centron

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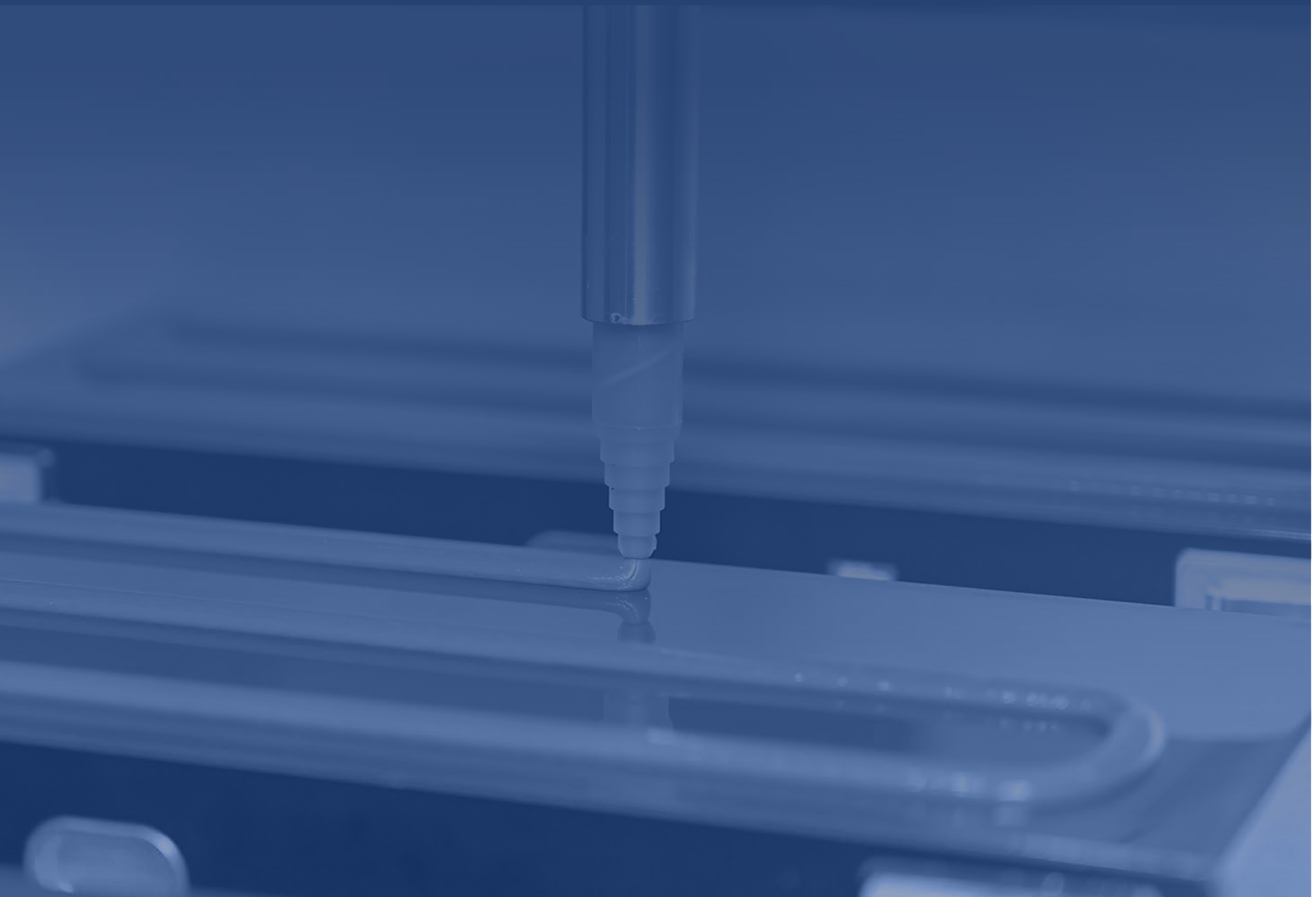
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Centron®

ADHESIVE DISPENSING AND METERING SYSTEM

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ABOUT US

Technology Leadership

Innovation-driven

Value co-creation

Centron®

Global leading manufacturer

CENTRON® is a high-tech enterprise integrating independent R&D, product design, production, sales and service. We are committed to providing cutting-edge, reliable and precise products and system solutions of adhesive dispensing, dosing, potting and trickling impregnation in EV battery, automotive, electric drive and control, automotive parts, energy storage battery, photovoltaic, transportation, aerospace, and 3C electronics, etc.

15+ years
Industry experience

2000+ sets
Annual production capacity

100+
Trial for customers

Development History

2006
Developed adhesive dispensing products for automotive air and oil filter;
Developed adhesive dispensing and potting products for photovoltaic;
Marched into fluid and adhesive industry.

2010
Developed progressive cavity type adhesive dispensing system;
Marched into automotive electronics industry.

2016
Developed plugger and piston type adhesive dispensing system;
Marched into automotive parts industry.

2018
Developed innovative adhesive dispensing products to solve multiple technical difficulties in EV battery industry;
Developed one platform control system for multiple adhesive dispensing appli cation;
Become market leader in EV battery industry.

2022
Marched into automotive industry and provide feeding, metering and adhesive dispensing system solutions for body shop, painting and final assembly;
Expanded into global markets with products exported to Europe and established a global service network.

2023
Initiate digital transformation to enhance company overall efficiency and competitiveness;
Optimize customer experience and make the development sustainable.

2024
Successfully expanded into BIW shop and automotive parts industry, securing large orders from multiple leading OEMs and top-tier component suppliers, driving a significant increase in market share.

2025
Established regional technical service centers in Europe to enhance local support; simultaneously, launched an integrated intelligent assembly platform for dis pensing and tightening, achieving a new breakthrough in technological integration.

Our Advantages

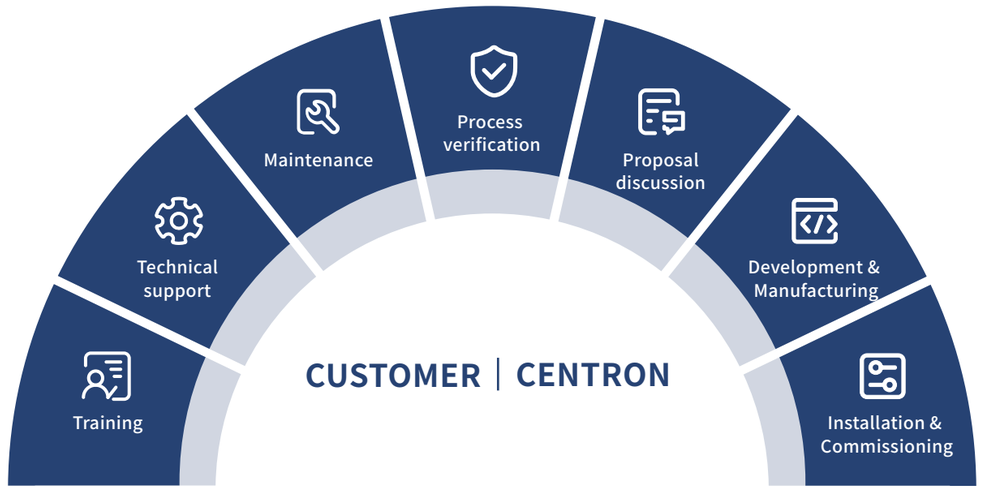
Independent Innovation
With more than 15yrs industries experience, our R&D team develops independently innovative adhesive dispensing products and system, incl. supply system, meter and control system.

Excellent Service
Focus on increasing production process demands of customers, and customize adhesive dispensing system solution. We continually innovate and upgrade our products and system.

Quality Guarantee
We acquired ISO9001/14001, UL certification. Products are in compliance with GB/T and ISO standards.Relying on creditable quality, our company has won the great confidence and popularity of domestic and oversea customers.



Our Service



Global Service Network



R&D Center, Production & Delivery

Shanghai (HQ)
Wuxi

Branch Office

Germany
Hungary
Hong Kong
Malaysia
Shenzhen
Chongqing

Overseas Service Center

France
Italy
South Korea
Mexico
Vietnam
Thailand
Egypt
India
Slovenia
Kazakhstan
Malaysia
America

Cooperation Partner

长安汽车 CHANGAN

Volkswagen

NIO

BYD

奇瑞汽车

DAIMLER

SAIC 上汽集团 SAIC MOTOR

EVE

HUAWEI

SUNWODA 欣旺达

上海通用汽车 SHANGHAI GM

理想

LISHEN Power Your Life!

阿特斯

UAES

BOSCH

vitesco TECHNOLOGIES

赣锋锂业 GanfengLithium

INOVANCE

Welling 威靈電機

ADHESIVE DISPENSING SOLUTIONS

CENTRON® products can be found in a wide variety of markets. We not only provide adhesive dispensing products in dosing, dispensing, potting and trickling impregnation application but also specific solution when you face unique challenge.



Automobile



EV Battery



Electrical Motor and Controller



Energy Storage System



Automotive Parts



3C Electronics



Photostatic



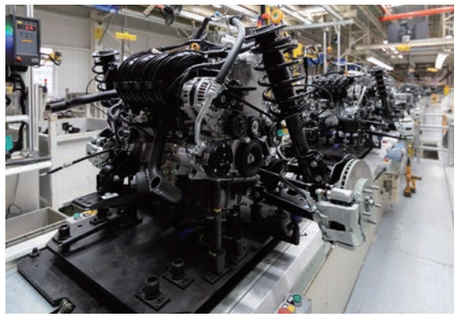
Aerospace



Transportation

Adhesive Dispensing Solution for Automobile







Final Assembly

Structure bonding

- Front/rear windshield glass
- Side windows
- Roof module

Powertrain

Structure bonding

Sealing

- Engine
- Transmission
- Distribution device

Bodyshop

Structure bonding

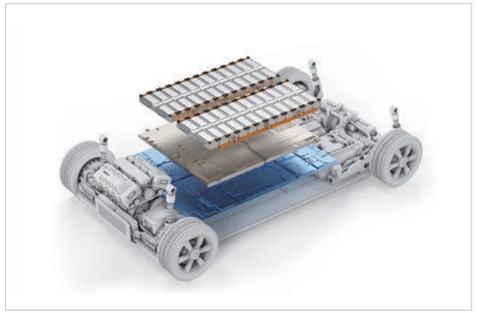
Sealing

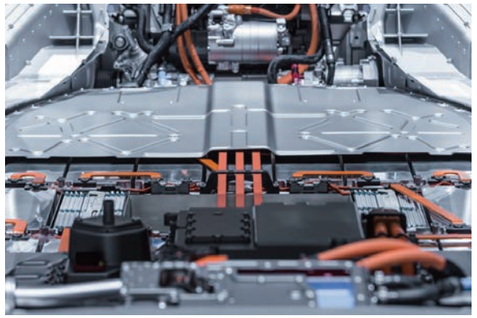
Seam sealing

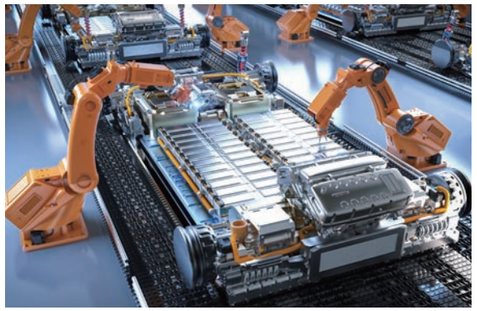
Expansion

- Hood
- Roof
- Doors
- Car side
- Chassis
- Trunk

Adhesive Dispensing Solution for EV Battery







Structure bonding

Thermal conductive

Potting

- Cell
- Battery module
- Battery pack
- Battery tray

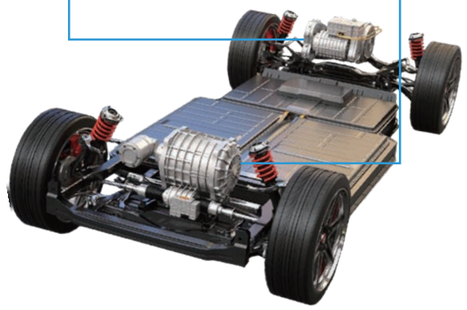
Adhesive Dispensing Solution for Electrical Motor and Controller



Electrical controller



Electrical motor



Structure bonding

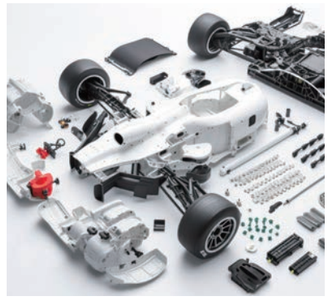
Sealing

Potting

Trickling impregnation

- Flat wire motor
- Electric controller
- Electric drive case

Adhesive Dispensing Solution for Automotive parts



Structure bonding | Sealing

Door panel	Sensors and electronic components	Lighting
Intelligence cockpit	ABS system casing	Audio components

Adhesive Dispensing Solution for Transportation



Sealing | Structure bonding

Noise and vibration dampening	Seats
Large and medium-sized metal and composite structural parts	Window

Adhesive Dispensing Solution for Photostatic



Structure bonding | Potting | Sealing

Junction box	Aluminum frame

Adhesive Dispensing Solution for 3C Electronics



Potting | Structure bonding | Sealing

LED	Semiconductor chip	Screen and shell
Push button on mobile side	CPU and chips	Touch screen and LCD

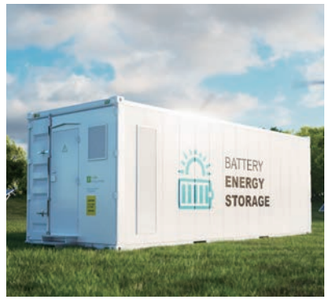
Adhesive dispensing Solution for Aerospace



Structure bonding | Sealing

Rivet and screw	Aerofoil shell	Interlayer

Adhesive Dispensing Solution for Energy Storage System



Structure bonding | Thermal conductive

Pack

Adhesive Dispensing Solutions



One component adhesive dispensing system

Application area

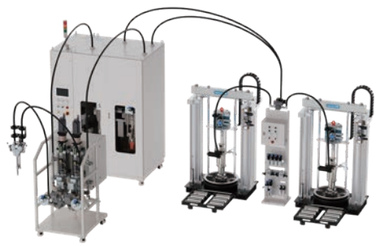
- Automobile
- Automotive parts
- Photostatic



Two-component adhesive dispensing system (with spare pump)

Application area

- EV battery
- Energy storage system
- Car body
- Automotive parts



Two-component adhesive dispensing system (with transfer module)

Application area

- EV battery
- Energy storage system
- Automotive parts



SUPPLY SYSTEM AND PUMPS

01

BARREL PUMP SUPPLY SYSTEM

Centron barrel supply system and pumps deliver medium to high viscosity fluid directly from original packaging barrel to transfer station or metering system to avoid the risks associated with secondary packaging or transferring.

Applications

Middle to high viscosity adhesives (viscosity ⩾20,000cps)

Packaging 20L 50L 200L



Control Panel

- Notification for material placement and liquid level monitoring;
- Barcode scanner as a option to prevent loading wrong material

Cylinder Motor

- Innovation design
- The noise less than 75dB
- Small fluctuation of reversing pressure (reversing time less than 150ms)
- Pressure ratio: 30:1~68:1
- Real-time operation monitoring to prevent runaway

EnPulse Lower Pump

- Pump material is available in carbon steel and stainless steel
- Optional DuraTec wear-resistant technology is suitable for high abrasive and filling material for maximize service life and minimum maintenance

Platen Design

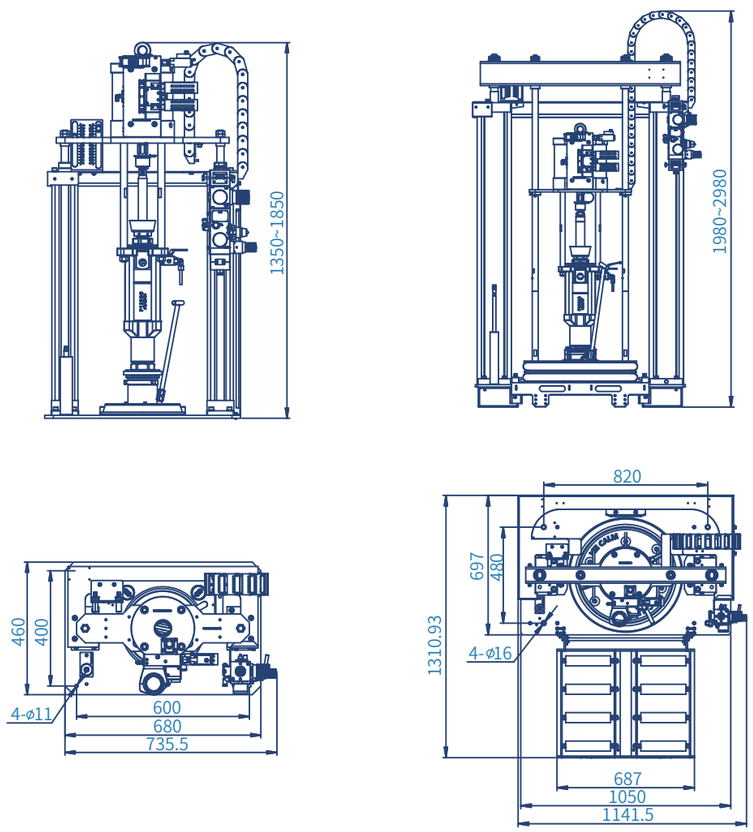
- Maximum utilization of material to reduce waste
- Durable seal parts and easy to replacement

Material Table Roller

- Easy and safe drum placement

Displacement 125cc 210cc 250cc 500cc

*Heating options: platen, pump and hose



20L 200L

Technical Specifications

Drum Size(L)	20|50|200						
Lift Control	Air Control						
Displacement(cc)	125		210		250		500
Piston Pump Lifetime	Standard/ Wear-resistance		Standard/ Wear-resistance		Standard/ Wear-resistance		Standard/ Wear-resistance
Piston Pump Material	Carbon Steel/ Stainless Steel		Carbon Steel/ Stainless Steel		Carbon Steel/ Stainless Steel		Carbon Steel/ Stainless Steel
Pressure Ratio	33:1	57:1	36:1	68:1	30:1	57:1	30:1
Motor Type	D150	D200	D200	D280	D200	D280	D280

Type Designation

C P09 A 1 H

Feed System Type		Lower Pump+Motor+ Pressure Ratio			Lift		Platen & Seal		Platen Heating	
C	Cylinder	P01	P125CS	D150, 33:1	A	080-20L	1	Neoprene	H	Heating
E	Electric	P02	P125CL	D150, 33:1	B	100-200L	2	Fluororubber	N	No Heating
		P03	P125SS	D150, 33:1	C	160-200L	3	Urethane		
		P04	P125SL	D150, 33:1						
		P05	P125CS	D200, 57:1						
		P06	P125CL	D200, 57:1						
		P07	P125SS	D200, 57:1						
		P08	P125SL	D200, 57:1						
		P09	P250CS	D200, 30:1						
		P10	P250CL	D200, 30:1						
		P11	P250SS	D200, 30:1						
		P12	P250SL	D200, 30:1						
		P13	P250CS	D280, 57:1						
		P14	P250CL	D280, 57:1						
		P15	P250SS	D280, 57:1						
		P16	P250SL	D280, 57:1						
		P17	P500CS	D280, 30:1						
		P18	P500CL	D280, 30:1						
		P19	P500SS	D280, 30:1						
		P20	P500SL	D280, 30:1						
		P21	P210CS	D200, 36:1						
		P22	P210CL	D200, 36:1						
		P23	P210SS	D200, 36:1						
		P24	P210SL	D200, 36:1						
		P25	P210CS	D280, 68:1						
		P26	P210CL	D280, 68:1						
		P27	P210SS	D280, 68:1						
		P28	P210SL	D280, 68:1						

LOWER PUMP



- Innovative structure design Long maintenance period
- Positioning design to easy Installation and maintenance
- Available to meet high volume application
- DuraTec wear-resistance technology as optional to apply to high abrasive and filling material and extend lifetime
- Easy installation and maintenance to reduce down time

Type Designation

P 250 C L

Pump Type		Pump Displacement(cc)		Pump Material		Lifetime	
P	Plugger	125	125	C	C-carbon steel	S	S-standard
		210	210	S	S-st.st.	L	L-long life
		250	250				
		500	500				

DuraTec Wear-resistance Technology

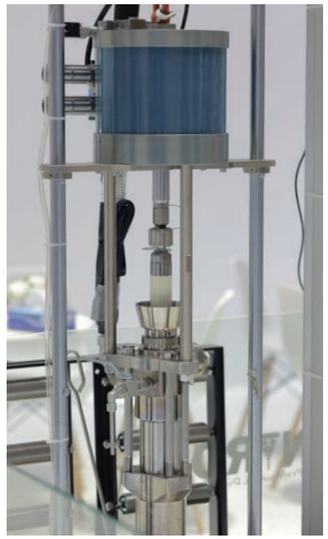
DuraTec wear-resistance technology by Centron uses wear-resistance seal parts and surface material to be designed for deliverying high filling and abrasive material. It can be applied to up to 9W thermal conductive materials.
With Centron Dura-Tec product line, Centron provides complete solutions in Thermal conductivity adhesive application, from the material supply to metering system and dispensing valves.
DuarTec wear-resistance can be selected in the above products.

Feed system | Metering system | Dispensing Module



Application Materials

Epoxy	Silicone	Polyurethane	Acrylic







METERING SYSTEM



02

METERING SYSTEM

It is the core components in adhesive dispensing system.
According production process and requirements, appropriate metering system enables delivery accurately and efficiently materials from feeding system to dispensing system.
System control improve the quality of dispensing and minimize material waste.



Puflo

Pulse Flow
Plunger/piston metering



Miflo

Micro Flow
Progressive cavity pump metering



Enflo

Endless Flow
Endless metering



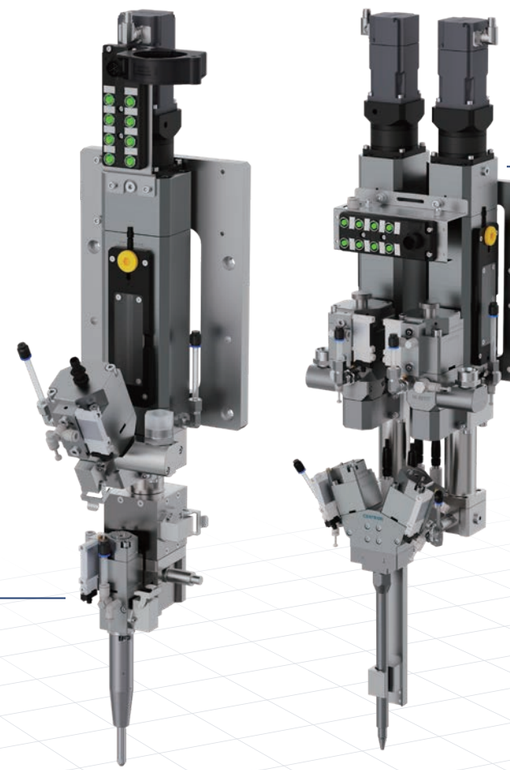
Cyflo

Cylce Flow
Gear metering

Puflo PLUGGER PISTON METERING SYSTEM

Puflo uses plunger metering principle, advanced flow path design and high precision metering. It applies to various materials and meets different market demands.

±1%
Metering Accuracy



Two component
Variable proportion
100:100 ~ 100:10

One component
Variable speed
0.05 to 396cc

Applications

Low to high viscosity adhesives, thermal conductive materials, sealing materials, etc.

Applications

One Component

Automobile
bodyshop / final assembly / painting / electric motor and controller / Transmission / engine

Automotive parts
body / Sensors and electronic components / Lighting / Audio components

Photostatic
junction box / Aluminum frame

Two Components

Wind energy
blades, wind electric motor groove mouth

Car lighting

EV battery
battery cell, Battery module, Battery pack, Battery tray

Automotive electronics

Photostatic
junction box

Features and Advantages

- High precision servo motor and independent development drive structure
- First-in-first-out fluid path to ensure material time efficient
- Structure modular design to easy installation and maintenance
- Specific seal structure design and lubricant technology to decrease maintenance cost
- Fluid simulation technology to optimize fluid path and improve efficiency.
- DuraTec wear-resistance technology as optional to apply to high abrasive and filling material and extend lifetime
- Adaptive control system to ensure higher precision metering.
- Process detection:
  pressure detection, torque detection, position detection
- Options:
  flow monitoring, heating function

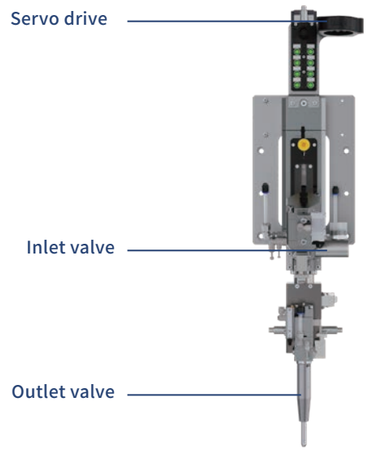
Puflo(1C)Metering Technical Parameter

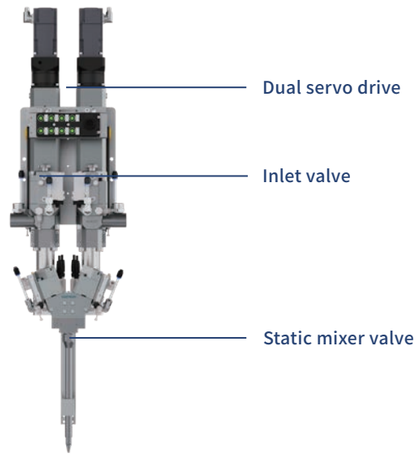
Model No	PF1ALS/L PF1AMS/L PF1AHS/L	PF1BLS/L PF1BMS/L PF1BHS/L	PF1CLS/L PF1CMS/L PF1CHS/L	PF1DLS/L PF1DMS/L PF1DHS/L	PF1ELS/L PF1EMS/L PF1EHS/L	PF1FLS/L PF1FMS/L PF1FHS/L	PF1GLS/L PF1GMS/L PF1GHS/L	PF1HLS/L PF1HMS/L PF1HHS/L	PF1MLS/L PF1MMS/L PF1MHS/L
Metering Type	Plunger Pump	Plunger Pump	Plunger Pump	Piston Pump	Plunger Pump	Piston Pump	Plunger Pump	Plunger Pump	Plunger Pump
Volume (ml)	5	10	20	30	80	100	180	420	1000
Max.shotsize (ml)	4.5	9	18	27	72	90	162	378	900

Puflo(2C)Metering Technical Parameter

Model No	PF1ALS/L PF1AMS/L PF1AHS/L	PF1BLS/L PF1BMS/L PF1BHS/L	PF1CLS/L PF1CMS/L PF1CHS/L	PF1DLS/L PF1DMS/L PF1DHS/L	PF1ELS/L PF1EMS/L PF1EHS/L	PF1FLS/L PF1FMS/L PF1FHS/L	PF1GLS/L PF1GMS/L PF1GHS/L	PF1HLS/L PF1HMS/L PF1HHS/L	PF1MLS/L PF1MMS/L PF1MHS/L
Metering Type	Plunger Pump	Plunger Pump	Plunger Pump	Piston Pump	Plunger Pump	Piston Pump	Plunger Pump	Plunger Pump	Plunger Pump
Volume (ml)	10	20	40	60	160	200	360	840	2000
Max.shotsize (ml)	9	18	36	54	144	180	324	756	1800

*The table is applied to A and B same technical specification





Type Designation

PF 1 DML - CML 2C

Product Catalog		Component		Volume		Viscosity		Lifecycle		Volume		Viscosity		Lifecycle	
		Component1								Component2					
PF	Piston Doser	1	1C	A	005	L	Low	S	Standard						
				B	010	M	Mid	L	Long life						
				C	020	H	High								
				D	030										
				E	080										
				F	100										
				G	180										
				H	420										
				M	1000										
		2	2C	A	005	L	Low	S	Standard	A	005	L	Low	S	Standard
				B	010	M	Mid	L	Long life	B	010	M	Mid	L	Long life
				C	020	H	High			C	020	H	High		
				D	030					D	030				
				E	080					E	080				
				F	100					F	100				
				G	180					G	180				
				H	420					H	420				
				M	1000					M	1000				

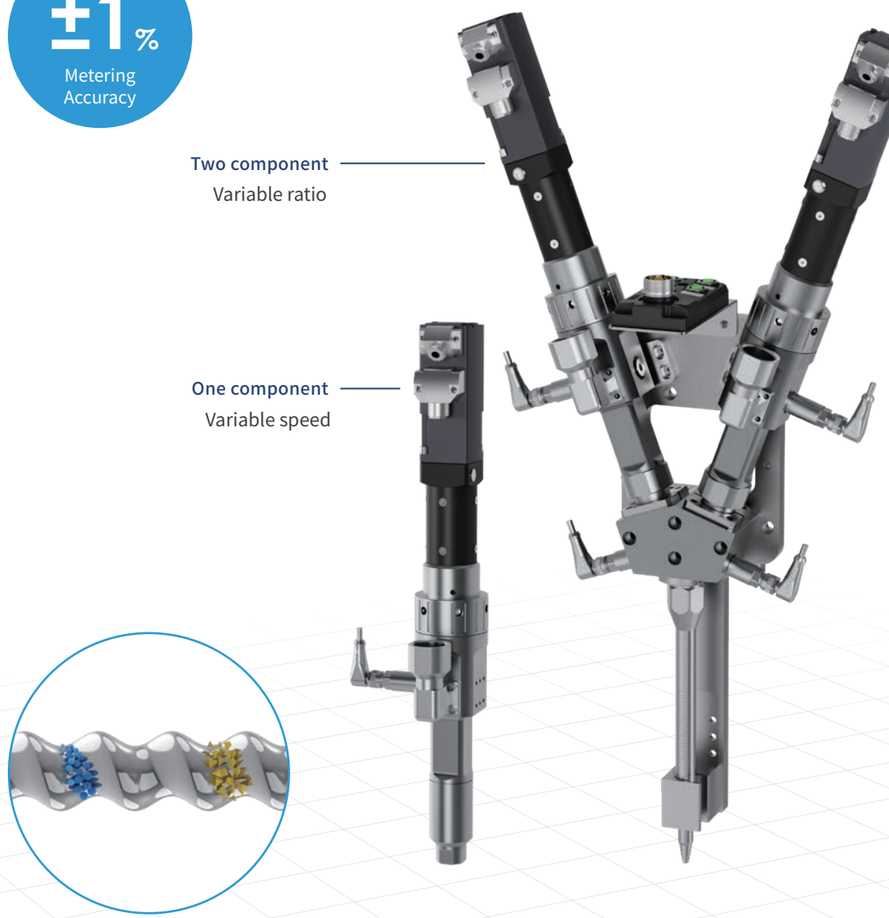
Miflo PROGRESSIVE CAVITY PUMP METERING SYSTEM

Centron Miflo progressive cavity pump metering is pulsation-free and endless metering.
It is mainly applied to micro dispensing, dosing and trickling impregnation, etc.

Applications

Low to high viscosity adhesives, thermal conductive materials, sealing materials, Epoxies, etc.

±1 %
Metering Accuracy



Applications

One Component

Automobile
electric motor and controller

Automotive parts
Automotive intelligent seats / Sensors and electronic components / Lighting / Audio components / ABS case

3C electronics
LED / Push button on mobile side / Semiconductor chip / CPU and chips Screen and shell / Touch screen and LCD

Two Components

EV battery
battery cell / Battery module / Battery pack / Battery tray

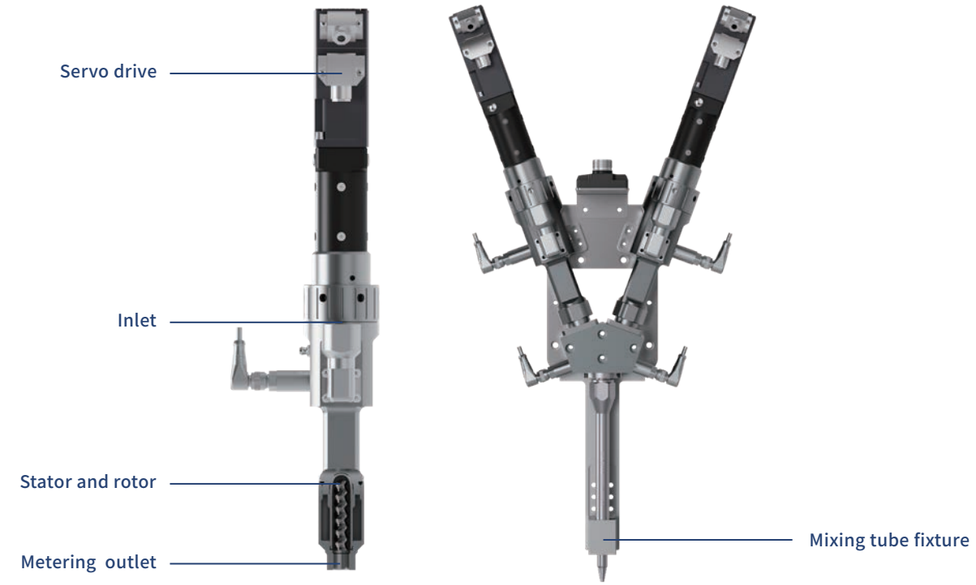
Features and Advantages

- Endless metering, pulsation-free material delivery, no shear force
- large particle materials
- Advance structure design easy to installation and maintenance
- DuraTec wear-resistance technology as optional to apply to high abrasive and filling material and extend lifetime
- High wear-resistance and corrosion resistance stator material as option to extend life time
- Specific seal structure design and lubricant technology to decrease maintenance cost
- Fluid simulation technology to optimize fluid path and improve efficiency
- No welded and less pressure lost to achieve accurate metering precision
- Process detection: pressure detection, torque detection, position detection
- Options: heating function

Miflo (1C) Metering Technical Parameter					
Model No	MF1AL1S/L MF1AL2S/L	MF1BL1S/L MF1BL2S/L	MF1CL1S/L MF1CL2S/L	MF1DL1S/L MF1DL2S/L	MF1EL1S/L MF1EL2S/L
Min. dispensing quantity (ml)	0.015	0.035	0.1	0.2	0.5
Torque (Nm)	8	8	8	8	8
Max. volume flow (ml/min)	17	47	137	225	650
Metering pressure (bar)	⩽30	⩽30	⩽30	⩽30	⩽20
Inlet pressure (bar)	⩽20	⩽20	⩽20	⩽20	⩽15
Dispensing Accuracy (%)	±1	±1	±1	±1	±1
Working Temperature (°C)	10-40	10-40	10-40	10-40	10-40
Resistant Temperature(°C)	10-50	10-50	10-50	10-50	10-50
Max. RPM (r/min)	120	120	120	120	120

Miflo (2C) Metering Technical Parameter						
Model No		0.15	0.35	1	2	5
Max. volume flow (ml/min)	0.15	32	56	130	244	586
Min. dispensing quantity (ml)		0.03	0.049	0.114	0.214	0.514
Max. volume flow (ml/min)	0.35		80	154	268	610
Min. dispensing quantity (ml)			0.07	0.135	0.235	0.535
Max. volume flow (ml/min)	1			228	342	684
Min. dispensing quantity (ml)				0.2	0.3	0.6
Max. volume flow (ml/min)	2				456	798
Min. dispensing quantity (ml)					0.4	0.7
Max. volume flow (ml/min)	5					1140
Min. dispensing quantity (ml)						1

*The maximum and minimum flow rate is related to the mixing ratio.
For further parameters of two components, please refer to one component parameter.



Type Designation

MF 1 A L 2 L - A L 2 L
2C

Product Catalog	Component	Volume Flow	Viscosity	Stator Material	Rotor Material	Volume Flow	Viscosity	Stator Material	Rotor Material
	Component1					Component2			
MF Progressive Cavity Pump Meter	1 1C	A 0.15	L High	1 FFM	S Std				
		B 0.35	M Low	2 FFKM	L Long life				
		C 1							
		D 2							
		E 5							
	2 2C	A 0.15		1 FFM	S Std	A 0.15	L Low	1 FFM	S Std
		B 0.35		2 FFKM	L Long life	B 0.35	M Mid	2 FFKM	L Long life
		C 1				C 1			
		D 2				D 2			
		E 5				E 3			

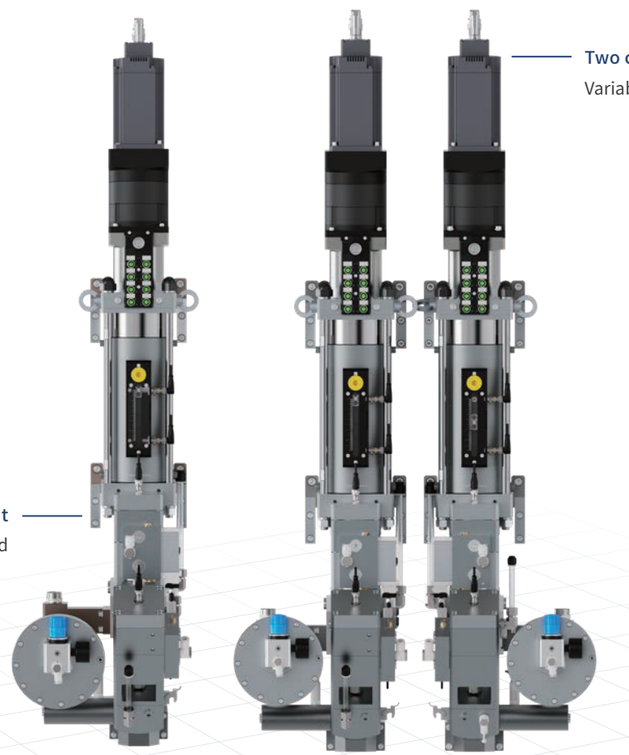
Enflo ENDLESS METERING SYSTEM

Centron Enflo is endless metering type without filling time to enhance production efficiency

Applications

Low to high viscosity adhesives, thermal conductive materials, sealing materials, Epoxies, etc.

±3%
Metering Accuracy



Two component
Variable ratio

One component
Variable speed

*Metering accuracy ±3% when metering system and dispensing module integrated only.

Applications

One Component

Automobile
bodyshop / final assembly

Photostatic
junction box / aluminate

Two Components

EV battery
battery cell, Battery module / Battery pack / Battery tray

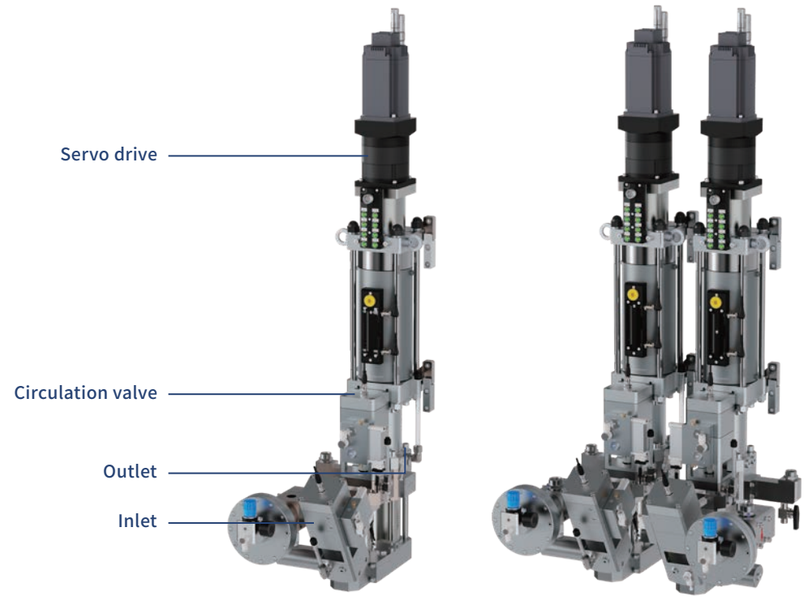
Features and Advantages

- High precision servo motor and independent development drive structure
- Structure modular design to easy installation and maintenance
- Specific seal structure design and lubricant technology to decrease maintenance cost
- Independent drive control of inlet valve and circulation valve, short and stable change over time
- Inlet integrated with pressure regulator to ensure inlet pressure stable
- Fluid simulation technology to optimize fluid path and improve efficiency
- Process detection: pressure detection, torque detection, position detection
- Maximum flow rate:
  70cc/s
- DuraTec wear-resistance technology as optional to apply to high abrasive and filling material and extend lifetime
- Options:
  flow monitoring, heating function

Enflo (1C) Metering Technical Parameter					
Metering Type	Piston Pump Endless Metering				
Capacity	40	60	80	120	160
Min. shot size (ml)	0.7	1.4	2.1	2.8	4.2
Speed (ml/s)	0.27-5.4	0.4-0.8	0.5-10.0	0.8-16.0	1.1-21.5
Pressure Range (bar)	Inlet Pressure：0-120 ; Metering Pressure：0-200				
Dispensing Accuracy	±3%				
Life Cycle	Std/Long Life				

Enflo (2C) Metering Technical Parameter					
Metering Type	Piston Pump Endless Metering				
Capacity	80	120	160	240	320
Min. shot size (ml)	1.4	2.8	4.2	5.6	8.4
Speed (ml/s)	0.54-10.8	0.8-16	1-25.0	1.6-32	2.2-43.0
Pressure Range (bar)	Inlet Pressure：0-120 ; Metering Pressure：0-200				
Adjustable Proportion	100:100 ~ 100:10				
Dispensing Accuracy	±3%				

*Options: flow monitoring, heating function.



Type Designation

EF 1 B M L - D M L 2 C

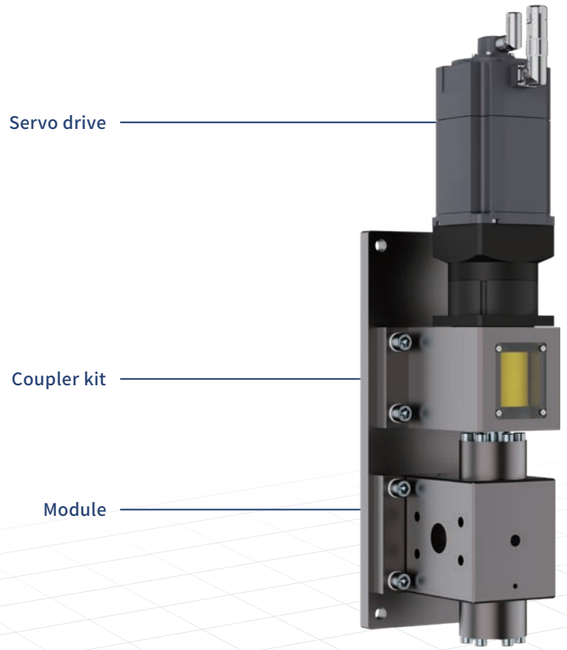
Product Catalog		Component		Volume		Viscosity		Lifecycle		Volume		Viscosity		Lifecycle	
		Component1								Component2					
EF	Continuous Meter	1	1C	A	40	L	Low	S	Std						
				B	60	M	Mid	L	Long life						
				C	80	H	High								
				D	120										
				E	160										
		2	2C	A	40	L	Low	S	Std	A	40	L	Low	S	Std
				B	60	M	Mid	L	Long life	B	60	M	Mid	L	Long life
				C	80	H	High			C	80	H	High		
				D	120					D	120				
				E	160					E	160				

Cyflo GEAR METERING SYSTEM

Centron Cyflo is high precision servo motor control gear endless metering which achieves accurate dosing in high flow and high viscosity application.

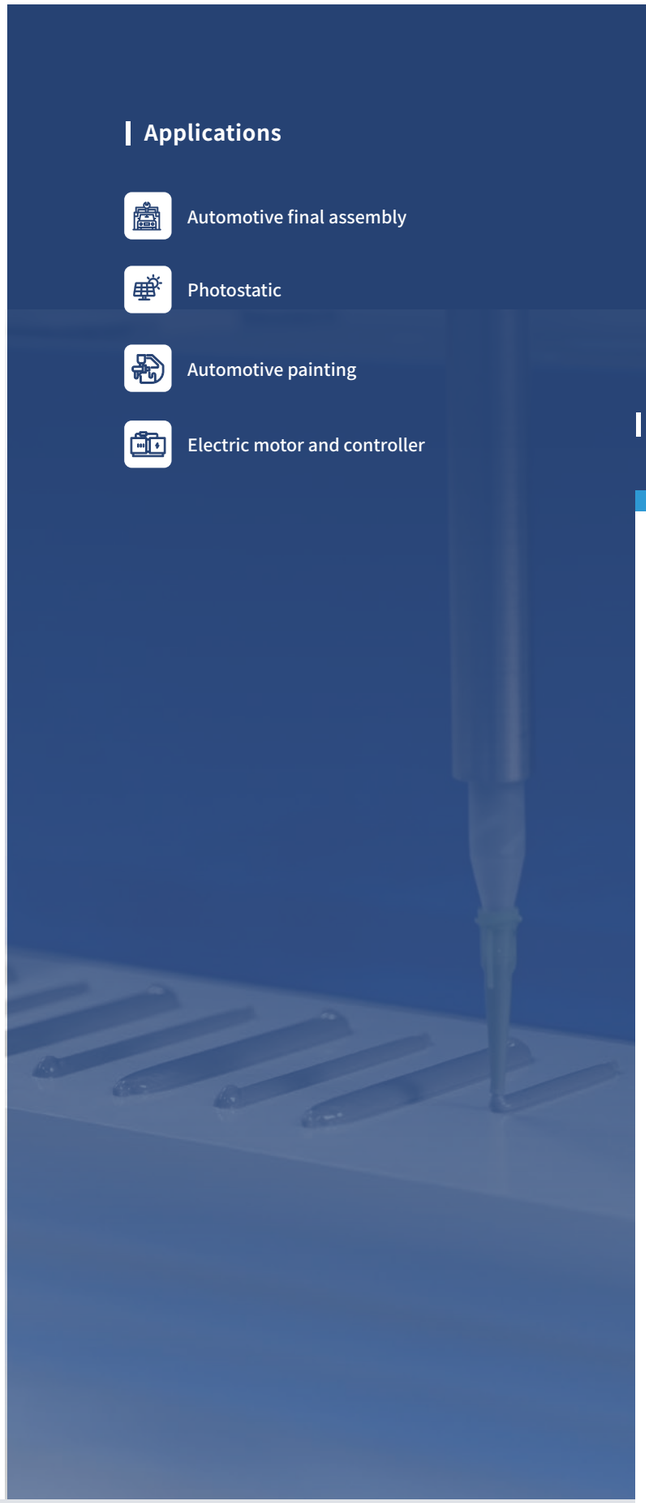
Applications

Low to high viscosity adhesives, sealing materials, etc.



Applications

- Automotive final assembly
- Photostatic
- Automotive painting
- Electric motor and controller



Features and Advantages

- Stable accuracy dispensing in high flow rate
- Quick start-stop response to reduce material waste
- Advanced structure design to easy installation and maintenance
- Servo motor control, high precision dispensing

Cyflo Gear Metering Technology Parameter					
Model No	CF1ALS/L CF1AMS/L CF1AHS/L	CF1BLS/L CF1BMS/L CF1BHS/L	CF1CLS/L CF1CMS/L CF1CHS/L	CF1DLS/L CF1DMS/L CF1DHS/L	CF1ELS/L CF1EMS/L CF1EHS/L
Displacement (cc/rev)	10	20	30	50	70
Viscosity Cps	20,000——3,000,000				
Inlet Pressure (bar)	200				
Outlet Pressure (bar)	280				
Max Flow Rate (ml/s)	8	16	24	40	56
Servo Drive Power (W)	400	750	1500	2000	3000
Inlet Dimension (G)	3/4"	1"	1"1/4"	1"1/2"	1"1/2"
Outlet Dimension (G)	1/2"	3/4"	1"	1"1/4"	1"1/4"

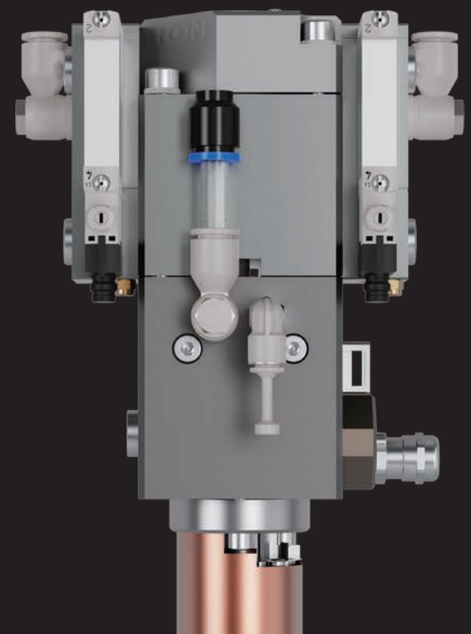
Type Designation

CF 1 C L S

Product Catalog		Component		Volume Flow		Viscosity		Lifecycle	
CF	Gear Meter	1	1C	A	10	L	Low	S	Std
				B	20	M	Mid	L	Long life
				C	30	H	High		
				D	50				
				E	70				



APPLICATORS AND DISPENSE VALVES



03

APPLICATORS AND DISPENSE VALVES

Centron dispensing module offers reliable, durable and different seal type to meet different requirements of dispensing applications.

One Component Applicator



Bodyshop Applicator

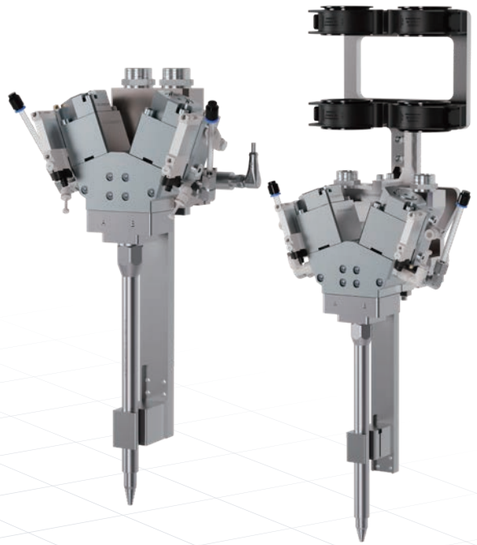
For bodyshop application



Stitchbead Applicator

For sealing application

Mix Valve



Mixing Applicator

Cylinder control

Features and Advantages

- Different seal type to meet different requirement, enhance dispensing quality
- Innovative structure design to reduce material waste
- Reduce maintenance cost, extend lifetime
- Mechanical positioning easy to maintenance
- Wear-resistance thimble to extend lifetime
- Max working pressure up to 350bar

One Component Applicator			
Work Type	Thimble	Suction	Thimble
Flow Rate（ml/s）	0.4-4	1-7	2-35
Pressure Range（bar）	0-350	0-250	0-250
Applicable Viscosity(cps)	100-2,000,000		
Life Cycle	Std/Long Life		

Two Component Mixing Valve				
Work Type	Thimble	Suction	Thimble	Thimble
Pressure Range（bar）	0-250	0-250	0-250	0-250
Flow Rate（ml/s）	0.5-10.0	0.5-18.0	0.5-23.0	1.0-72.0
Applicable Viscosity(cps)	100-2,000,000			
Life Cycle	Std/Long Life			
Applicable Mixing Ratio	100:10		100:100	

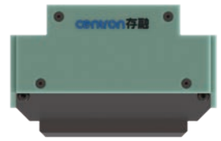
Type Designation

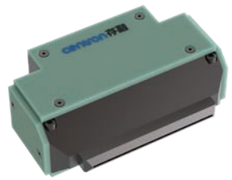
V 1 T 3 08 S 0

Product Catalog	Component	Type	Cylinder Diameter	Top Pin Pull Rod Size	Lifecycle	Heating
V Applicator	1 1C	T Thimble	3 32mm	04 4mm	S Std	0 Not Heated
	2 2C	S Suction	4 40mm	06 6mm	L Long Life	1 Heated
			5 50mm	08 8mm		
			6 60mm	10 10mm		
			8 80mm	15 15mm		

WIDE APPLICATOR

Wide Applicator Parameter		
MODULE NO	Model No（mm）	Material
VW050P	50	Plastic
VW022M	22	Metal
VW052S	25	SUS304
VW030S	30	SUS304
VW040S	40	SUS304
VW050S	50	SUS304
VW055S	55	SUS304
VW065S	65	SUS304
VW070S	70	SUS304
VW110S	110	SUS304





Type Designation

VW 09 M

Product Catalog	Width	Material
VW Wide Applicator	020 20mm	P Plastic
	030 30mm	M Metal
	040 40mm	S St.St
	050 50mm	
	060 60mm	
	070 70mm	
	080 80mm	
	090 90mm	
	100 100mm	
	110 110mm	

NEEDLE

N A 13 15

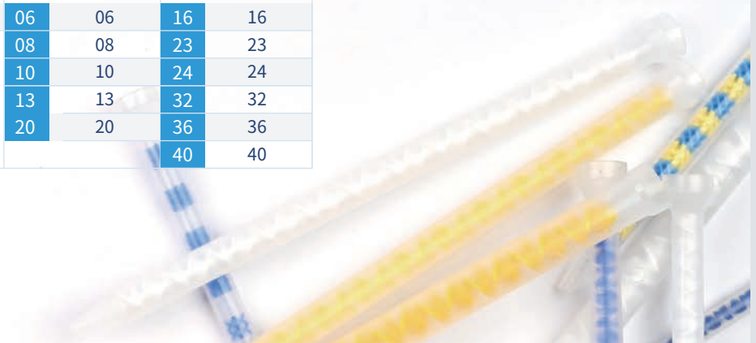
Product Catalog		Type		Width		Inch	
N	Needle	A	Plastic Needle	08	08	05	0.5
		B	Plastic Needle+st.st. tube	09	09	10	1
		C	St.st	10	10	15	1.5
				11	11	20	2
				12	12	25	2.5
				13	13	30	3
				14	14	35	3.5
				15	15	40	4
				16	16	45	4.5
				17	17	50	5
				18	18		
				19	19		
				20	20		
				21	21		
				22	22		
				23	23		
				24	24		
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				26	26		
				27	27		
				28	28		
				29	29		
				30	30		
				31	31		
				32	32		
				33	33		



STATIC MIXER

MT 06 24

Product Catalog		Inner Diameter		Pitch	
MT	Static Mix Tube	06	06	16	16
		08	08	23	23
		10	10	24	24
		13	13	32	32
		20	20	36	36
				40	40



CS2000 CONTROL SYSTEM



04

CS2000 CONTROL SYSTEM

High production efficiency and easy-to-use professional adhesive dispensing control system

New generation CS2000 control system offers an innovative design, high performance and cost-effective system to enhance customer production efficiency and competitive and reduce new product go-to-market time. CS2000 control system provides a strong guarantee for the sustainable development.

Enhance production efficiency

1ms work cycle as low as
Shot response time

Good compatibility

flexible for industry common buses such as PROFINET、EtherCAT、EtherNet/IP、CC-Link

Enhance production quality

High precision metering
Stable beads
Difficult dispensing processes

Reduce maintenance cost

Standardized program
sustainable iteration

Simple operation

10” inch high resolution color touch screen
user interface easy and simply to operate

Data management

Multiple key work parameter upload, such as work pressure, volume, temperature, etc

Self-adaptation control

Self-learning of adhesive viscosity change during operation, self-adaptation adjustment of metering parameter, maintain equipment accuracy

Authority management

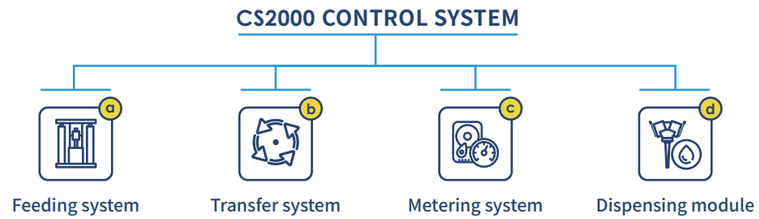
Multiple authority management
Multiple method for log-on: password, ID card (optional)

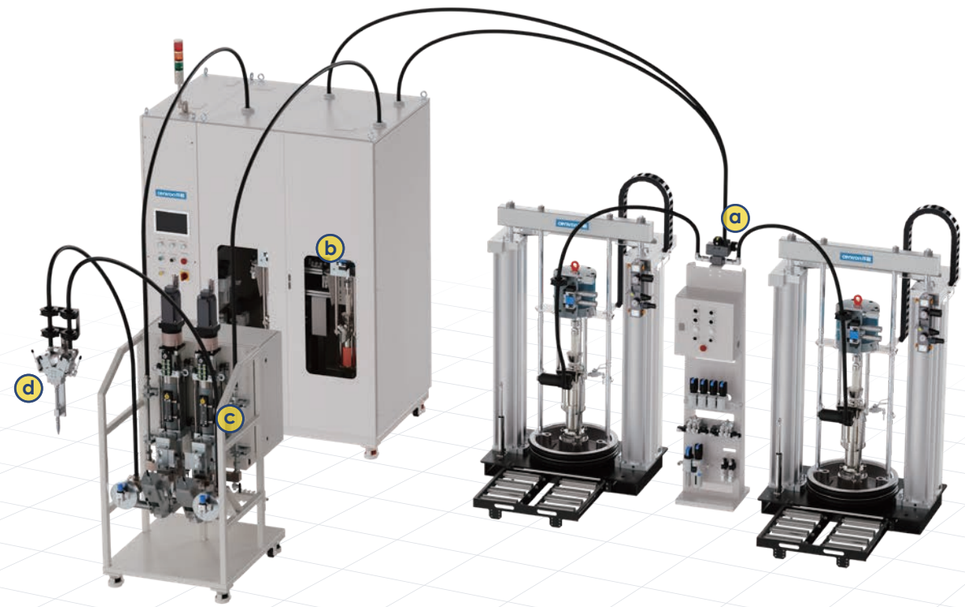
CS2000-PF	PF Puflo Piston Metering Control System
CS2000-EF	EF Enflo Continuous Metering Control System
CS2000-SD	Single Servo Dual Components Metering Control System
CS2000-UV	UV Universal Dispensing Control System（Automobile）
CS2000-MF	MF Miflo Progressive Cavity Metering Control System

Independent Research and Development

Strong Performance

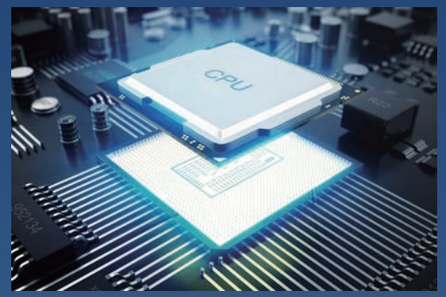
Meet Your Different Application Requirements





High Performance

Program scan period as low as 1ms
Reduce response time, enhance production efficiency
Less program scan period to enhance bead stability



Program scan cycle
As low as **1** ms

High Compatibility

Flexible for various industry buses



4
Industry buses

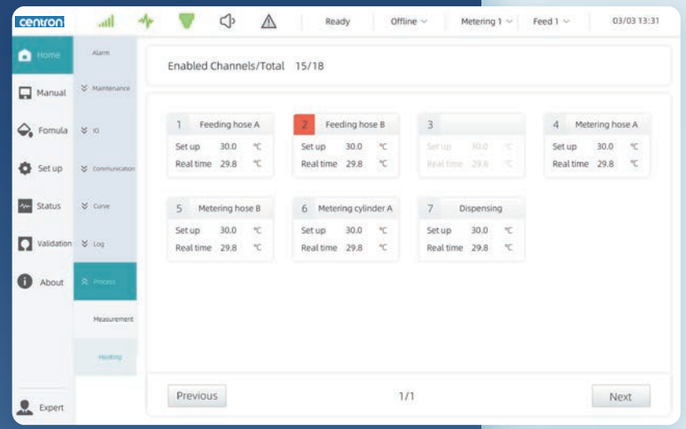
PROFINET®
CC-Link
EtherNet/IP™
EtherCAT®

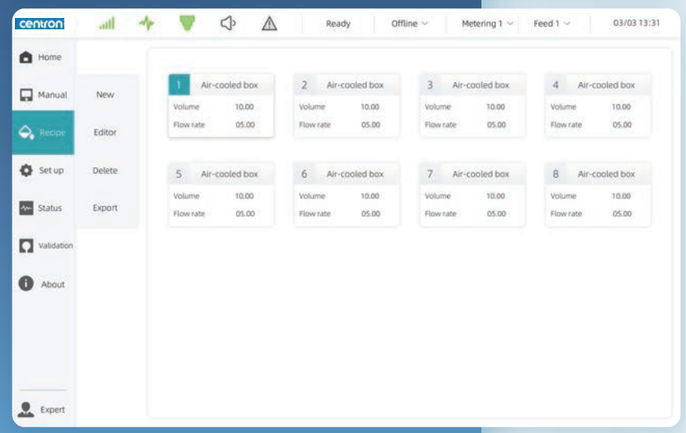
High Flexibility

Support up to 255 independent formulas
Different products integrated heating control and support up to 36 channels

Available independent formula up to **255**

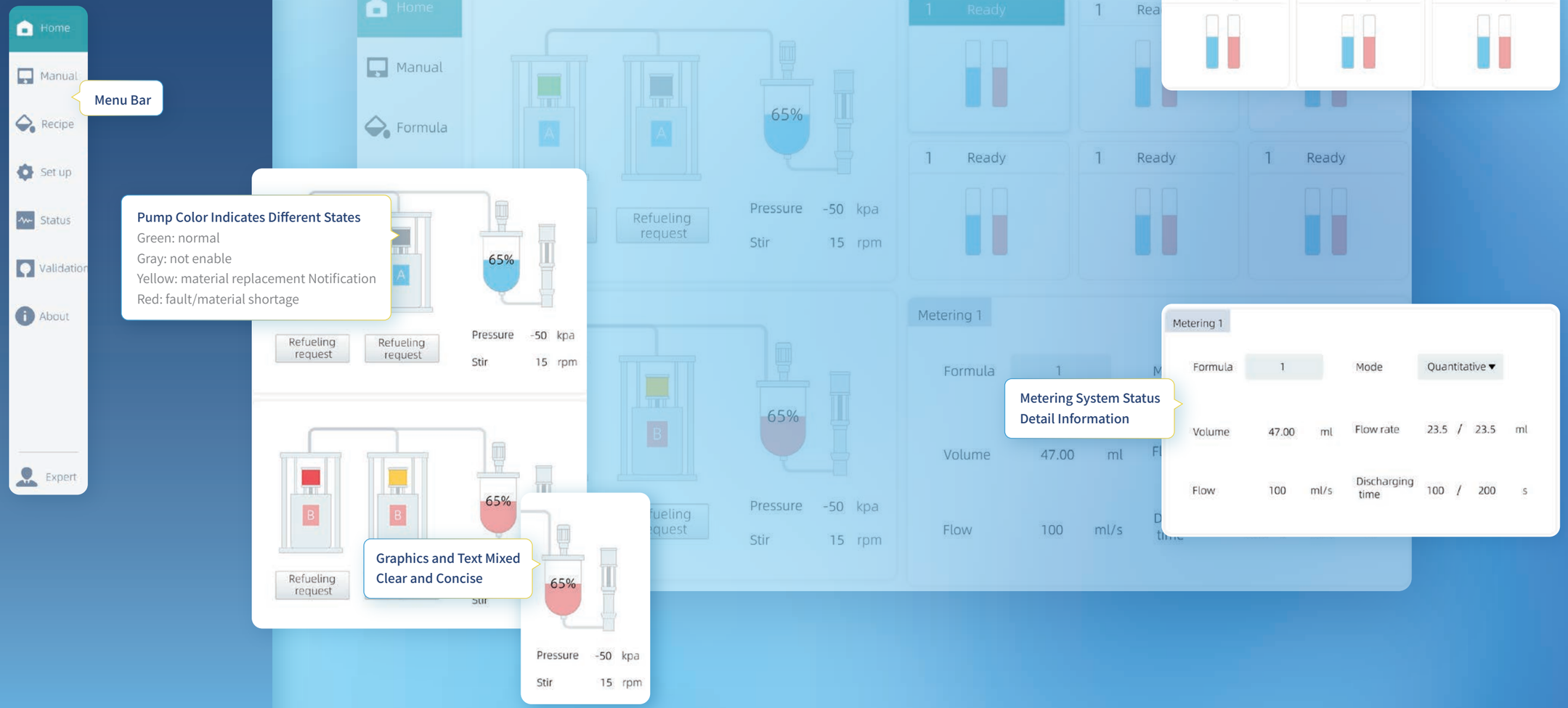
Integrated heating control up to **36** channels





User Interface Features

Graphic interface to easy use
Each system partitioned shown and status at a glance

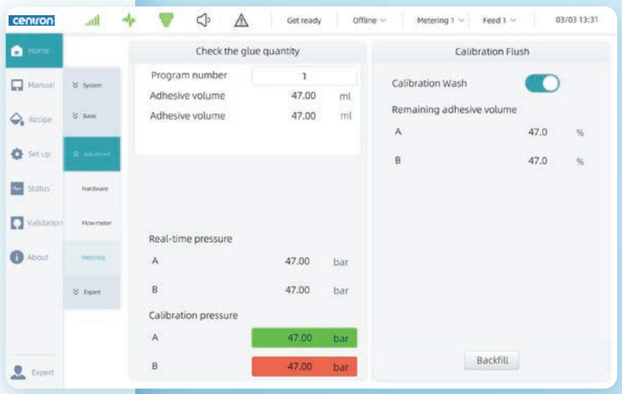


Intelligent Function

Intelligent pre-loading: Rapidly Set up the working pressure to reduce dispensing CT;

Intelligent re-fill: automatically adjust the refill process to reduce evacuation prob-ability

Intelligent calibration: high speed and high accuracy for calibration work, easy to operation;

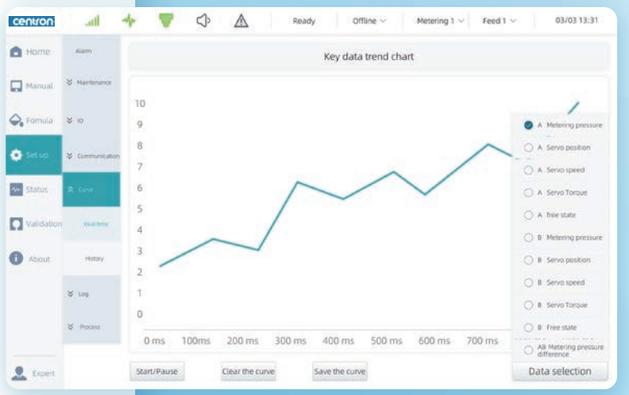


Real-time Curve

Real-time key data trend curve, easy to locate trouble.

Data option: metering pressure, servo drive status, etc

Available for curve saving and forward-ing, easy to remote support and trouble review and summary



Life Time Monitoring

Life time monitoring for key wearing parts. System automatic maintenance alarm when product towards the end of its lifetime to reduce unscheduled downtime.

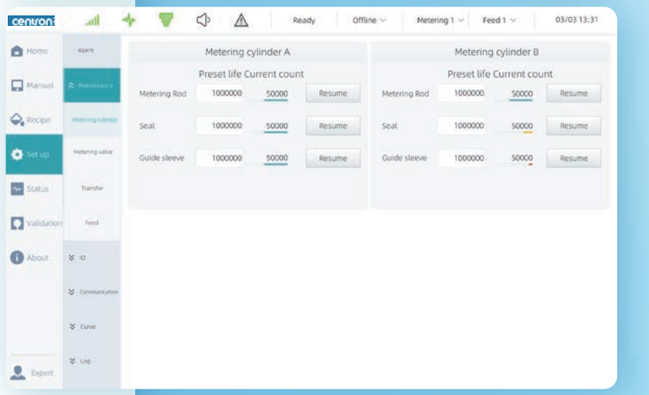
Maintenance reminder ratio setting

Progress bar color shows different life time:

Blue: full life time

Yellow: purchase new parts reminder

Red: end of its life time soon



Bubble Monitoring

- Monitor bubble in metering system, automatically exhaust air when bubbler in fluid to prevent bead broken.
- One of challenge for adhesive dispensing is to monitor air in system or during dispensing.
- It hardly finds air or bubbles with naked eye so beads will have serious problems if things go on like this.
- Please see 4 types problem:

Type 1

i. Bead connected
ii. Surface covered
iii. Almost no gap

Type 2

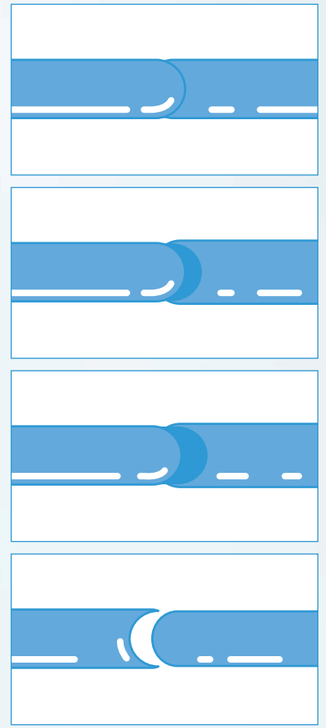
i. Bead connected
ii. Surface covered
iii. Easy to find gap

Type 3

i. Bead connected not close
ii. Surface covered
iii. Easy to find gap

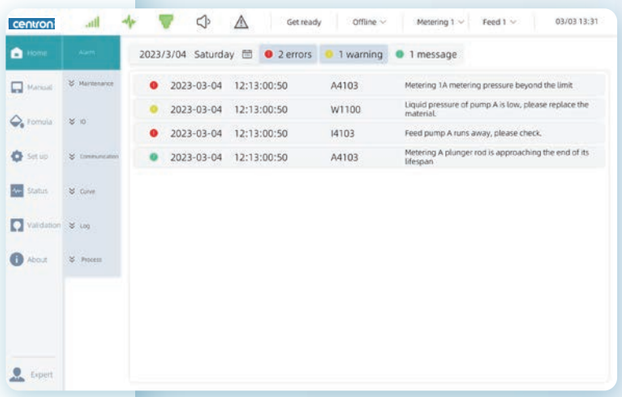
Type 4

i. Bead not connected
ii. Surface not covered
iii. obvious gap



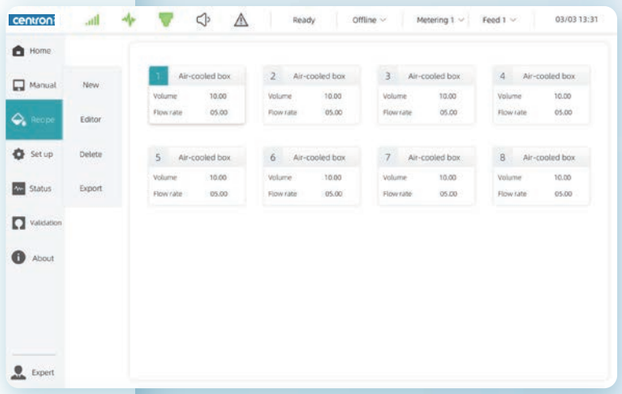
Commissioning and Troubleshoot Information

Clear text troubleshoot information
reduce shutdown/troubleshooting time



Innovative Storage Solution

Parameter, process data, alarms is independently saved and available to separate back-up.



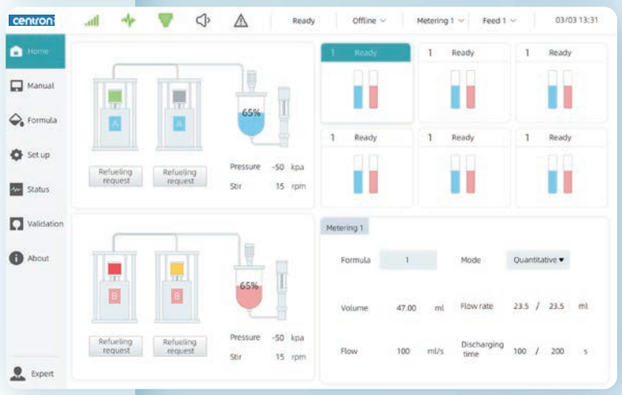
Optimized Troubleshoot

Graphical interface, different color shows different status to easily locate trouble position

Modular status overview to quickly locate trouble modular;

Trouble history list to review all trouble information

*different motor color shows different pump status



TRANSFER SYSTEM

05



TRANSFER SYSTEM

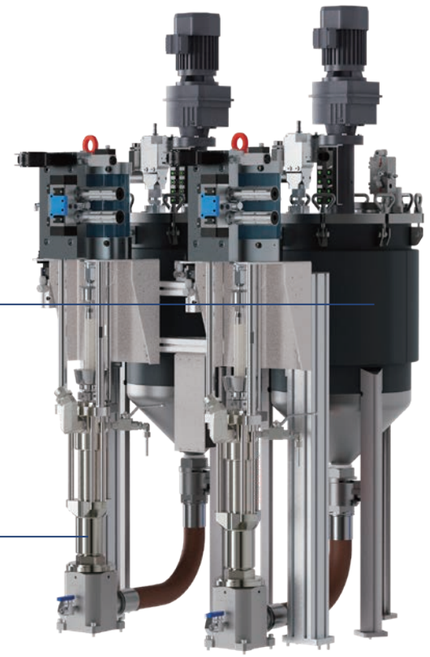
Centron transfer system provides material pretreatment in order to delivery more stable material, enhance metering system stability and enable convenient replacement of material barrels, without disrupting production.

Applications

Mainly for two component high viscosity and thixotropy adhesive which is easy precipitation and layer, need heating and remove bubble.



*It can be integrated with feeding system in one cabinet.



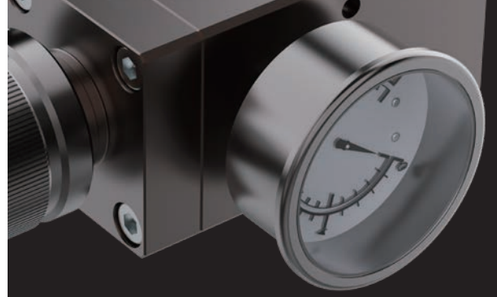
- Material utilization up to 99%
- Prevent precipitation and layer
- Specific vacuum bubble removing technology
- Material replacement without shutdown to ensure continuity prduction

Technical Parameter			
Viscosity (cps)	AB High Viscosity A:20,000-500,000 B:20,000-500,000	A High Viscosity B Low Viscosity A:20,000-500,000 B:100-10,000	AB Low Viscosity A:100-10,000 B:100-10,000
Transfer barrel	Tank Size	30L|45L|60L	
	Tank Material	SUS304stainless steel, internal polished, external nanocoating	
	Stirring Method	Electric stirring, RPM 5-30R/min, frequency conversion, speed detection	
	Liquid Level Detection	Online liquid level sensor	
	Nitrogen Protective	Nitrogen port and control	
	Function	Vacuum, pressure detection	
	Transfer Station	Diaphragm Pump;Plugger Pump;2-ball Pump	

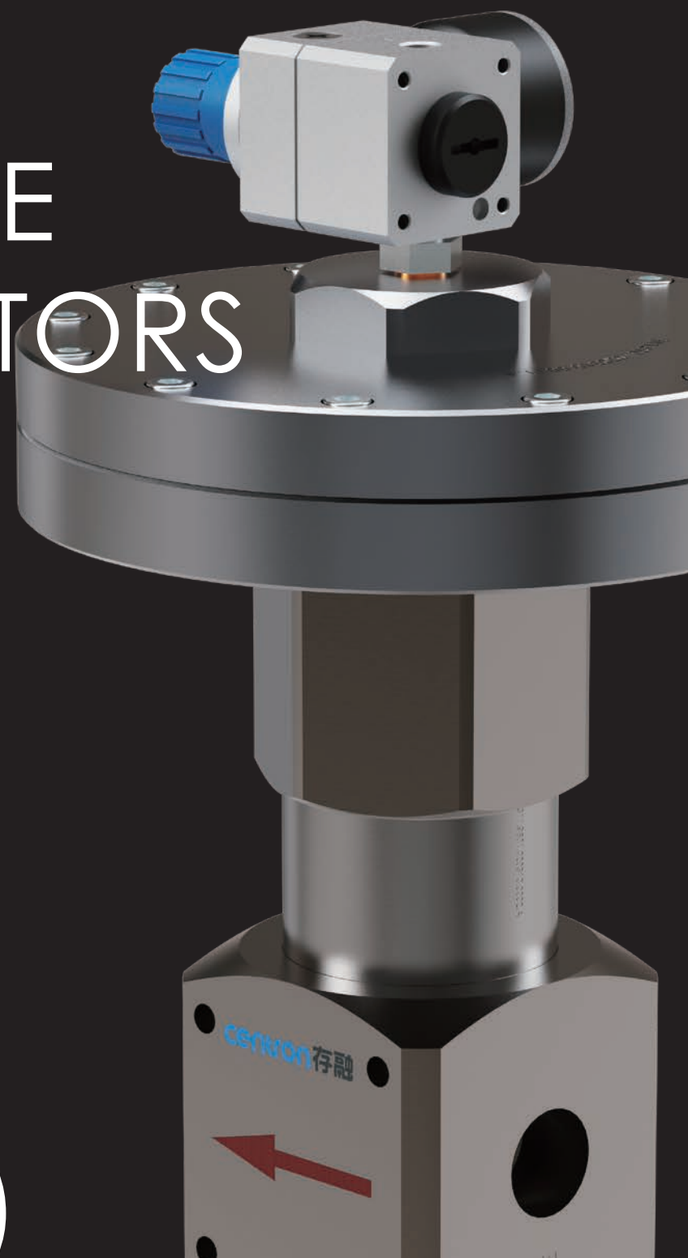
Type Designation

TS A 6 6 S

Product Catalog		Type		A Volume		B Volume		Machine Cabinet	
TS	Transfer Station	A	AB High Viscosity	3	30	3	30	S	Single Cabinet
		B	AB Low Viscosity (with vacuum pump)	4	45	4	45	C	Complex Cabinet
		C	A High Viscosity, B Low Viscosity	6	60	6	60		



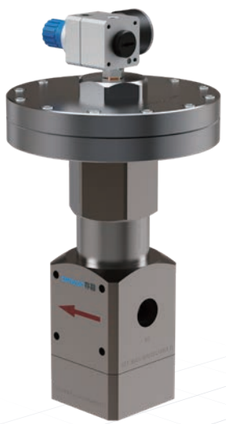
FLUID PRESSURE REGULATORS



06

FLUID PRESSURE REGULATORS

Pressure regulator is to adjust optimal working pressure of material from pump and make fluid smooth flow.





pneumatic





mechanical

Technical Parameter				
Model No	Control Type	Viscosity (cps)	Inlet Pressure (bar)	Outlet Pressure (bar)
PRM2BC	Mechanical	50,000-2,000,000	250	15~150
PRM2CC	Mechanical	50,000-2,000,000	50	5~15
PRM4AC	Mechanical	50,000-2,000,000	400	28~310
PRP4AC	Pneumatic	50,000-2,000,000	400	28~310
PRP2CC	Pneumatic	50,000-2,000,000	50	5~15

Type Designation

PR M 2 A C

Product Catalog		Type		Flow		Pressure Regulating		Material	
PR	Pressure Regulator	M	Mechanical	2	G1/2 Flow Gate	A	High Pressure 28-310bar	C	Carbon Steel
		P	Pneumatic	4	G3/4 Flow Gate	B	Mid Pressure 15-150bar	S	St.St.
						C	Low Pressure 5-15bar		
						D	Low Pressure 5-20bar		

ANNEX

FLOWMETER
HOSE

07

FLOWMETER

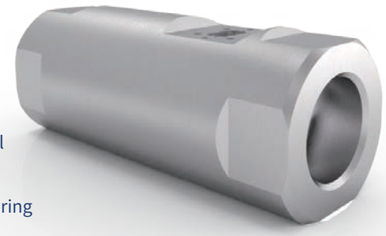
Centron offers multiple flowmeter to meet different requirements.
Flowmeter measures the fluid flow of hose to make whole system more precision operate. It is able to measure instantaneous flow rate as well as the total amount of fluid in a certain period time.

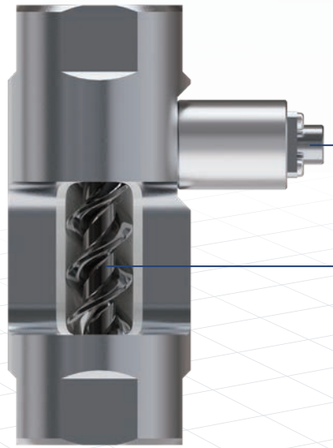
Application Area

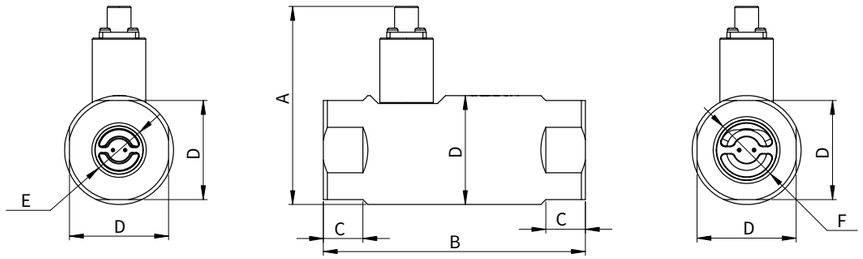
- Thermal conductive materials
- Thermal conductive structure adhesive
- Adhesive with glass microbeads/abrasive

Features

- One component flowmeter
- Low pressure loss of inlet
- Apply to big particle filling material
- Simple K coefficient calibration
- No obstruction during flow monitoring







	A	B	C	D	E	F
FM1V020	100mm	132mm	20mm	50mm	G1inlet	G1outlet

Technical Parameter	
Model No	FM1V020
Range	1.0~20ml/s
Repeatability	±5%
Progressive Cavity Type	about 3ml/r
Pulse Resolution	1280 pulse/r
Max Pressure	3000psi
Viscosity	25,000-1,000,000cps
Interface Type	Inlet：G1 Outlet：G1"
Material	Stainless Steel
Weight	2kg
Fluid Type	Urethanes，Epoxies，Organosilicon, Acrylics
Recommended Maintenance	One Calibration per Month
Pulse Number	1280 pulse/r
Power Supple	DC 24V
Current	< 50mA
Power Supply Protection	Reverse Protection Function
Environment Temperature	0°C - 60°C
Storage and Transportation	0°C - 60°C
Electrical Connector	5 Cores Male Type A
Output Circuit Type	A/B Phase Pulse
Short-circuit Protection	Yes
Output Current Limit	15mA
Low Level Output Voltage	＜1V
High Level Output Voltage	＞21V

Type Designation

FM 2V 100

Product Catalog		Type		Volume
FM	Flow Meter	GE	Gear	002
				004
				010
		1V	Single Screw Flow Meter	020
		2V	Double Screw Flow Meter	020
				040
				100
				200
		DP	Different Pressure	

HOSE

Type Designation

H T 10 M

Product Catalog		Material		Diameter		Pressure (psi)	
H	Hose	T	Teflon	08	DN08	M	3000
		N	Nylon	10	DN10	H	5000
		W	Teflon Insulation Hose	12	DN12		
		H	Teflon Heating Hose	16	DN16		
				20	DN19		
				25	DN25		
				32	DN32		
				40	DN40		



