 × 150 × 190 mm
- Weight about 10 kg

Options

- Heated material flow
- Heated nozzle extension
- Crash protection system against damaging application of forces on the robot’s last axis
- Electropneumatic shutoff device
- Monitoring sensors
- Continuously variable shut-off force



ONE-COMPONENT APPLICATION HEAD – EXTERNAL UNIT (application tower)

General information

- For one-component applications with profile bead
- Fitted as external unit (application tower)
- Easy replacement of Teflon nozzle
- Sprung height adjustment

Technical data

- High-pressure application head with rotary transfer joint (eliminates tension on adhesive hoses)
- Transmission ratio 5:1 for fast profiled bead application in radii
- Sprung pressure regulation with fitted nozzle (avoids damage to windows, ceramic pressure, etc.)
- Teflon nozzle with quick-change system
- Dimensions (l × w × h) 200 × 300 × 300 mm
- Weight approx. 30 kg

Options

- Heated material flow
- Heated nozzle extension

TWO-COMPONENT APPLICATION SYSTEM EVD

General information

- For two-component applications
- Fitted to sixth robot axis or as fixed unit
- Metering with dosing unit EVD 10, EVD 100, EVD 550, EVD 850
- Precise dosing of components A and B at each application
- Mixing ratio continuously adjustable
- A static mixer homogeneously mixes components immediately before the application nozzle
- Reliable mixing of components by cost-effective static mixer inserts
- Easy replacement of static mixer inserts
- Short fluid flow route between dosing unit and two-component valve
- Fast response to changes in application parameters

Technical data

- Electrical dosing systems actuated by drive controller
- Weight and dimensions depend on fitted dosing unit combination; please enquire
- Different dosing unit models can be combined to obtain the correct mixing ratio
- Maximum application quantity depends on dosing unit combination and mixing ratio

TWO-COMPONENT APPLICATION SYSTEM ESP

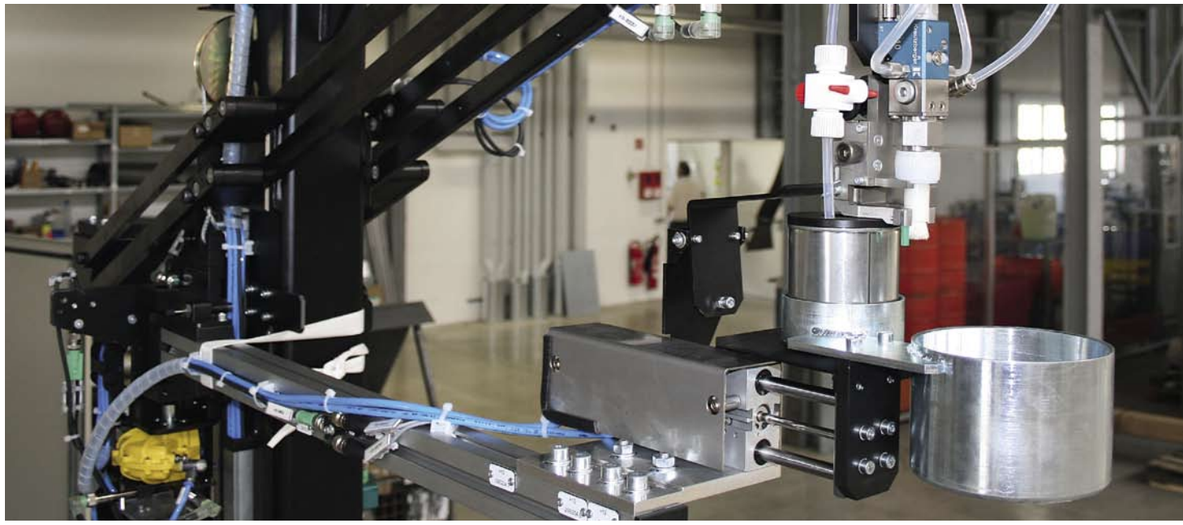
General information

- For two-component applications
- Fitted to sixth robot axis or as fixed unit
- Dosing with ATN dispenser ESP 80, ESP 400 or ESP 3000
- Precise dosing of components A and B at each application
- Mixing ratio continuously adjustable
- A static mixer homogeneously mixes components immediately before the application nozzle
- Reliable mixing of components by cost-effective static mixer
- Easy replacement of static mixer inserts
- Short fluid delivery route between dispenser and static mixer
- Fast response to changes in application parameters
- No dripping through controllable material pullback

Technical data

- Electrical dispenser systems actuated by drive controller
- Weight and dimensions depend on fitted dispenser combination
- Different dispenser models can be combined to obtain the correct mixing ratio

The using of 2K application systems depend on the conditions of the dispensing materials and the required conveying parameters. This includes the material viscosity, realizing conveying pressures, volume stream and the conveying quantity. For detailed characteristics and application areas of dosing unit EVD and dispenser ESP see pages 6–9.



PRIMER APPLICATION HEAD

General information

- For primer application
- Material feed through pressure vessel
- Compensating unit for component tolerances (optional)
- Spray, brush or felt application through spray unit, diaphragm valve or dispenser
- Fitted to sixth robot axis or as external unit

Technical data

Dimensions (l × w × h)	250 × 200 × 450 mm
Weight	approx. 9 kg

CLEANING HEAD

General information

- For cleaning components before primer application
- Material feed through pressure vessel
- Spray application with spray unit
- Felt follower for additional cleaning
- Automatic severing of used cleaning felt and fitting of a new cleaning felt
- Compensating unit for component tolerances (optional)
- Fitted to sixth robot axis or as external unit

Technical data

Dimensions (l × w × h)	520 × 175 × 750 mm
Weight	approx. 12 kg

APPLICATION TOWER PRIMING

General information
- For adhesion promoter (primer) application
- Material feed through pressure vessel
- Compensating unit for component tolerances (optional)
- Spray, brush or felt application through spray unit, diaphragm valve or dispenser
- Flushing and cleaning unit for regular cleaning
- Application unit can be pivoted for maintenance work

Technical data

Dimensions (l × w × h)	1450 × 600 × 3000 mm
Pneumatic connection	5 bars, filtered, dried, oil-free, through spiral hose and plug connector
Supply voltage	24 V

Options
- Primer application tower can be expanded to two primer heads (different base frame)
- Height adjustment of application unit to compensate for component tolerances
- Combination of primer and cleaning head

PROFILE BEAD APPLICATION TOWER

General information
- Material dosing through electrical volumetric dosing unit EVD
- Material application with one-component application head or two-component application system

Technical data

Dimensions (l × w × h)	1600 × 640 × 3100 mm
Pneumatic connection	5 bar, filtered, dried

Options
- Swivel mounted application head
- Automatically traversing nozzle cleaning unit (pneumatic cleaning or fleece cleaning system)
- Height adjustment of application unit to compensate for component tolerances
- Adhesive bead monitoring

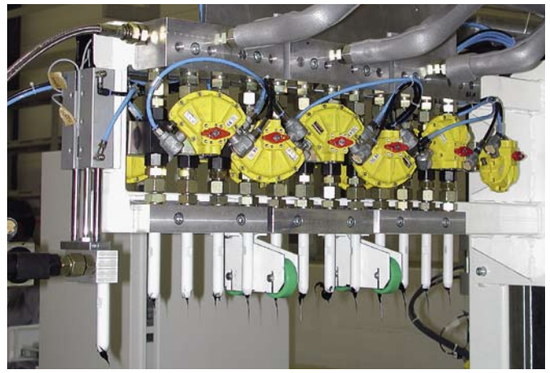
MULTI-NOZZLE APPLICATION TOWER

(for example gluing of roof reinforcement and insulation board)

General information
- Material dosing through on to three electrical volumetric dosing units EVD
- Material application through up to 3 delivery blocks with 4 nozzles each
- Each nozzle can be activated and shut off individually
- Drip pan under nozzles to collect flushed material

Technical data

Dimensions (l × w × h)	1450 × 600 × 3000 mm
Pneumatic connection	5 bar, filtered, dried



Application towers as external unit are the alternative for placing dispensing units for primers, adhesives, sealants and fillers. For application, the robot moves the workpieces under a fixed dispensing nozzle to obtain the required material track.

PACKING TAPE NOZZLE CLEANING UNIT

General information
- Mounted on base frame
- Packing tape used as cleaning material
- Automatic separation of used packing tape
- Controlled through external PLC

Technical data

Compressed air port	5 bars
Dimensions (l × w × h)	1311 × 405 × 1263 mm

Options
- Packing tape nozzle cleaning unit and flushing can be combined at one workbench

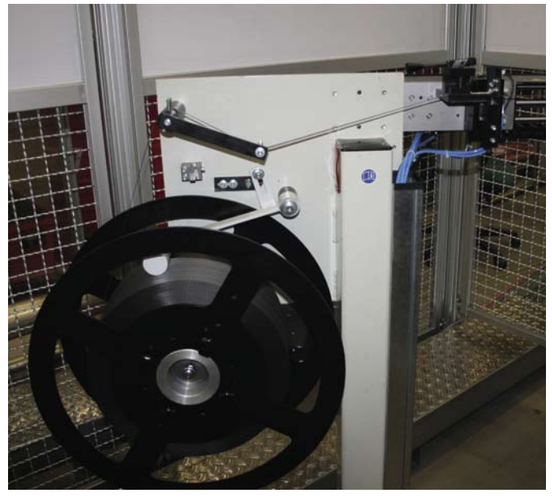
PNEUMATIC NOZZLE CLEANING UNIT

General information
- Made from stainless steel
- Six jet nozzles
- Three compressed air reservoirs
- Fast-acting ventilation valves
- Waste collection in standard waste bag in the enclosure
- Nearly noiseless cleaning
- Very cost-effective cleaning

Technical data

Compressed air port	5 bar
Dimensions (l × w × h)	1200 × 400 × 400 mm
Weight	approx. 65 kg

Options
- Stationary or movable installation to application tower
- Pneumatic nozzle cleaning unit and flushing can be combined at one workbench
- Quick-replacement plate



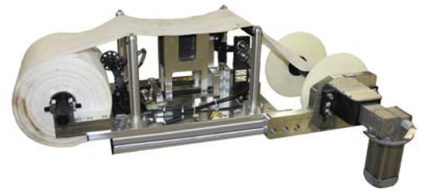
FLEECE NOZZLE CLEANING UNIT

General information
- Mounted on base frame
- Paper or fleece is used as cleaning material
- Roller thickness and width to customer specification
- Automatic cleaning material detection (reserve, intact paper band)
- Easy-to-fit roller

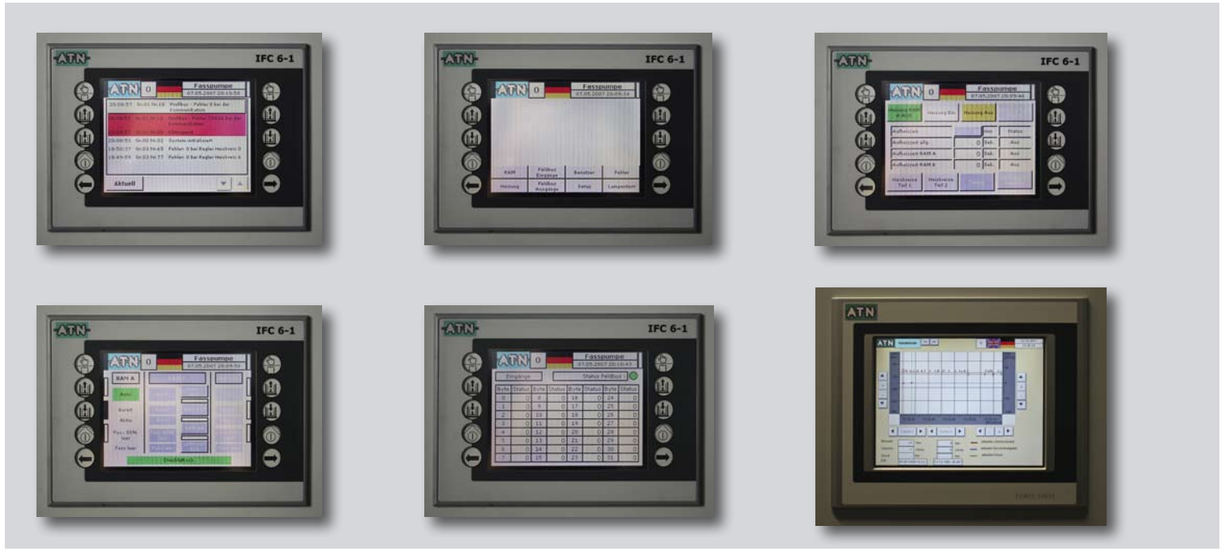
Technical data

Supply voltage	24 V DC
Dimensions (l × w × h)	890 × 1250 × 850 mm

Options
- Fleece nozzle cleaning unit and flushing can be combined at one workbench
- Stationary or movable installation to application tower
- Fitted to gliding system between flushing unit and fleece nozzle cleaning unit with fixed application point
- Support bracket for collecting container



A constant high-quality adhesive bead is ensured by ATN's range of nozzle cleaning units.



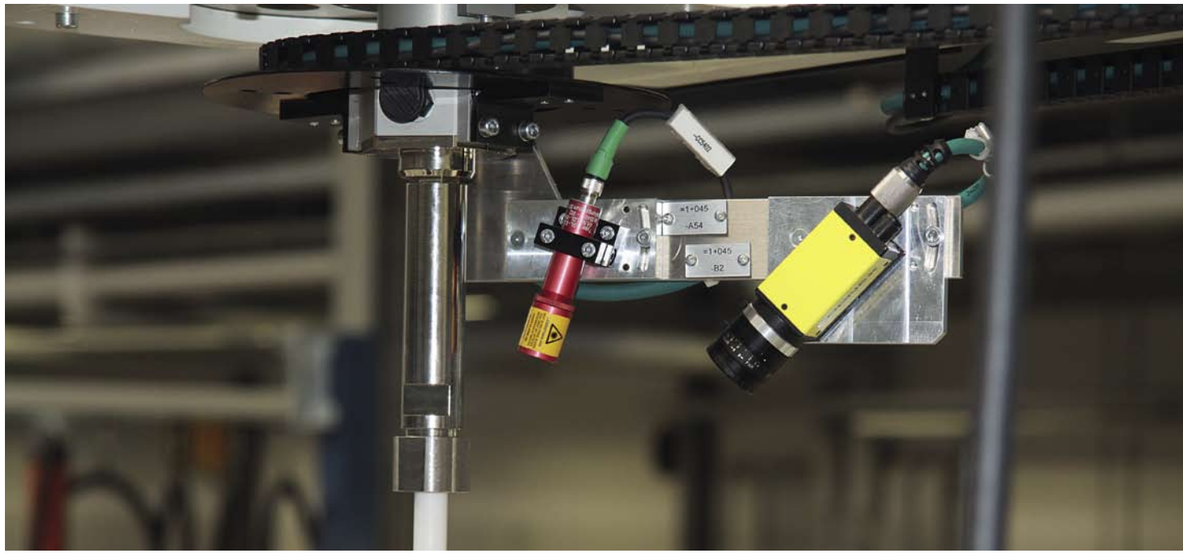
ATN CONTROLLER IFC

IFC 6 For controlling barrel pumps and dispensers
IFC 10 For controlling electrical volumetric dosing systems

General information to IFC 6 and IFC 10

- Simple operation through touch-screen operator panel
- LCD colour display
- Resolution 320 × 240
- User-adjustable for all component sizes
- All important application parameters are adjustable (e.g. flow rate, supply pressure, temperature)
- Management of several components
- Comprehensive diagnostics possibilities
- Up to three ram presses can be connected
- Interfaces: PROFIBUS, Profinet, Ethernet/IP, CANopen (for other interface please enquire)
- Supply voltage 24 V

ATN's controller IFC can be used to control all components of the fluid feed and dispensing system (barrel pumps, dosing unit, dispenser). Two models are available.



ADHESIVE BEAD MONITOR OPTOPROFIL

General information

The adhesive bead monitor monitors the quality of the applied adhesive bead using a light-section triangulation procedure.

Scope of measurement

- Measurement of adhesive bead height at the bead's highest point vertically above the substrate

Requirements for measured object (adhesive bead)

- Adhesive bead with triangular cross-section with / without rounded apex, or trapezoidal bead
- Clean bead shape through intact, clean application nozzles

Requirements for substrate (window, cockpit)

- Level and free from disturbing contours
- No disturbing contours within a distance of 10 mm to one side of the adhesive bead
- On changes of direction of less than 40° no disturbing contours within at least 10 mm on the side facing away from the vertex

Requirements for nozzle, nozzle alignment and nozzle rotation

- Nozzle material: Teflon
- If nozzle stock is short, nozzle made from non-reflecting material

Technical data

Installation	On robot or an external axis (ATN application tower)
Dimensions (l × w × h)	230 × 120 × 50 mm
Weight	500 g
Sampling frequency	60 fps (frames/s) at a robot speed of 200 mm/s (equates to one measurement every 5 mm)
Laser line	5 mm behind nozzle exit
Directional changes	Max. 20° over 50 mm before a curve
Alignment deviation	Max. 10° from vertical
Measurement deviation	Where required conditions are fulfilled ±1 mm
Electrical connection	24 V
Laser	Laser class 2M
Camera	Monochrome recording

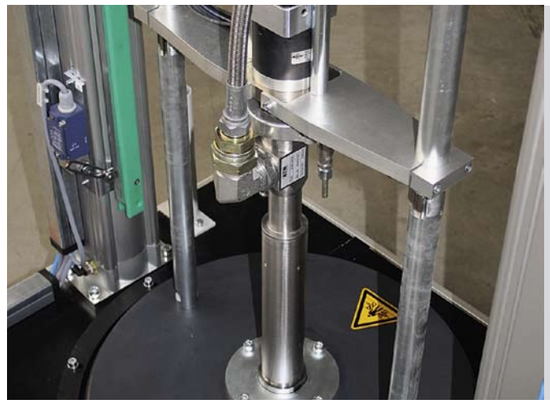
OPTOPROFIL VERSIONS

OPTOPROFIL 210

- Integration in an existing plant control system
- Results displayed on existing HMI panel

OPTOPROFIL 220

- Stand-alone adhesive bead quality monitor
- Integrated SQL DB for recording measurement results
- Results displayed with OPTOPROFIL VIEW
- Supplied with PC cabinet or HMI touch panel as required



1K APPLICATION STATION ESP MH

General information

- 1 component application system for manual application of 1K adhesives and sealants
- Mobile system
- Useable for barrels from 20 l up to 200 l
- For low to medium viscosity adhesives and sealants
- Volume flow adjustable via controller
- Manual application gun
- Balancer to relieve the weight of the hose and gun

Options

- Dosing output pumps can be composed variably as required
- Modification kit for ZRP 200, can be modified for Hobock barrels
- With automatic dosing head

Technical data

Dimensions (l × w × h)	1810 x 1000 x 2600 mm
Weight	450 kg
Electrical connection	230 VAC (with CEE plug), 400 V
Pneumatic connection	6 bar, filtered, dried, not oiled, through a spiral hose and connector
Chassis	4 rollers, 2 rollers braked and steerable
Pumps	Dual column RAM press ZRP 60 or Dual column RAM press ZRP 200
Output	ESP 80, ESP 400, ESP 3000
Application gun	1K manual application gun
Output flow	2.5 – 3000 ml/min
Temperature range	up to 80 °C

2K APPLICATION STATION ESP MH

General information

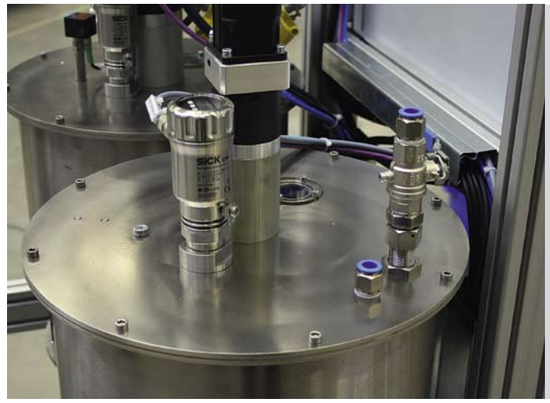
- 2 component application system for manual application of 2K adhesives and sealants
- Mobile system
- Useable for barrels from 20 l up to 200 l
- For low viscosity up to medium viscosity adhesives and sealants
- 2 volume flows, switchable
- Calibration, control and status monitoring via Touchscreen control panel
- Manual application gun for all common static mixer
- Balancer for weight unloading of hoses and pistol

Options

- Dosing conveying pumps can be variable assembled according to your requirements
- Conversion set for ZRP 200 to hobock barrels
- Upgradable with automatic dosing head

Technical data

Dimensions (l × w × h)	1810 x 1000 x 2600 mm
Weight	450 kg
Electrical connection	230 VAC (with CEE plug)
Pneumatic connection	6 bar, filtered, dried, unoiled, via spiral hose and plug connection
Carriage	4 rollers, 2 rollers braked and guidable
Pumps	Twin-column ram press ZRP 60, Twin-column ram press ZRP 200
Conveying	ESP 80, ESP 400, ESP 3000
Application pistol	2K manual application gun with pneumatic retraction function
Mixing ratio	from 1:1 up to 100:3
Flow rate	2,5 – 3000 ml/min
Temperature range	up to 80 °C



2K APPLICATION STATION ESP MEG MA

General information

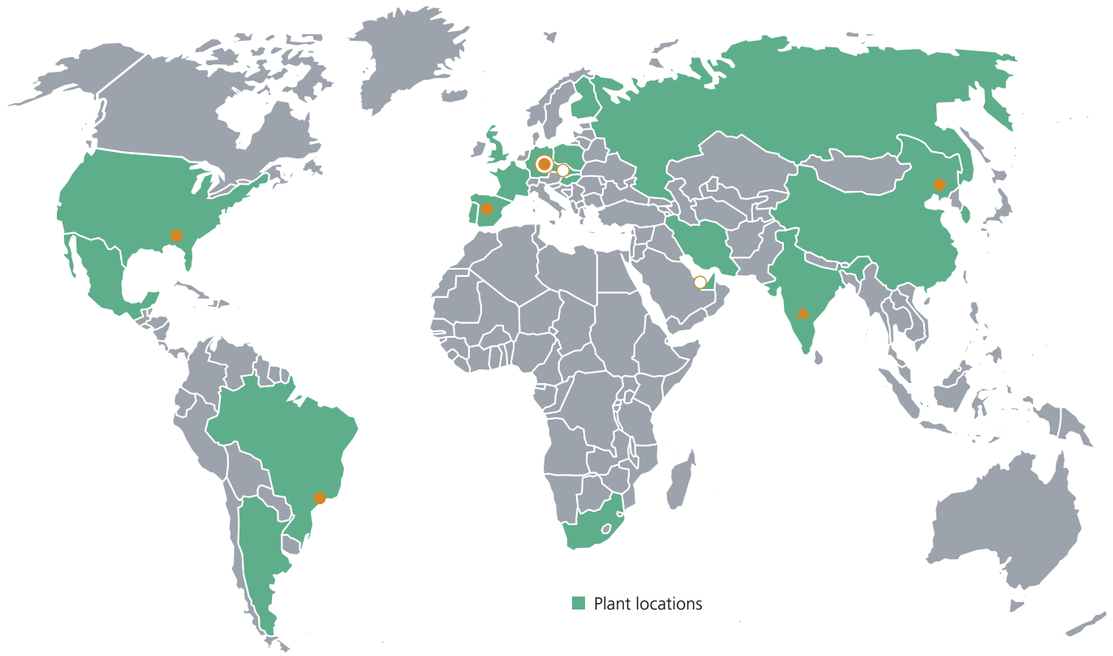
- 2 component application system for automatic application and potting of low viscosity 2K adhesives and sealants
- Mobile system
- Useable for barrels from 20 l up to 200 l
- Programmable up to eight different data sets
- Operation on touchscreen
- Automatic degassing of the components
- Application unit with two dispensers for exact dosing of the components
- Mixing of components is based on merchantable static mixer

Technical data

Dimensions (l × w × h)	1600 x 800 x 2300 mm
Weight	270 kg
Electrical connection	400 VAC (with CEE plug)
Pneumatic connection	5 bar, filtered, dried, unoiled, via spiral hose and plug connection
Carriage	4 rollers, 2 rollers braked and guidable
Dosing and conveying pumps	ESP 80, ESP 400, ESP 3000
Pump component A	double-membrane pump
Mixing ratio	from 1:1 up to 100:3
Flow rate	2,5 – 3000 ml/min
Temperature range	up to 80 °C

Options

- Dosing conveying pumps can be variable assembled according to your requirements
- Programmable circulation of material
- Level sensor



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