

centron

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centron



Centron®

ADHESIVE DISPENSING AND METERING SYSTEM

CONTENTS

04	ABOUT US
04	Company Profile
06	Development History
07	Our Advantage/ Our Service
08	Worldwide Service and Support
10	Cooperation Partner
12	Adhesive Dispensing Solutions
19	SUPPLY SYSTEM AND PUMPS
23	Lower Pump
25	METERING SYSTEM
28	Puflo Plugger Piston Metering System
32	Miflo Progressive Cavity Pump Metering System
36	Enflo Endless Metering System
40	Cyflo Gear Metering System
43	APPLICATORS AND DISPENSE VALVES
44	Applicator
47	Wide Applicator Parameter
48	Needle
48	Static Mixer
49	CONTROL SYSTEM
59	TRANSFER SYSTEM
63	FLUID PRESSURE REGULATORS
66	ANNEX

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 application;
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 dispensing and tightening, achieving a new breakthrough in technological integration.

| Our Advantages

- Independent Innovation**

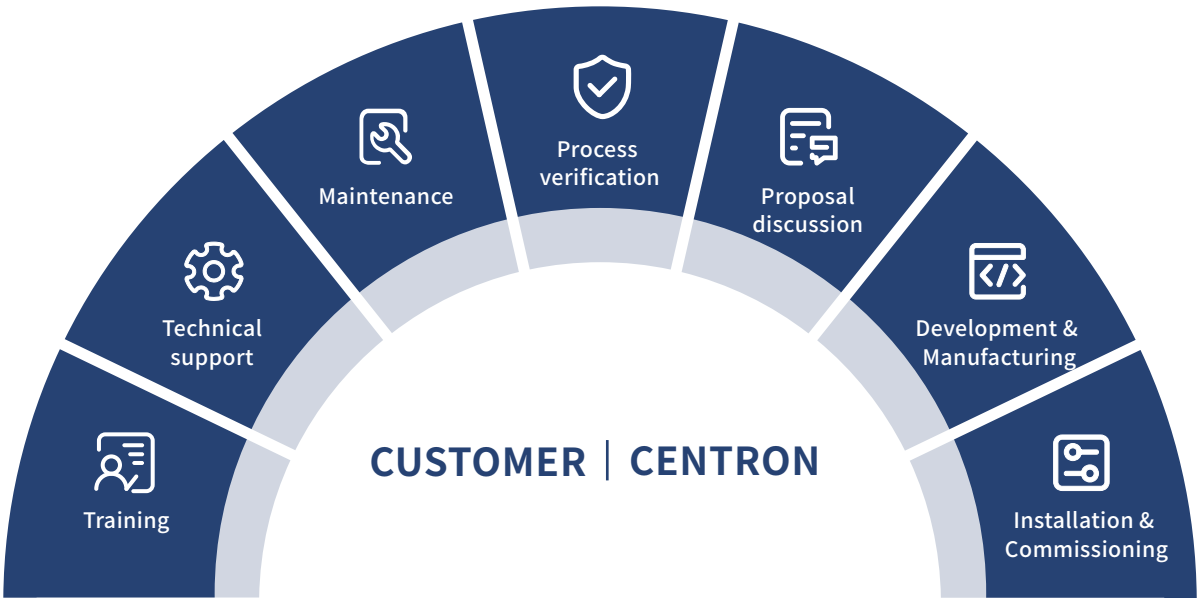
With more than 15yrs industries experience, our R&D team develops independently innovative adhesive dispensing products and system, incl. supply system, meter and control system.
- Excellent Service**

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 credible 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)

 Branch Office

 Germany

 Hungary

 **Hong Kong**

Malaysia

 Chongqing

● Overseas Service Center

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

| Cooperation Partner

长安汽车
CHANGAN



Volkswagen

NIO



DAIMLER



EVE



SUNWODA
欣旺达



理想

LISHEN
Power Your Life!

阿特斯

UAES



vitesco
TECHNOLOGIES

赣锋锂业
GanfengLithium

INOVANCE

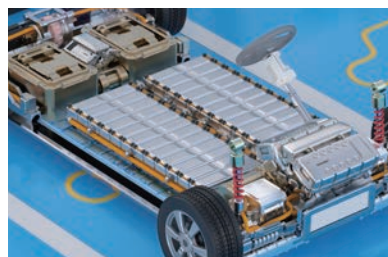
Welling
威靈電機

ADHESIVE DISPENSING SOLUTIONS

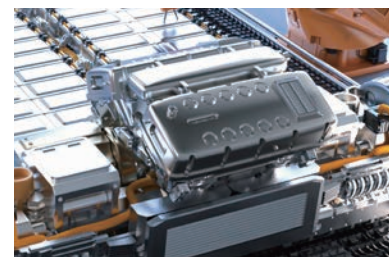
CENTRON® products can be found in a wide variety of markets. We not only provide adhesive dispensing products in dosing, dispensing, potting and trickling impregnation application but also specific solution when you face unique challenge.



Automobile



EV Battery



Electrical Motor and Controller



Energy Storage System



Automotive Parts



3C Electronics



Photostatic

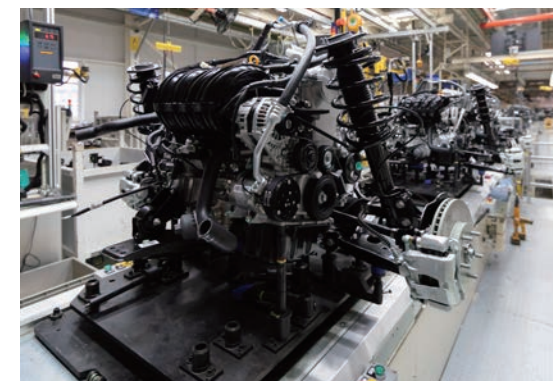


Aerospace



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

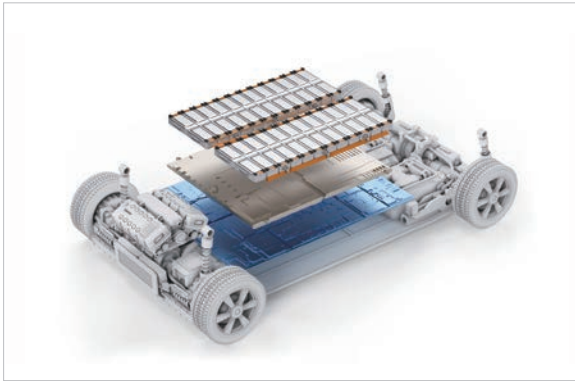
Seam sealing

Sealing

Expansion

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

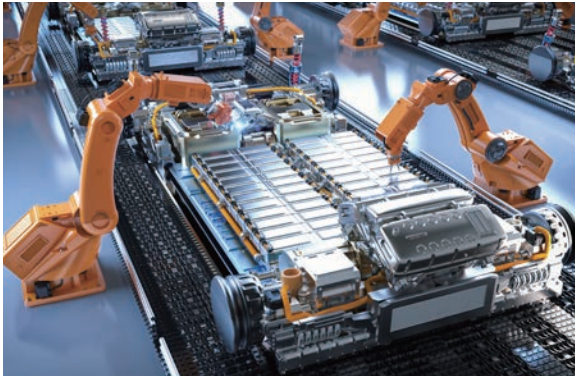
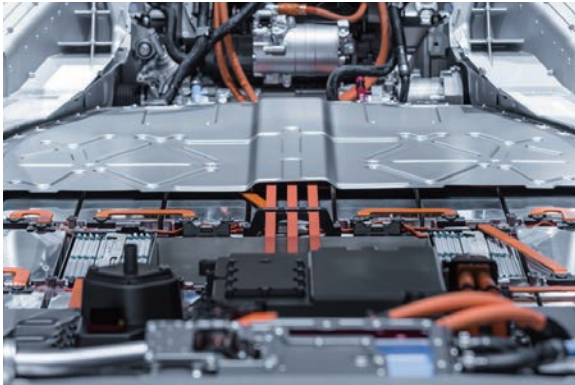
Adhesive Dispensing Solution for EV Battery



- Structure bonding
- Potting

Thermal conductive

- Cell
- Battery module
- Battery pack
- Battery tray



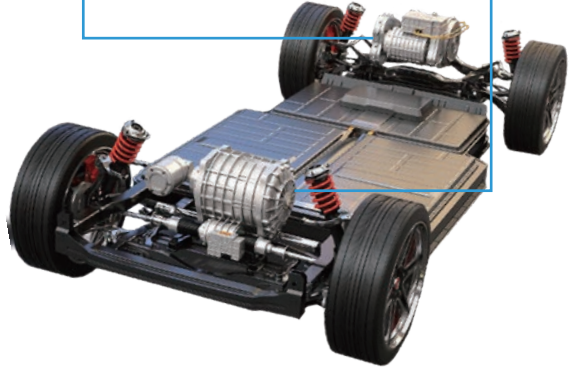
Adhesive Dispensing Solution for Electrical Motor and Controller



Electrical controller



Electrical motor

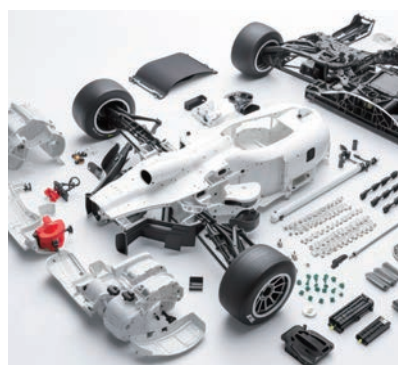


- Structure bonding
- Potting

- Sealing
- 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 Photostatic



 Structure bonding

 Potting

 Sealing

Junction box

Aluminum frame

| Adhesive dispensing Solution for Aerospace



 Structure bonding

 Sealing

Rivet and screw

Aerofoil shell

Interlayer

| 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 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 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



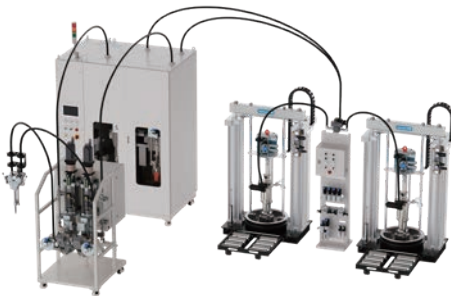
Energy storage system



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 $\geq 20,000\text{cps}$)

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

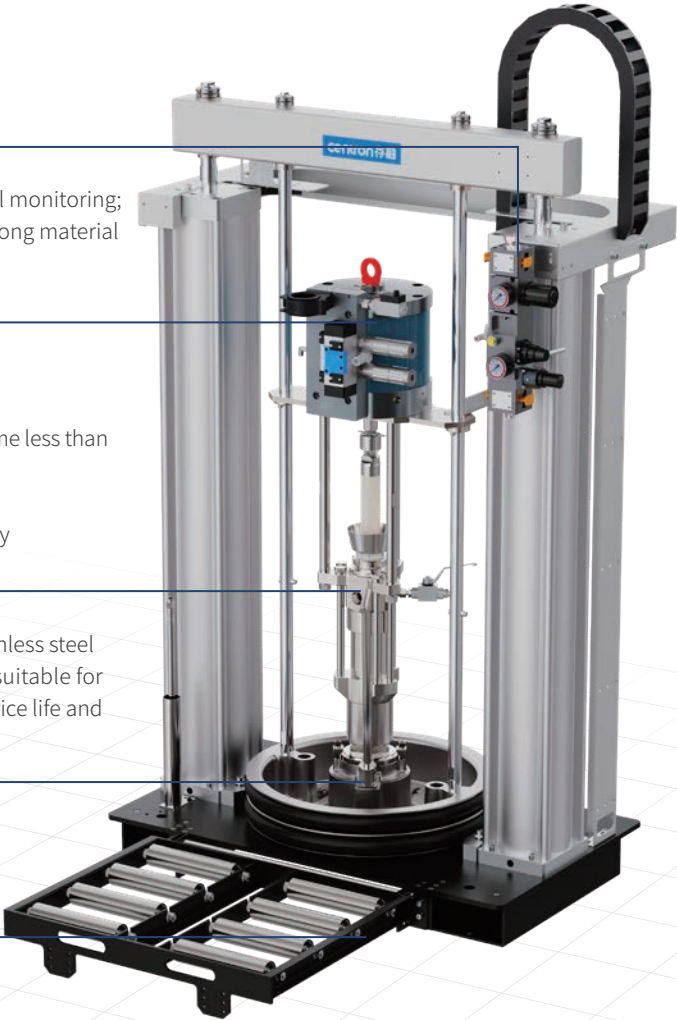
Platen Design

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

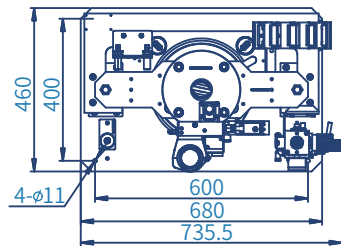
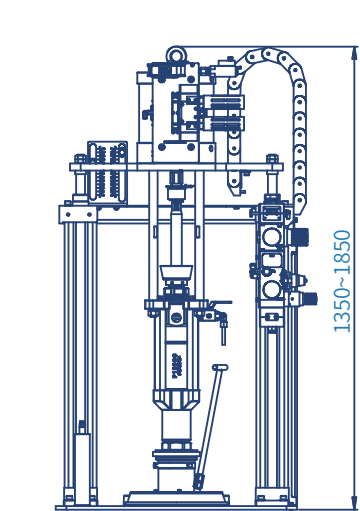
Material Table Roller

- Easy and safe drum placement

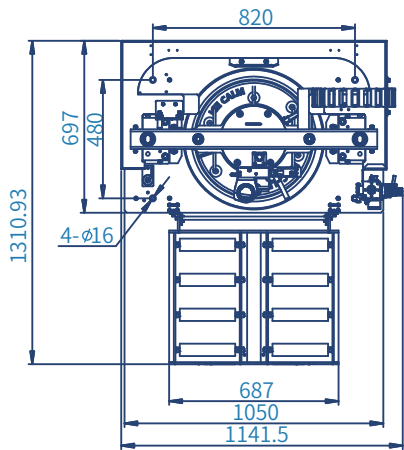
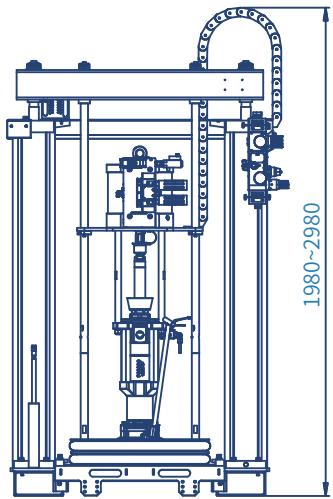
Displacement 125cc 210cc 250cc 500cc



*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	Pluggger	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 delivering 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. DuraTec wear-resistance can be selected in the above products.



Feed system



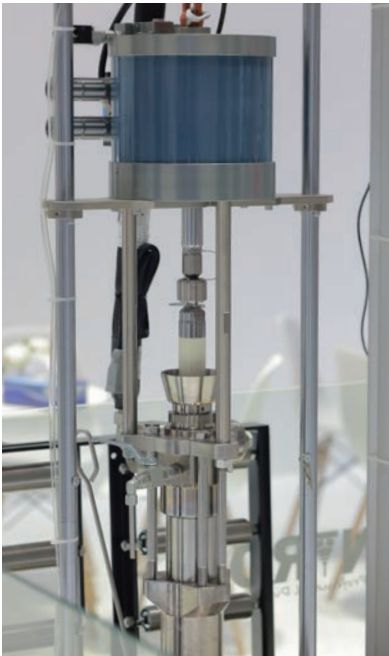
Metering system



Dispensing Module

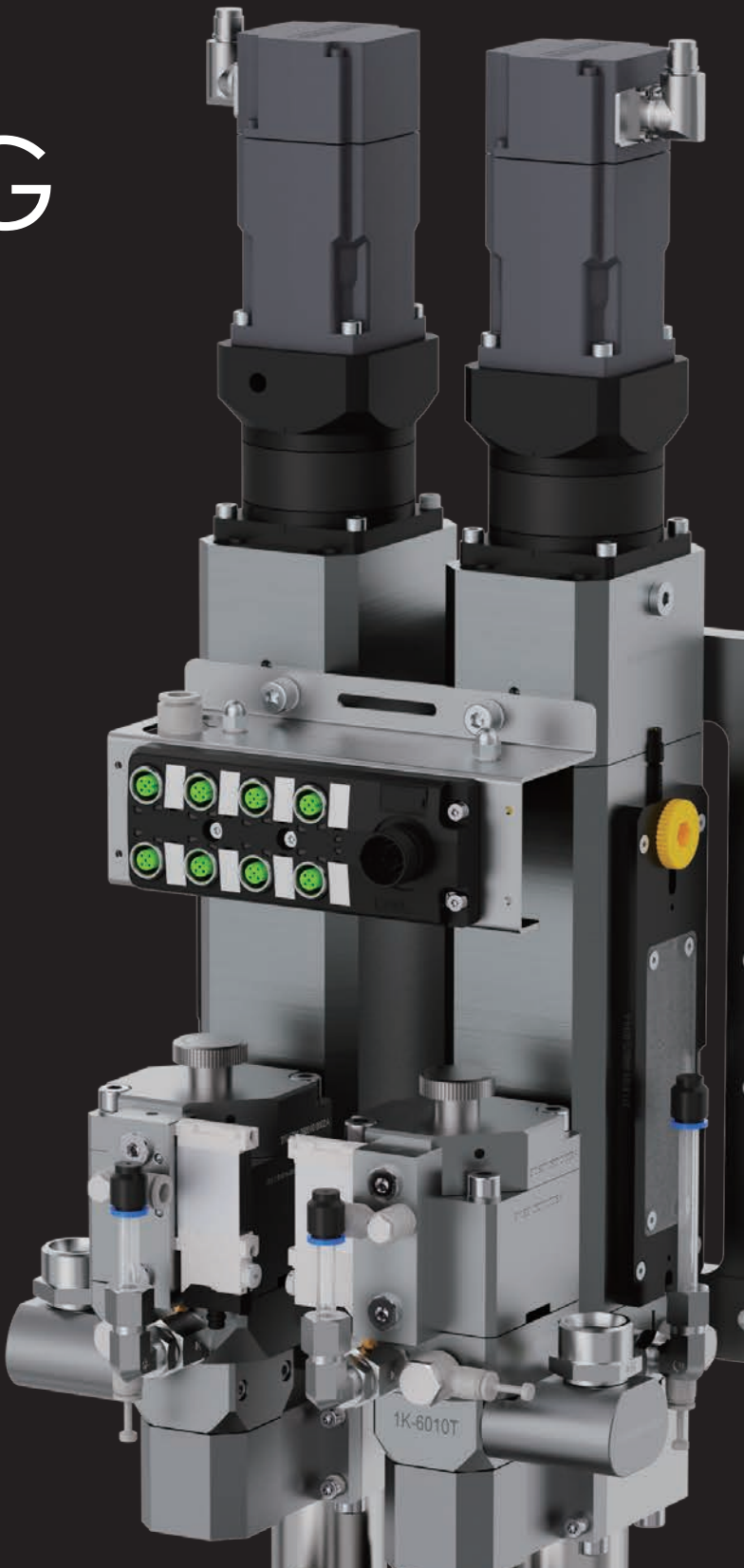
Application Materials

Epoxy	Silicone	Polyurethane	Acrylic
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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

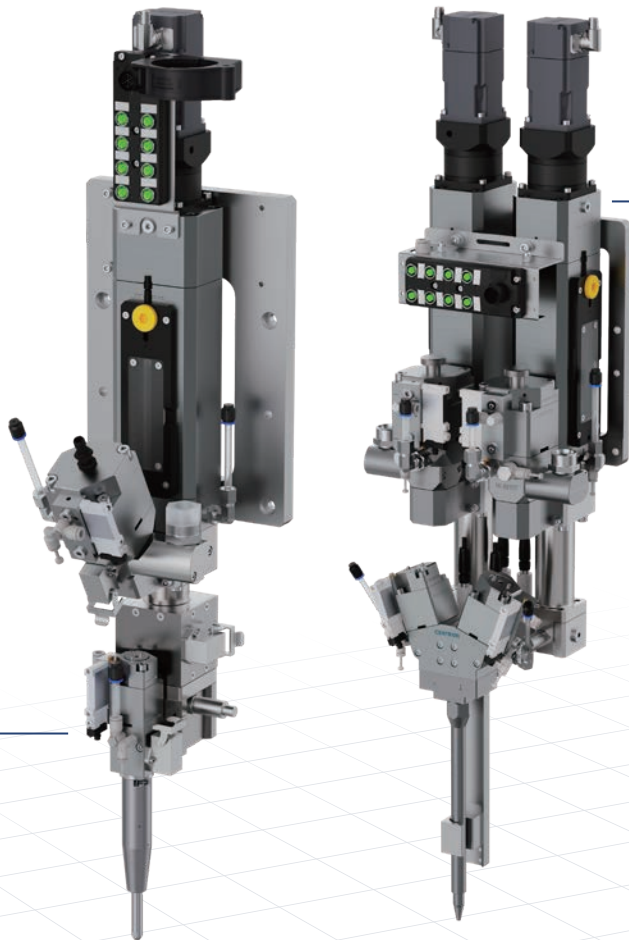
Puflo uses plunger metering principle, advanced flow path design and high precision metering. It applies to various materials and meets different market demands.

±1%
Metering Accuracy



Applications

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



One component
Variable speed
0.05 to 396cc

Two component
Variable proportion
100:100 ~ 100:10

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



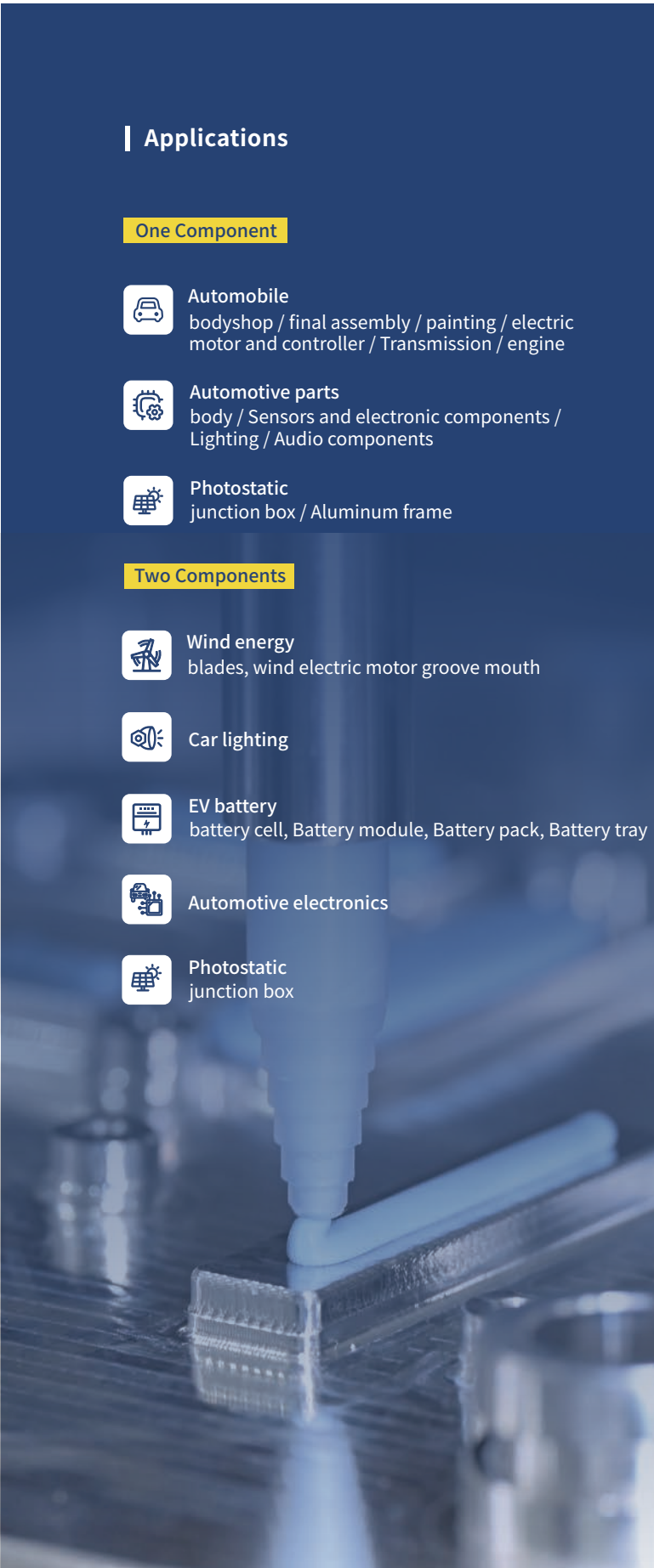
Adaptive control system to ensure higher precision metering.



Process detection:
pressure detection, torque detection, position detection



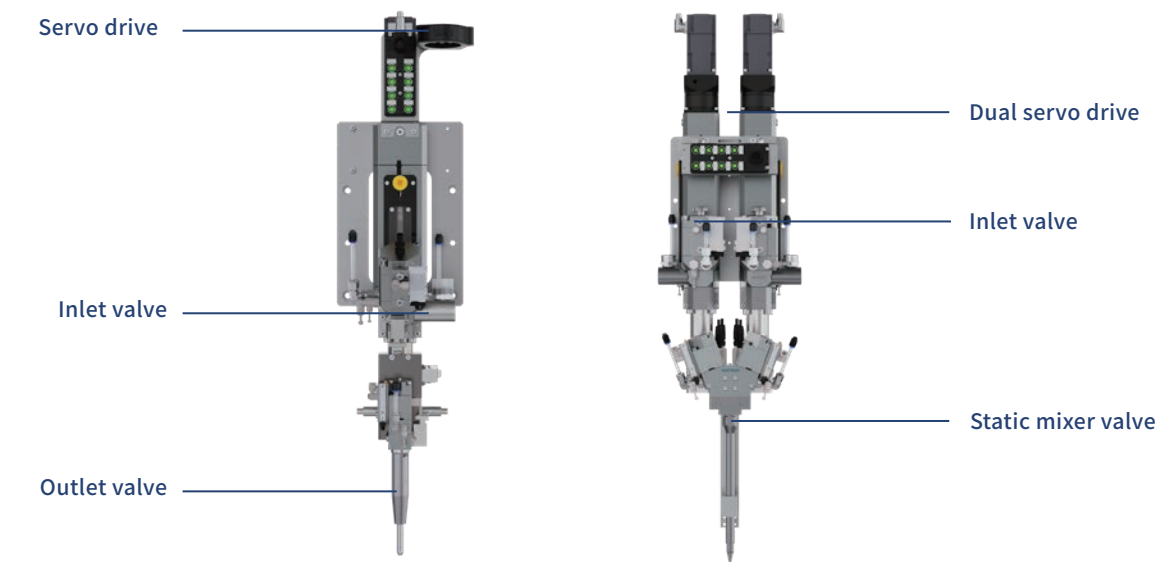
Options:
flow monitoring, heating function



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



I Type Designation



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.

±1%
Metering Accuracy

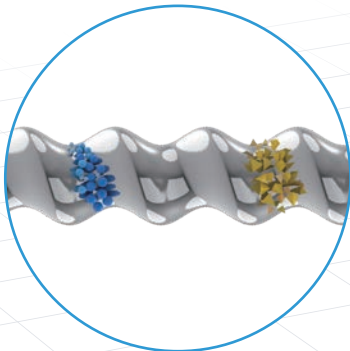
Two component
Variable ratio

One component
Variable speed



Applications

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



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

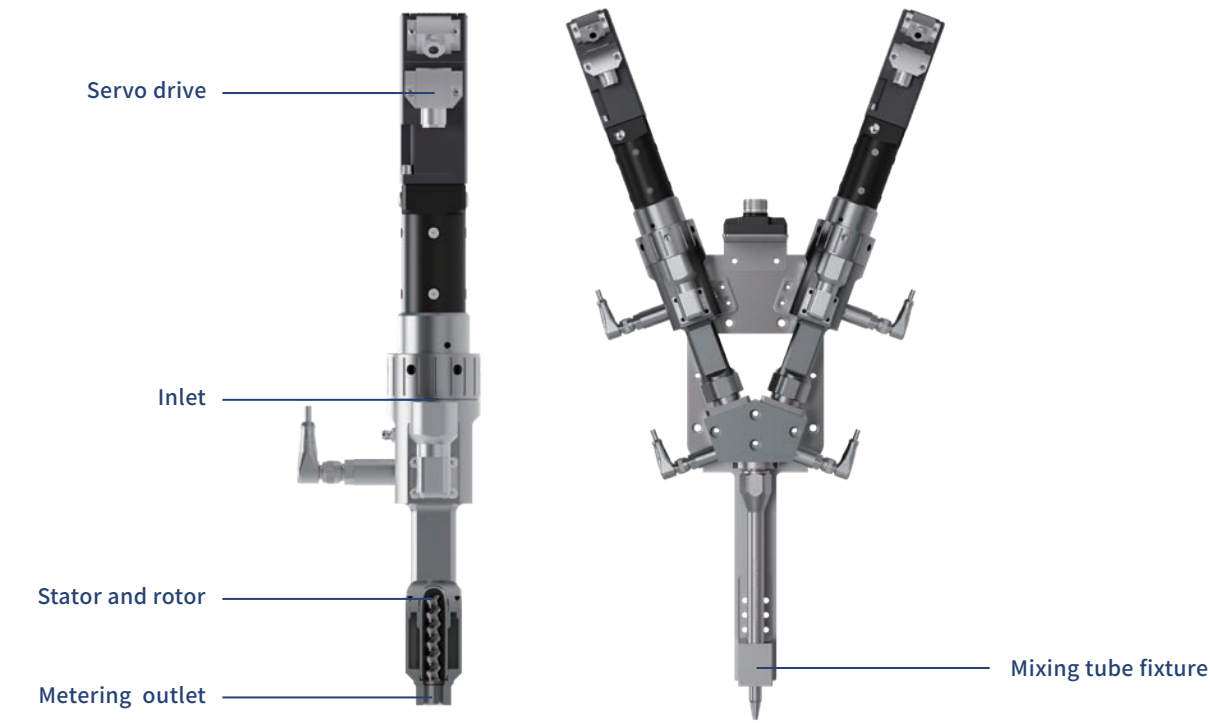


Options: heating function

Miflo (1C) Metering Technical Parameter					
Model No	MF1AL1S/L	MF1BL1S/L	MF1CL1S/L	MF1DL1S/L	MF1EL1S/L
	MF1AL2S/L	MF1BL2S/L	MF1CL2S/L	MF1DL2S/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

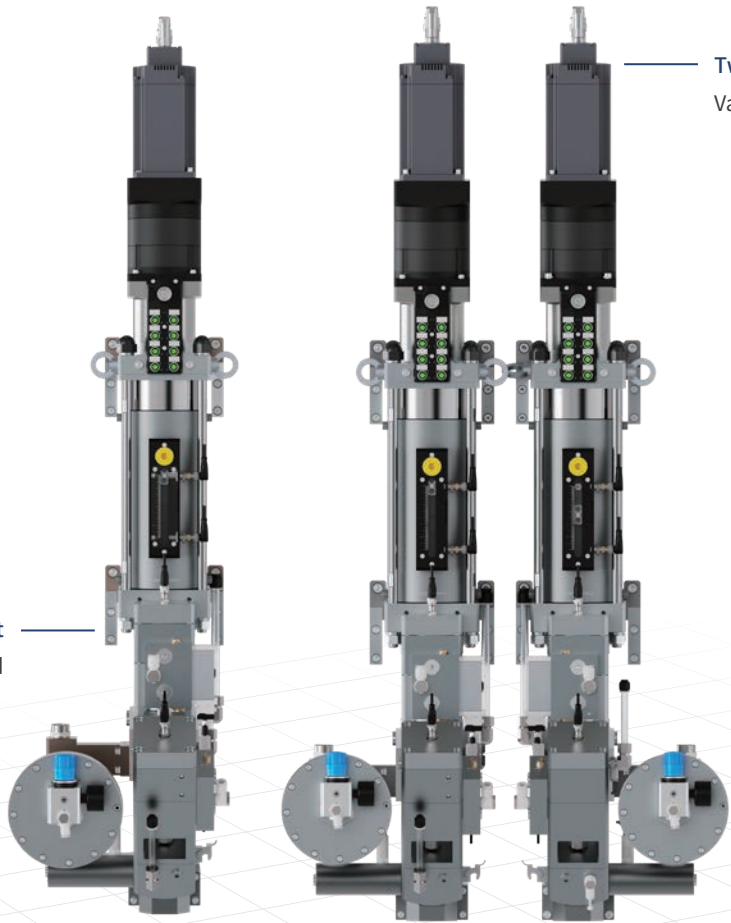
MF 1 A L 2 L - A L 2 L 2 C

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																
				D	2																
				E	5									E	3						

Enflo ENDLESS METERING SYSTEM

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

±3%
Metering Accuracy



Applications

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

*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

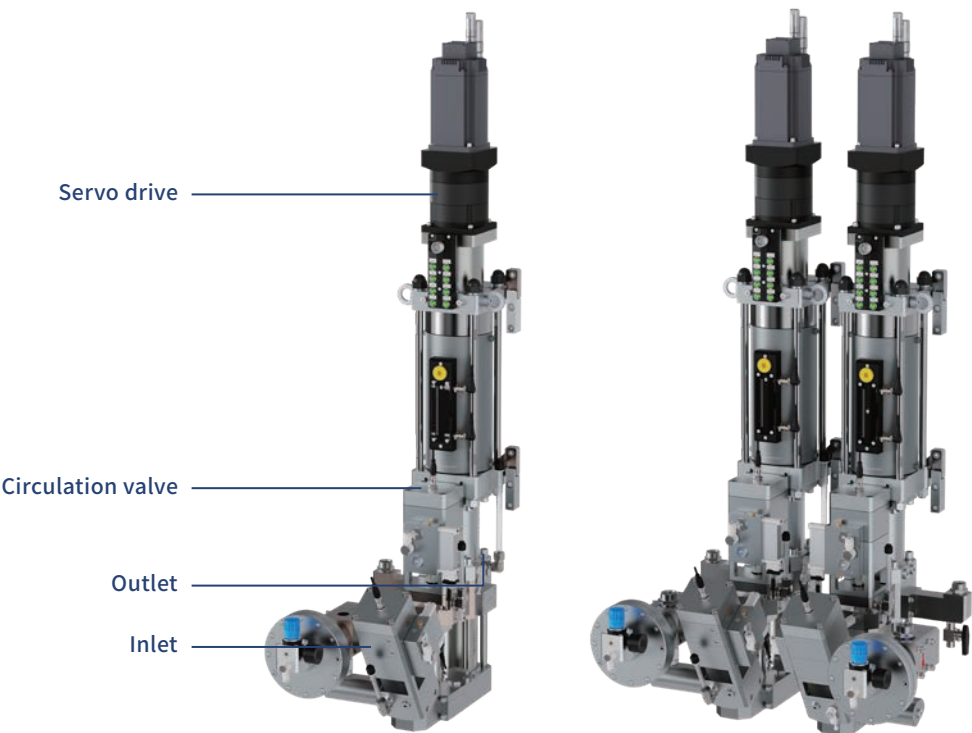


Options: flow monitoring, heating function

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						

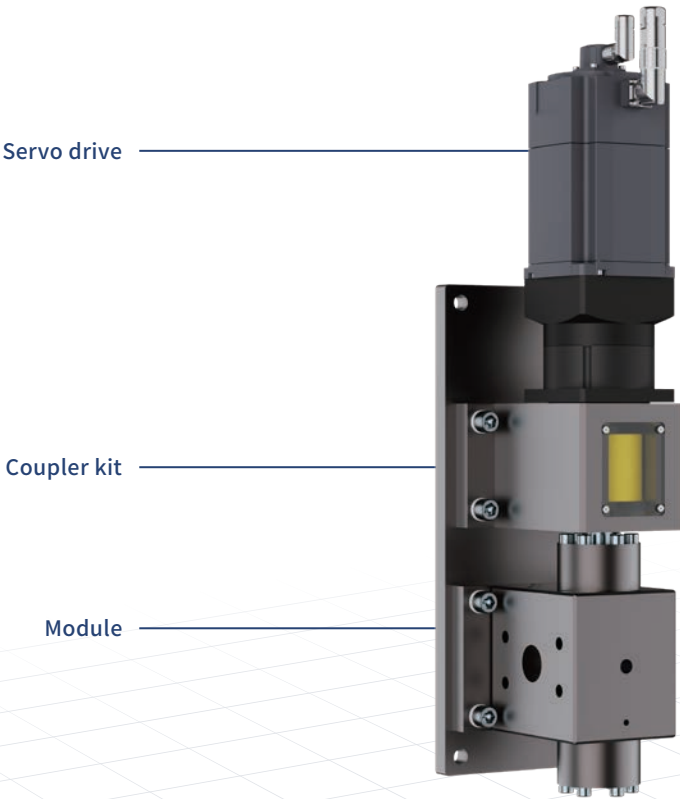
Cyflo GEAR METERING SYSTEM

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"

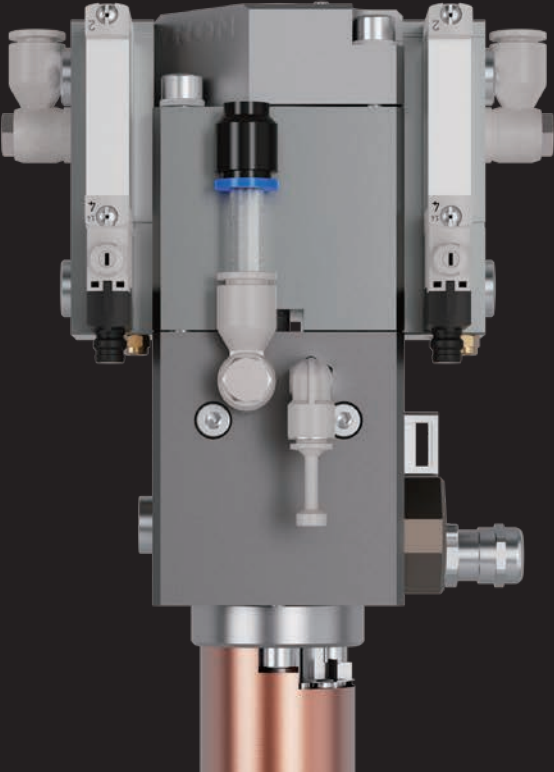
| Type Designation

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

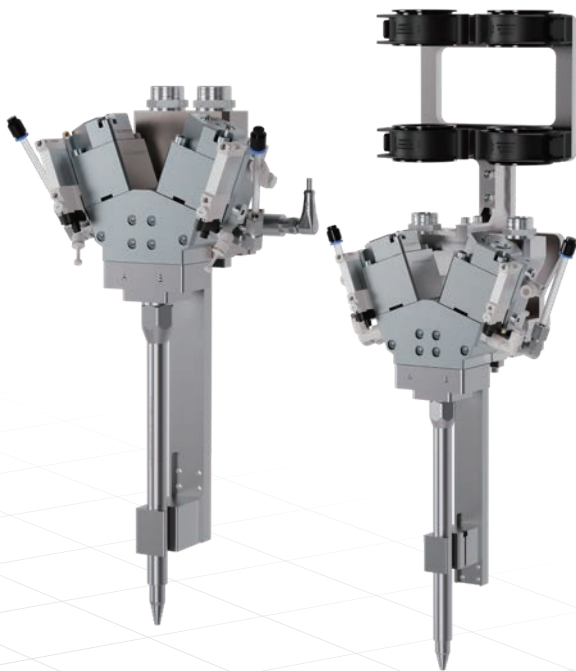
For bodyshop
application



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	

I 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 LongLife	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



I 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		
				25	25		
				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



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, Ether-
CAT, 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-ad-
aptation adjustment of metering
parameter, maintain equipment
accuracy

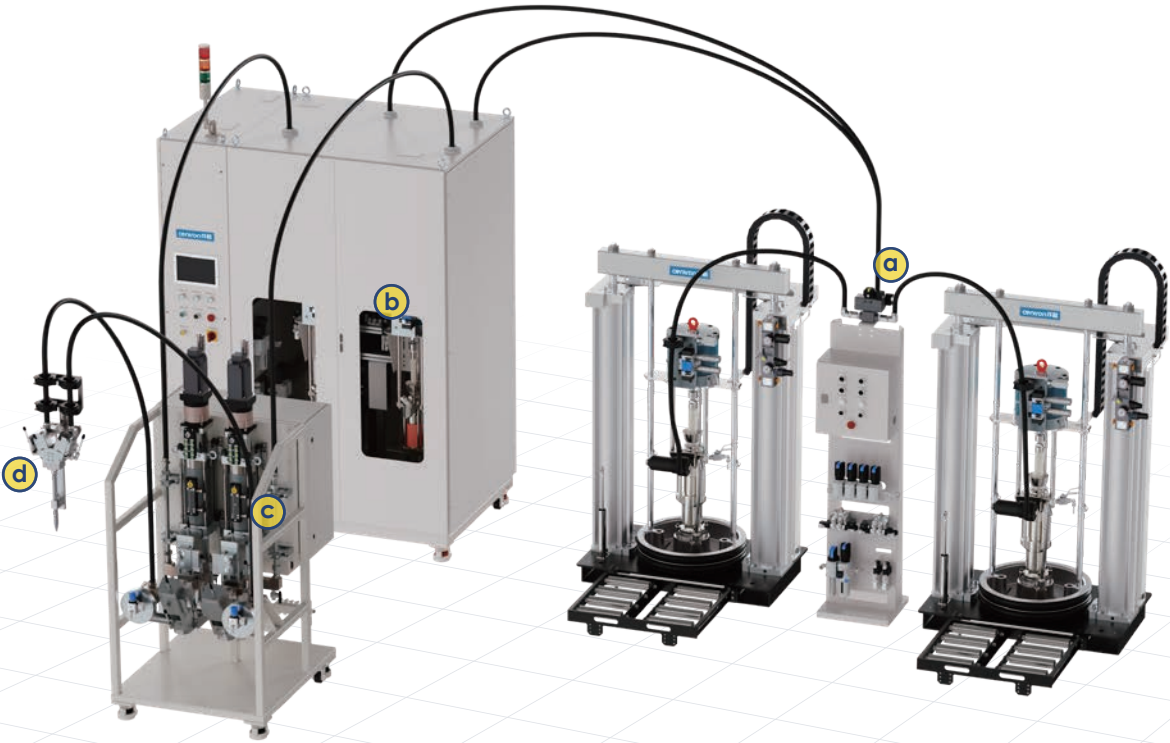
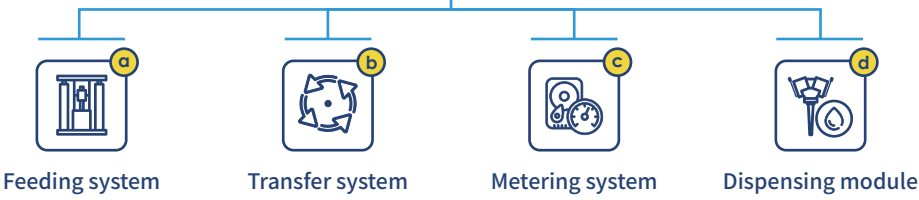


Authority management
Multiple authority management
Multiple method for log-on:
password, ID card (optional)

- 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**

CS2000 CONTROL SYSTEM



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



High Flexibility

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



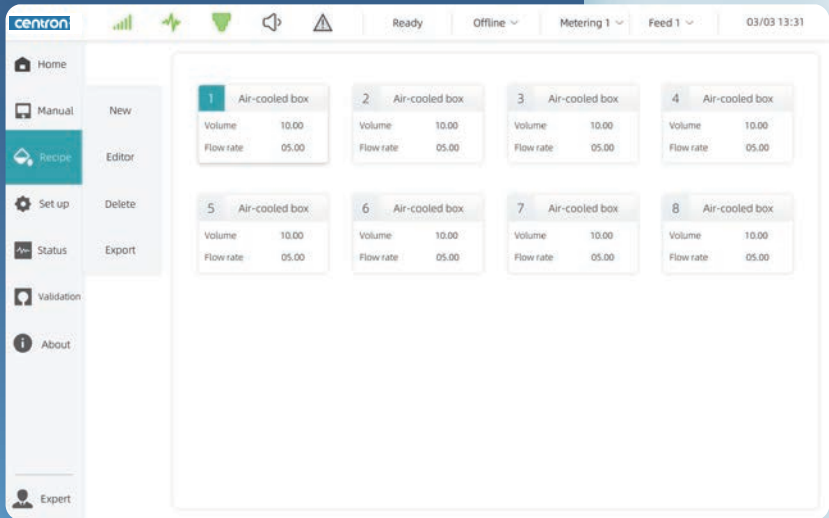
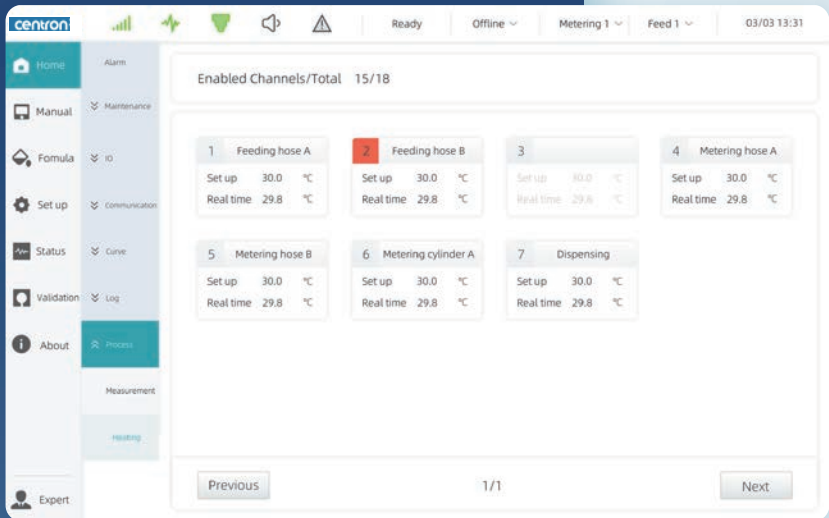
Available independent formula up to

255



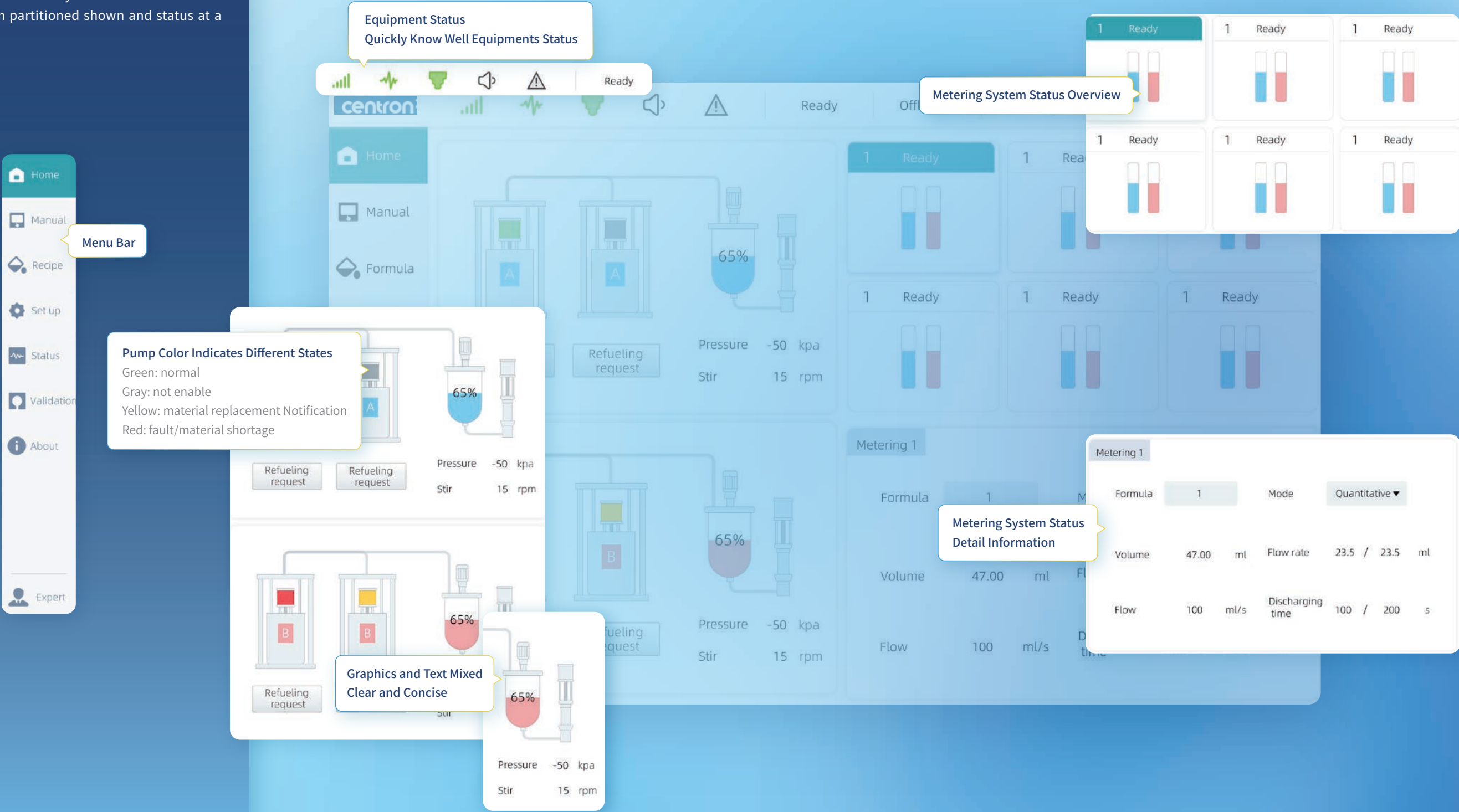
Integrated heating control up to

36 channels



User Interface Features

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

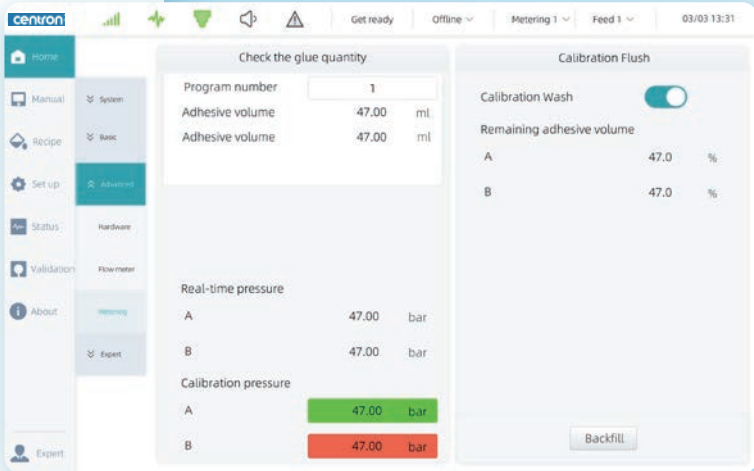


Intelligent Function

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

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

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

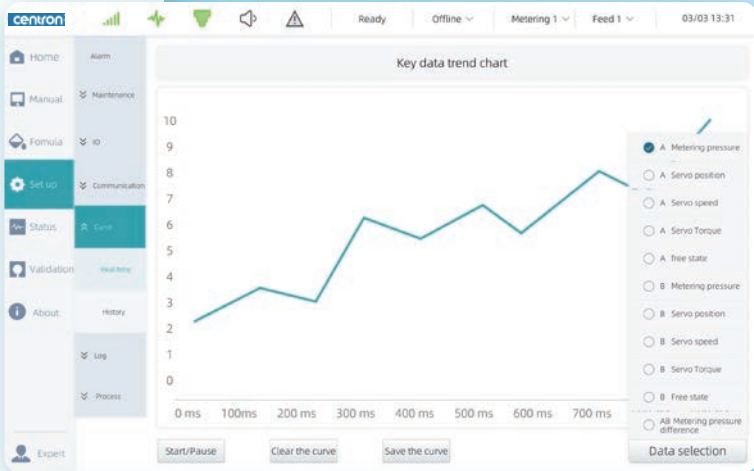


Real-time Curve

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

Data option: metering pressure, servo drive status, etc

Available for curve saving and forwarding, 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.

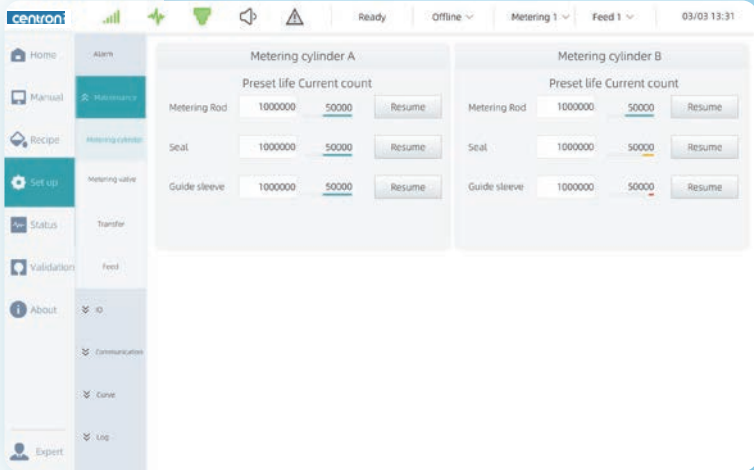
Maintenance reminder ratio setting

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

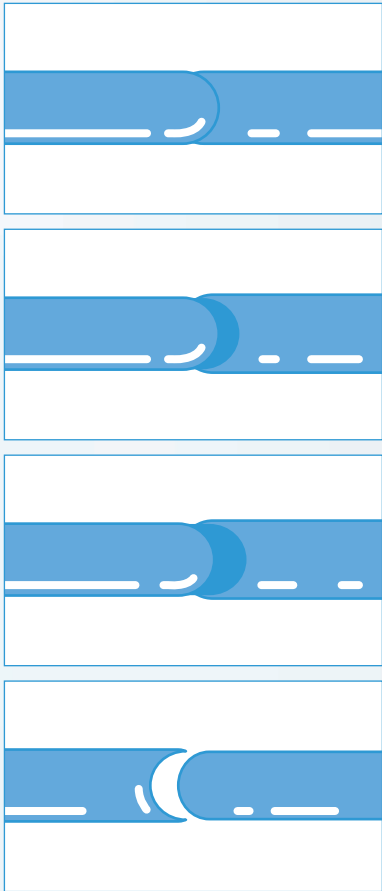
- i. Bead connected
- ii. Surface covered
- iii. Easy to find gap

Type 3

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

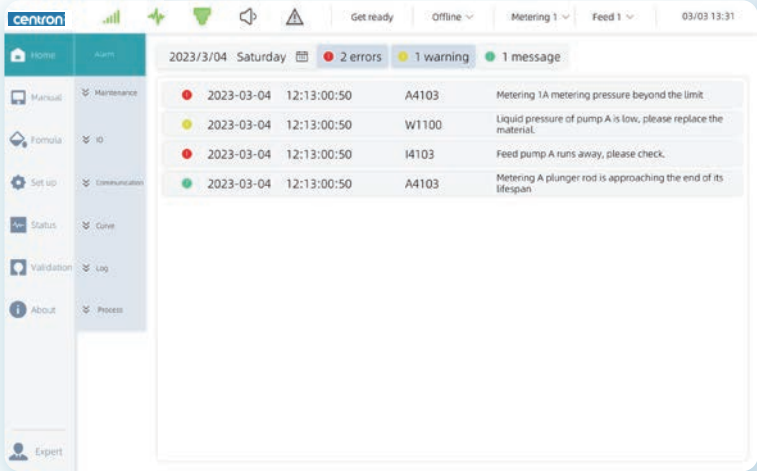
Type 4

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



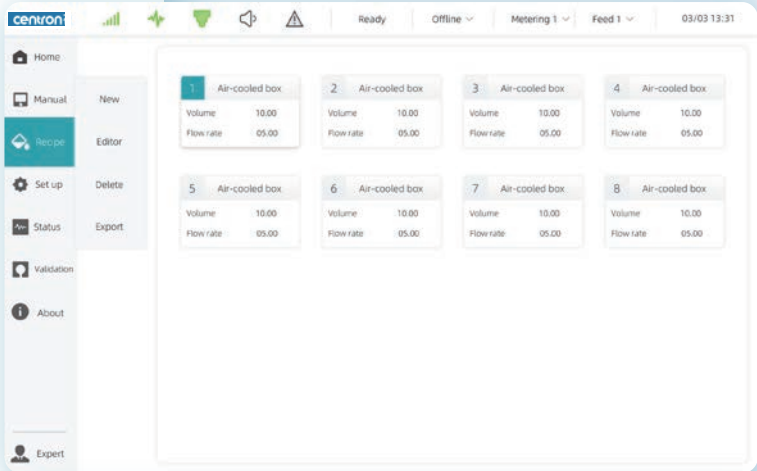
Commissioning and
Troubleshoot Information

Clear text troubleshoot information
reduce shutdown/troubleshooting time



Innovative Storage Solution

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



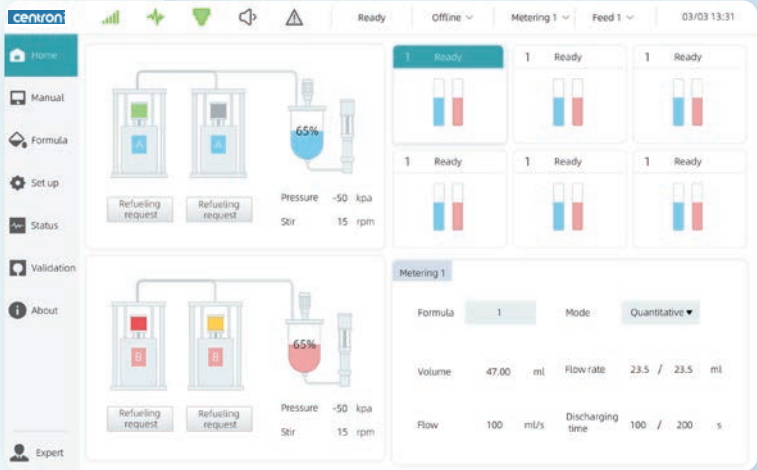
Optimized Troubleshoot

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

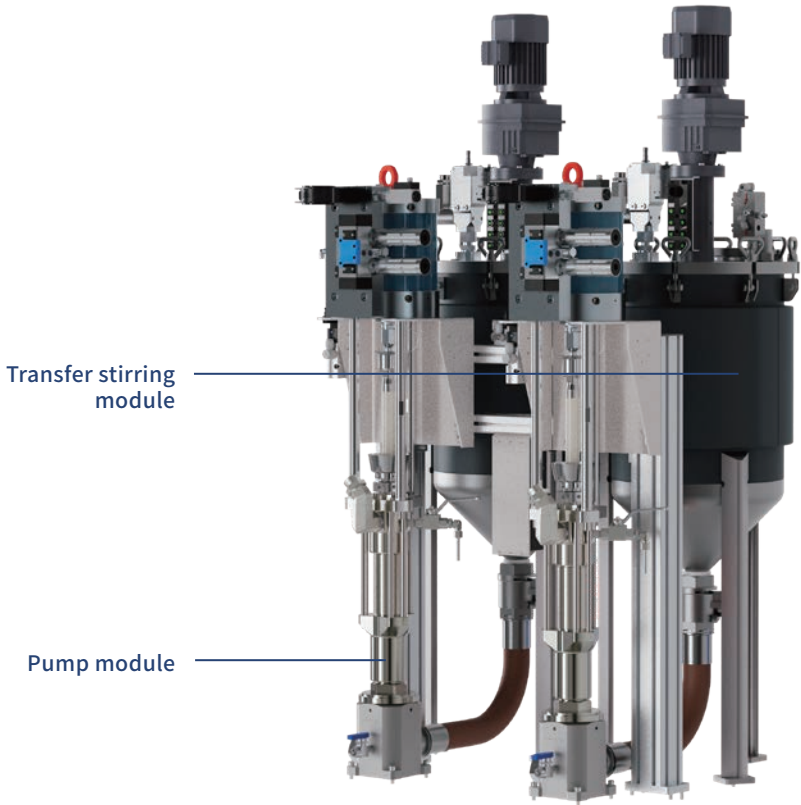
Centron transfer system provides material pretreatment in order to delivery more stable material, enhance metering system stability and enable convenient replacement of material barrels, without disrupting production.

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		

FLOWMETER

Centron offers multiple flowmeter to meet different requirements.

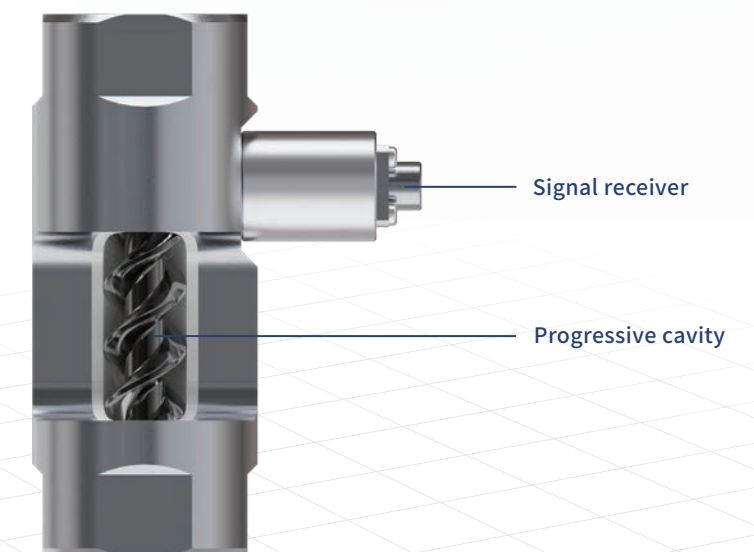
Flowmeter measures the fluid flow of hose to make whole system more precision operate. It is able to measure instantaneous flow rate as well as the total amount of fluid in a certain period time.

| Application Area

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

| Features

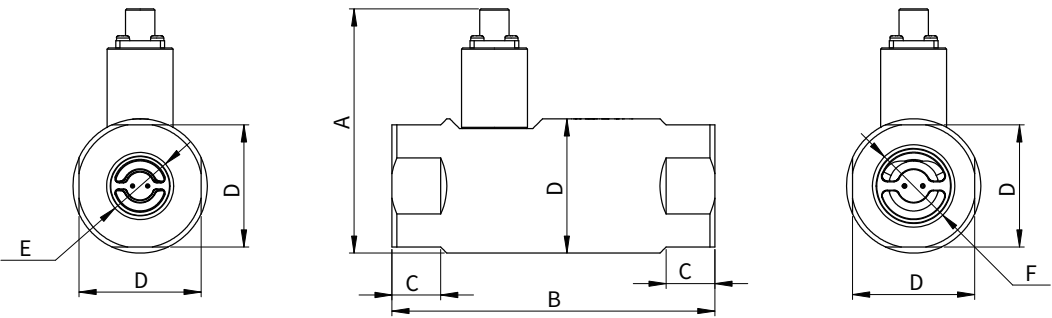
- One component flowmeter
- Low pressure loss of inlet
- Apply to big particle filling material
- Simple K coefficient calibration
- No obstruction during flow monitoring



ANNEX

FLOWMETER
HOSE

07



	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		

