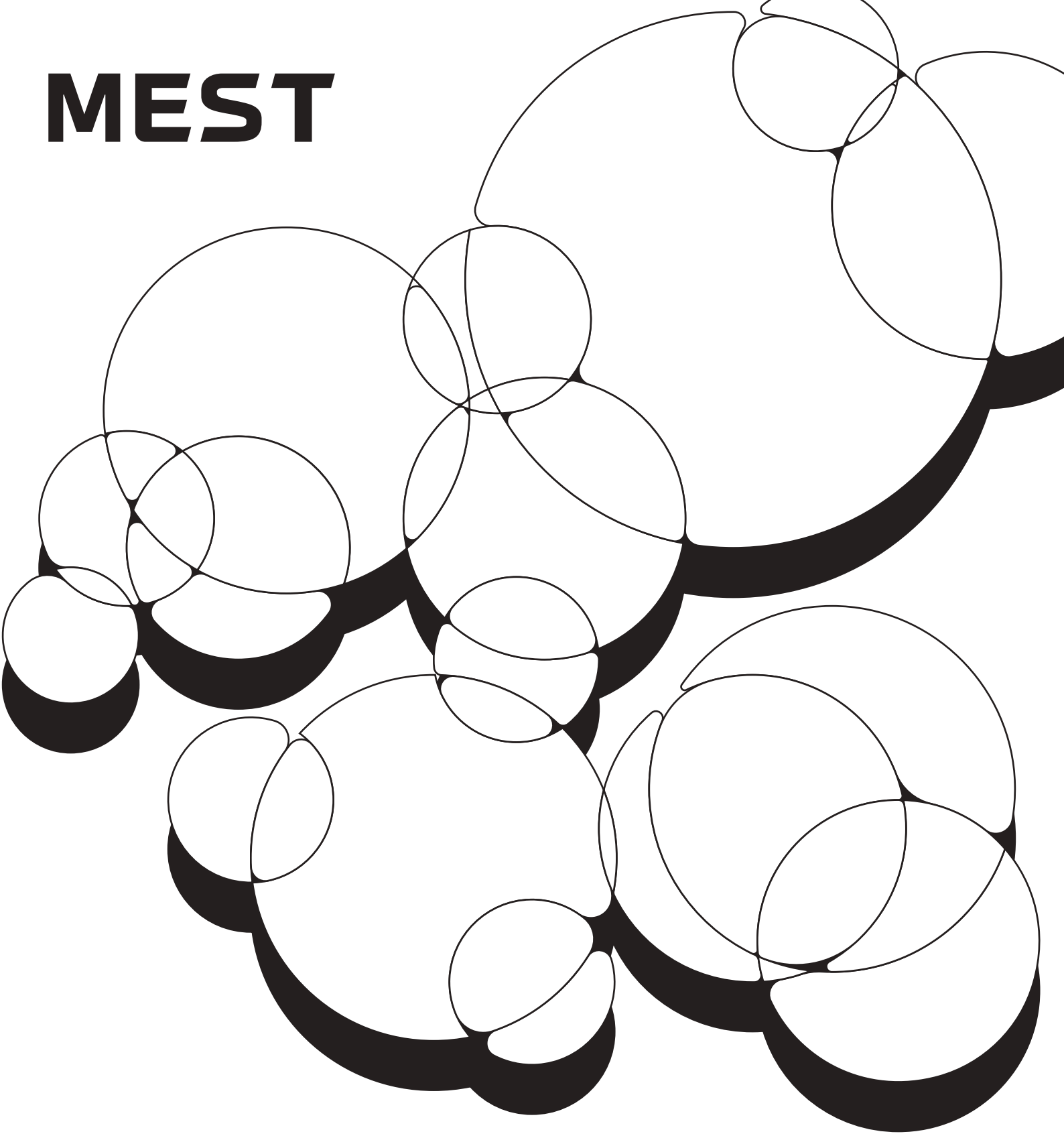
MEST



SMART DISPENSING

MEST

SMART DISPENSING

The Company: Leading China's "Smart" Manufacturing

MEST, M from "Mechanical", E from "Electronics", S from "Software", T from "Technology", The name comes from the founder's original heart when he came into contact with the automation of mechanical design when he was a student. Mechanical engineering is rigorous, efficient and romantic, just like the inventors Wright brothers maintained a lifelong love for mechanical manufacturing, and invented the world's first successful airplane with genius's creativity, turning the flying dream of mankind from a myth to a reality.

The local source of Chinese manufacturing is inseparable from more and more manufacturing enterprises, especially those enterprises that have the ability to carry out independent innovation and research and development of key technologies. MEST also hopes to take the love of mechanical design, the pride of being a Chinese enterprise, and the pursuit of the intelligent wave to help China's "intelligent" manufacturing to a bright future!

Vision

Intelligent exploration promotes changes in the dispensing industry

Mission

Committed to becoming a manufacturing enterprise that China is proud of

Values

sincerity, diligence, innovation, unity, persistence

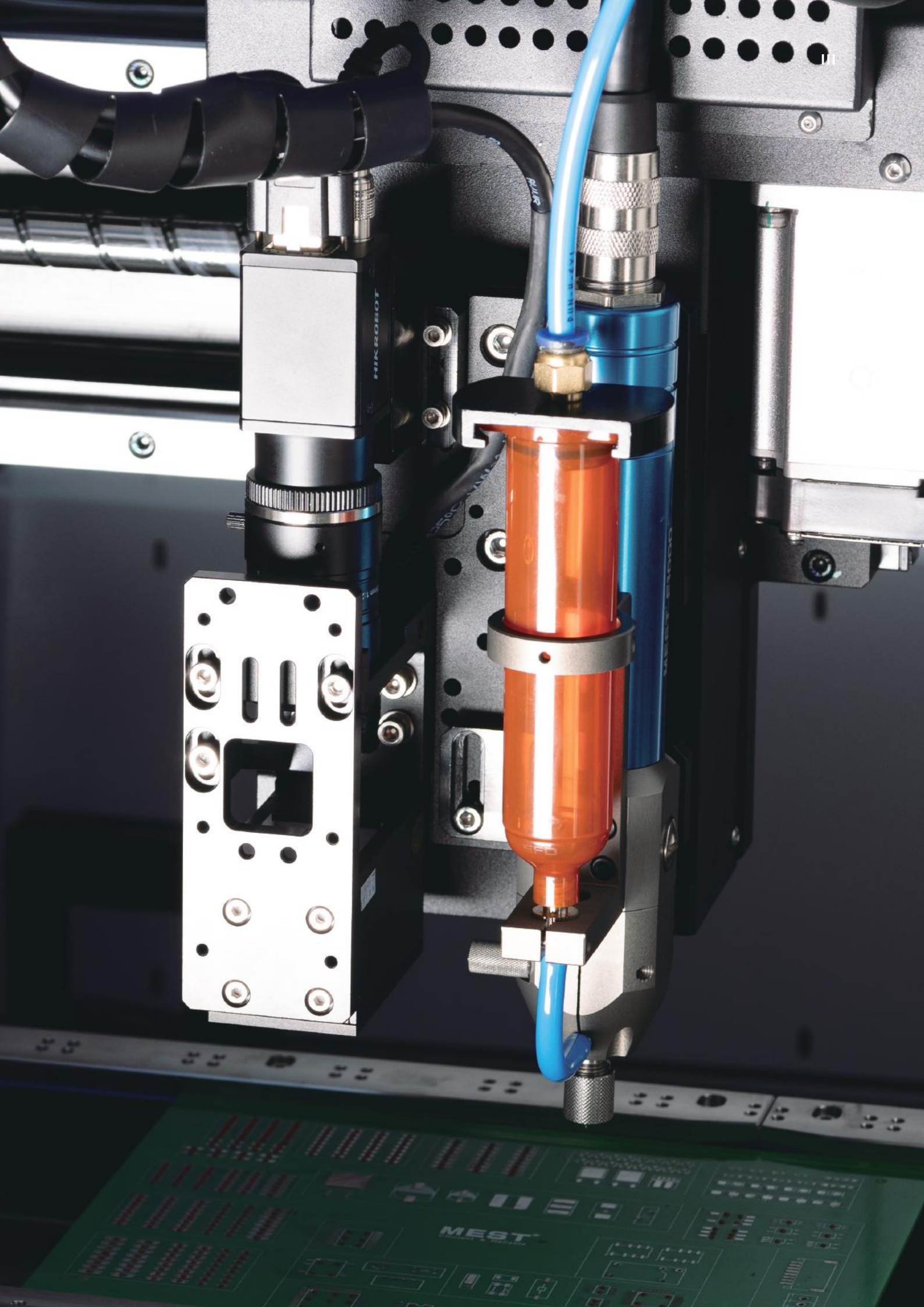
Concept

Provide better products and services and create value for society

公司特写：做首屈一指的中国“智”造

MEST 迈伺特，M 来自“Mechanical”（机械），E 来自“ Electronics ”（电子），S 来自“Software ”（软件），T 来自“Technology”（技术），这个命名源于迈伺特创始人学生时代接触到机械设计自动化时的初心，机械工程是严谨、高效而浪漫的，就像发明家莱特兄弟对机械制造保持了一生的热爱，用天才的创造力，发明了世界上第一架成功的飞机，把人类过去的飞天梦想从神话变成了现实。

中国制造的本土源头，离不开越来越多的制造业企业，尤其是那些有能力进行关键技术自主创新研发的企业。MEST 迈伺特也希望带着对机械设计的热爱、对身为中国企业的自豪、对智能化浪潮的追逐，助力中国“智”造迈向光明的未来！


MEST

MEST Brief Introduction

MEST is a leading company in the field of visual robotics in China. We are known for our innovative and creative capabilities, as well as our extensive patent portfolio. Our Visual Dispensing System has been successfully applied in various industries, including SMT, aerospace, automotive manufacturing, photovoltaics, military industry, home appliances, and daily chemical light industry.

Our Visual UV printer, a product of our strong technical accumulation, has received positive feedback from users in various industries, including gift processing, signage, decoration, glassworks, exhibitions, hardboard packaging, leather, and textile industries.

With our commitment to innovation and quality, we strive to provide our customers with the most advanced and reliable visual automation solutions. Our global presence and extensive experience allow us to serve customers worldwide, helping them achieve greater efficiency and accuracy in their production processes.

Choose MEST for your visual automation needs and experience the power of innovation and precision.

迈伺特简介

MEST 迈伺特是中国精密流体应用制造商，成立于 2014 年，凭借自主研发的多年经验和严格的质量保障，MEST 迈伺特为客户提供优质的精密点胶、粘接、表面涂覆、定点灌封等一站式解决方案。应用行业遍布汽车电子、光伏、消费电子、安防监控、半导体、航空航天、军工和医疗器械等众多领域。

MEST 迈伺特拥有一支经验丰富、技术精湛的研发团队，已获得 100+ 专利。本着“以质量求生存，以信誉求发展”的经营理念，MEST 迈伺特越来越受到国内外一线品牌和行业客户的认可。

目前，MEST 迈伺特正在杭州市钱塘区建造全球制造总部，建筑面积超 3 万㎡。每年研发投入占营收比超 10%。生产基地集研发、制造、销售、服务于一体，以满足日益增长的市场需求。

30000+

square meters R&D and production base

5000+
dispensing solutions

100+
R&D patents


MEST
SMART DISPENSING
F910

PART A

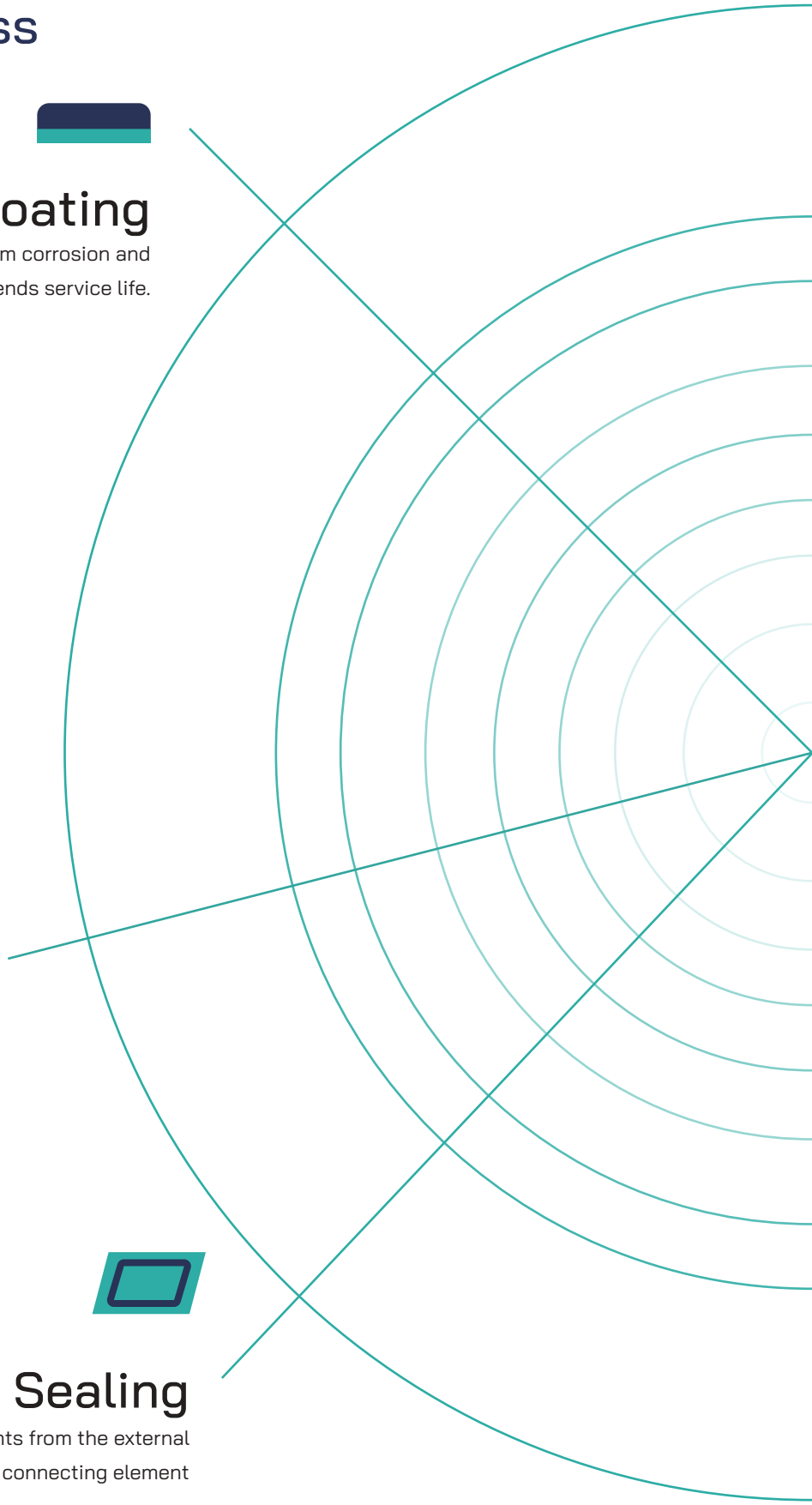
PART B

PART C

PART D

PART E

Radiation diagram of dispensing process



Coating

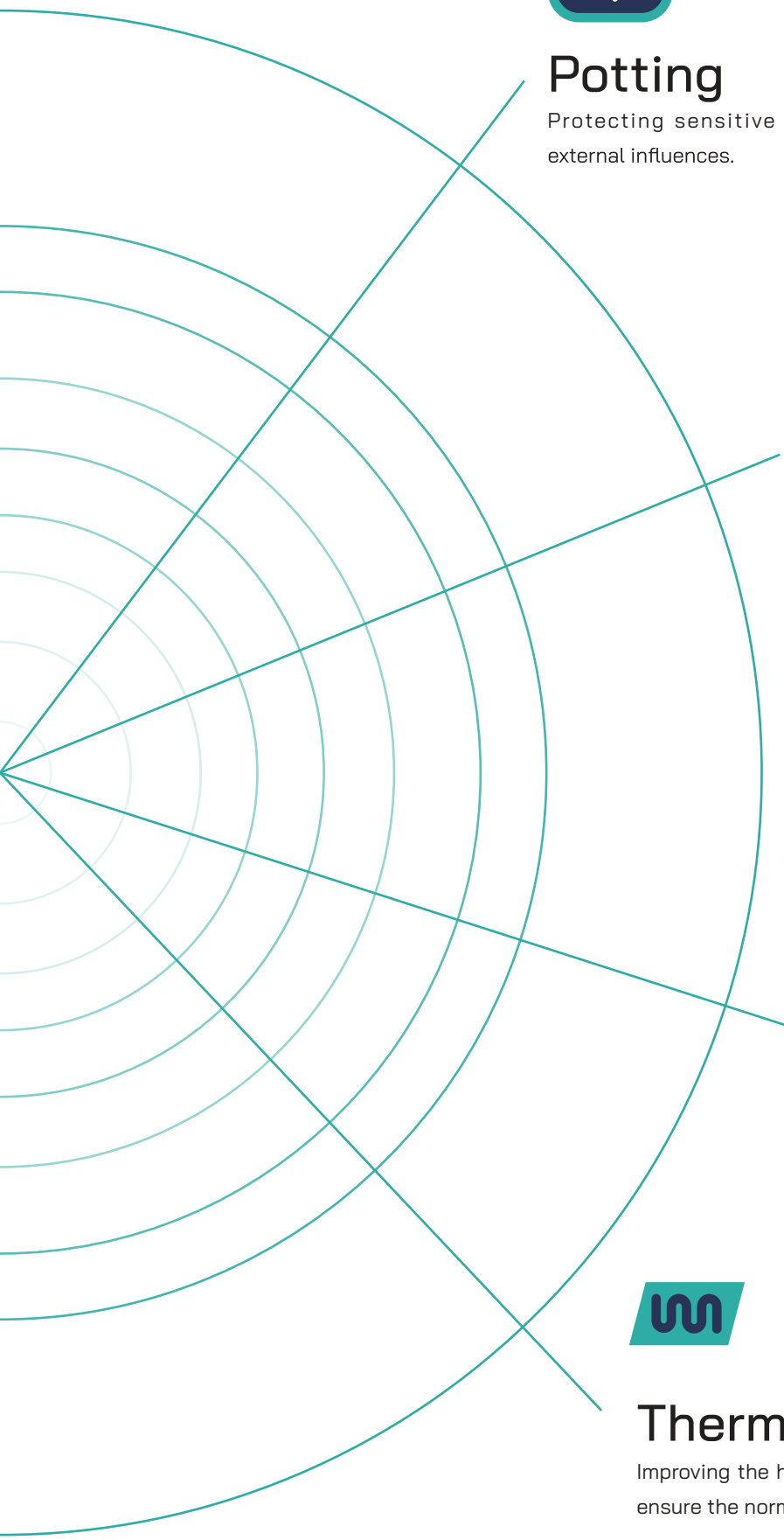
Protecting materials from corrosion and extends service life.

Vacuum bonding

Using a vacuum environment to bond materials.

Sealing

Protecting sensitive components from the external environment serves as a connecting element



Potting

Protecting sensitive materials from external influences.

Bonding

Connecting two or more parts tightly.

Insulation

Achieving precise coating and sealing on insulation.

Thermal conductivity

Improving the heat dissipation performance of the material and ensure the normal operation of the product effectively.

Material preparation &Feeding system-Pail feeding system MEST-G180

PRODUCT DESCRIPTION:

The G180 Pail feeding system independently developed and produced by Hangzhou MEST Technology Co., Ltd. is used to process various non-abrasive single and two-component potting materials. The Pail feeding system can supply glue continuously, and the internal integrated intelligent control system can monitor the system status in real time. It can specifically used in automotive electronics, photovoltaics, consumer electronics, home appliances, aviation, maritime, military and medical equipment industries, such as ECUs, steering and brake control systems, case seals, etc. In addition, non-abrasive single- and two-component thermal conductive silicone grease and structural adhesives are more suitable.

Product advantages:

- The integrated reciprocating plunger pump ensures reliable and continuous material supply, and the material is always delivered during the pump's rising and falling strokes.
- The vacuum pressure plate is made of polypropylene (PP) material, which can ensure clean and bubble-free docking.
- After emptying the raw material barrel, the vacuum pressure plate can be discarded directly, so the new material will not be contaminated by the dried residual material, and the material replacement is quick and efficient.
- The UI interaction is extremely user-friendly, the system is easy to operate, and the operation is safe and reliable.

MEST-G180	
Two-component size (mm)	1650(W)*700(D)*1650(H)
Single component size (mm)	1000(W)*700(D)*1650(H)
Two-component weight (kg)	≈ 500
Single component weight (kg)	≈ 300
Control system	PLC + touch screen + control software independently developed by MEST
Pressure barrel specifications (Gal)	5
Glue discharging method	plunger pump
Glue feeding method	direct connection to raw material barrel
Applicable viscosity range (cps)	20000-1000000
Liquid detection function	0-100%
Power (W)	600
Input power	AC220V±10% 50Hz
Gas source pressure (Mpa)	⩾ 0.55
External port	I/O control
Applicable ambient temperature (°C)	0-50

Material preparation &Feeding system-Pail feeding system MEST-G280

PRODUCT DESCRIPTION:

The G280 Pail feeding system independently developed and produced by MEST is used to process high-viscosity abrasive and non-abrasive single- and two-component heat dissipation and sealing materials. The Pail feeding system can automatically degas the glue on the surface. Double piston feeding pump can provide glue continuously. It can be specifically used in industries such as automotive electronics, photovoltaics, consumer electronics, aerospace and navigation, military industry and medical equipment. For example, ECU, steering and brake control systems, circuit board heat dissipation, etc. In addition, it is more suitable for abrasive and non-abrasive single- and two-component thermal conductive silicone grease and structural glue and adhesives.

Product advantages:

- Process reliability: The vacuum platen used for bubble-free docking has higher process reliability due to its automatic pressure adjustment and vacuum control.
- Durability: The sturdy and durable double-piston pump system brings longer service life.
- Non-stop: The equipment can supply materials without stopping, and glue can still be added normally during the working process.
- Humanization: The UI interaction is extremely user-friendly and can be used in a variety of complex scenarios.

MEST-G280	
Two-component size (mm)	1650(W)*700(D)*1650(H)
Single component size (mm)	1000(W)*700(D)*1650(H)
Two-component weight (kg)	≈ 500
Single component weight (kg)	≈ 300
Control system	PLC + touch screen + control software independently developed by MEST
Pressure barrel specifications (Gal)	5
Glue discharging method	Piston pump
Glue feeding method	direct connection to raw material barrel
stable system	Electronic PID control
Applicable viscosity range (cps)	100000-2000000+
Liquid detection function	0-100%
Power (W)	600
Input power	AC220V±10% 50Hz
Gas source pressure (Mpa)	⩾ 0.55
External port	I/O control
Applicable ambient temperature (°C)	0-50

Systems for material preparation & feeding MEST-G380TPC

PRODUCT DESCRIPTION:

The G380TPC Systems for self-leveling materials independently developed and produced by MEST is used to handle sensitive materials with a high viscosity of 50000-100000 that will react with moisture or need to be prepared in a vacuum. It has functions such as heating, stirring, vacuuming and other glue pretreatment functions. It can be specifically used in industries such as automotive electronics, photovoltaics, consumer electronics, household appliances, aerospace and navigation, deep water, military industry and medical equipment. For example, transformers, ignition coils, controllers, electronic components, chip packaging, etc. In addition, it is suitable for single- and two-component epoxy resin, polyurethane, silicone and other fluids.

Product advantages:

- Vacuum feeding: the glue is in a vacuum environment throughout the process, and the maximum vacuum can reach 2mbar.
- Non-stop: The equipment can supply materials without stopping, and glue can still be added normally during the working process.
- Modularization: All components are modular in design, allowing users to quickly add or remove equipment functions and facilitate maintenance.
- Humanization: UI interaction is extremely user-friendly and can be used in a variety of complex scenarios.
- Durability: The specially designed piston pump structure has a long service life and is very suitable for glue with fillers.

MEST-G380TPC	
Overall size (mm)	1800(W)*850(D)*1900(H)
Weight (kg)	≈ 500
Control system	PLC + touch screen + control software independently developed by MEST
Pressure paill specifications (L)	80
Pressure barrel material	304
Glue discharging method	plunger pump
Glue feeding method	platen pump/pretreatment feed
Applicable viscosity range (cps)	50000-100000
Vacuum degree (mbar)	⩽ 2
Heating temperature (℃)	25-100
Power (W)	5000
Input power	AC380V±10% 50Hz
Gas source pressure (Mpa)	⩾ 0.55
Applicable ambient temperature (℃)	0-50

Material preparation & Feeding system-Systems for self-leveling materials MEST-G380

PRODUCT DESCRIPTION:

The G380 Systems for self-leveling materials independently developed and produced by MEST is used to process sensitive materials that react with moisture or need to be prepared in a vacuum. It has glue pretreatment functions such as heating, stirring, and vacuuming.It can be specifically used in industries such as automotive electronics, photovoltaics, consumer electronics, household appliances, aerospace and navigation, deep water, military industry and amedical equipment. For example, PACK modules, controllers, electronic components, chip heat dissipation, etc. In addition, it is more suitable for single- and two-component polyurethane, silicone and other heat-dissipating glues.

Product advantages:

- Vacuum supply: the glue is in a vacuum environment throughout the process, and the maximum vacuum can reach 2mbar.
- Non-stop: The equipment can supply materials continously, and glue can still be added normally during the working process.
- Modularization: All components are modular in design, allowing users to quickly add or remove equipment functions and facilitate maintenance.
- Humanization: UI interaction is extremely user-friendly and can be used in a variety of complex scenarios.
- Durability: The specially designed piston pump structure has a long service life and is very suitable for glue with fillers.

MEST-G380	
Overall size (mm)	1650(W)*700(D)*1700(H)
Weight（kg)	≈ 300
Control system	PLC + touch screen + control software independently developed by MEST
Pressure paill specifications (L)	45 / 60 / 80
Pressure barrel material	304
Glue discharging method	plunger pump
Glue feeding method	Vacuum glue extraction
Applicable viscosity range (cps)	0-50000 (self-leveling colloid)
Vacuum degree (mbar)	⩽ 2
Heating temperature (℃)	25-100
Power（W)	5000
Input power	AC380V±10% 50Hz
Gas source pressure (Mpa)	⩾ 0.55
Applicable ambient temperature (℃)	0-50

Vacuum glue injection station MEST-GV334

PRODUCT DESCRIPTION:

The vacuum glue injection station MEST-GV334 is suitable for products that have extremely high bubble requirements and need to be dispensed in a vacuum environment. With the vacuum material preparation machine independently developed and produced by MEST, and the piston glue injection valve P20, it can achieve single-head or multi-head simultaneous quantification. Potting ensures that the product is filled bubble-free, improving production efficiency while ensuring product quality. It can be specifically used in automotive electronics, photovoltaics, consumer electronics, household appliances, aerospace and navigation, deep water, military industry and other industries. In addition, it is more suitable for epoxy resin, polyurethane and silicone based fluids.

Product advantages:

- Vacuum potting: the glue and product are in a vacuum environment throughout the process, and the maximum vacuum can reach less than 2mbar
- Reliability: Potting in a full vacuum environment improves product reliability and durability.
- Modularization: All components are modular in design, making maintenance easy.
- Humanization: The UI interactivity is extremely user-friendly and can be used in a variety of complex scenarios.

MEST-GV334	
Overall size (mm)	1600(W)*1250(D)*2500(H)
Weight (kg)	≈ 600
Working range (mm)	Customized
Vacuum pail material and thickness (mm)	6061 / 35
Control system	Industrial computer + motion controller + control software independently developed by MEST
Maximum moving speed (mm/s)	200
Machine load (kg)	⩽ 800
Maximum product size (mm)	800*800*800
Vacuum degree (mbar)	⩽ 2
Power (W)	12000
Input power	AC380V±10% 50Hz
Gas source pressure (Mpa)	⩾ 0.55
Applicable ambient temperature (°C)	0-50

Three-axis dispensing platform MEST-GM542

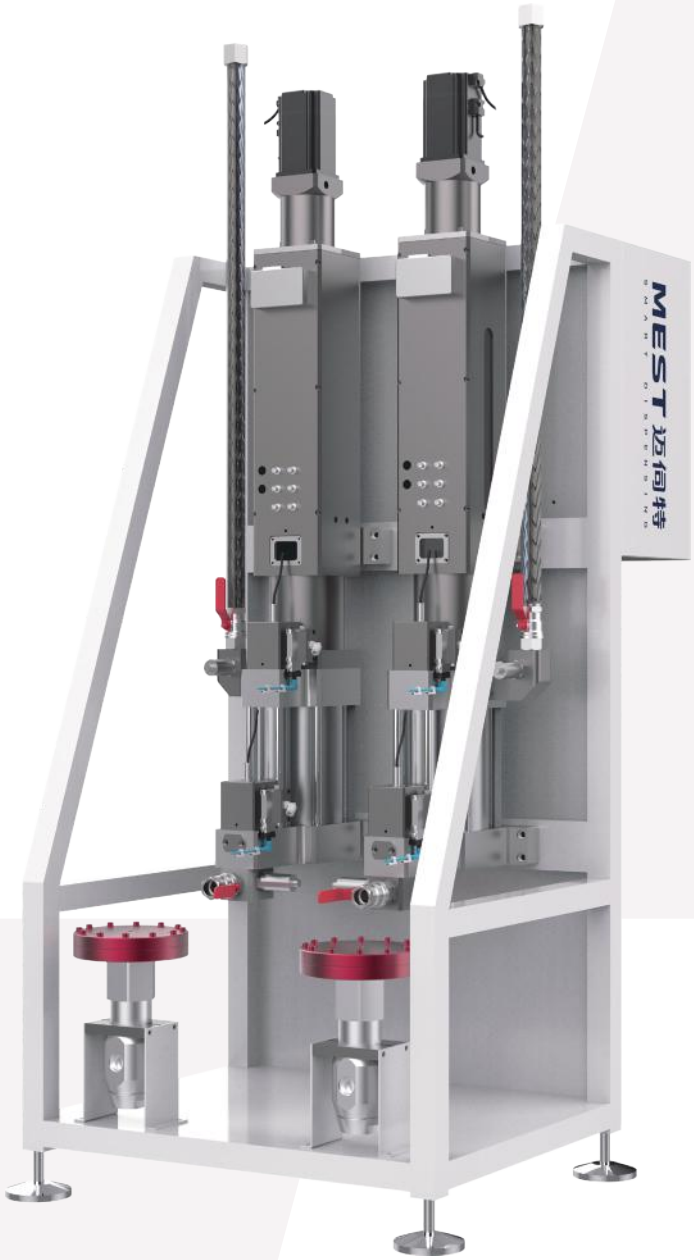
PRODUCT DESCRIPTION:

The three-axis platform MEST-GM series can be used as the mounting body for P20, GP30 and other glue injection heads to ensure that the glue injection head can run and dispense glue according to the set trajectory at high speed, precision and stability, ensuring the consistency and stability of customer product dispensing. Specifically, it can be used in automotive electronics, photovoltaics, consumer electronics, household appliances, aerospace and navigation, deep water, military industry and other industries.

Product advantages:

- Modularization: All components are modular in design, making maintenance easy.
- Humanization: The UI interaction is extremely user-friendly and can be used in a variety of complex scenarios.

MEST-GM542	
Overall size (mm)	1600(W)*1250(D)*2500(H)
Working range (mm)	Customized
Control system	Industrial computer + motion controller + control software independently developed by MEST
Maximum moving speed (mm/s)	200
Z-axis load (kg)	⩽ 30
Power (W)	1500
Input power	AC380V±10% 50Hz
Gas source pressure (Mpa)	⩾ 0.55
Applicable ambient temperature (°C)	0-50



Plunger type quantitative machine MEST-MP40

PRODUCT DESCRIPTION:

The plunger-type quantitative machine uses wear-resistant cylinder material and is suitable for two-component glue with fillers. It performs online pressure monitoring at the feed port and metering end. The special internal structure can achieve continuous feeding. It can be widely used in automotive electronics, photovoltaic, consumer electronics, household appliances, aerospace and navigation, deep water, military industry and medical equipment industries. For example, PACK modules, controllers, electronic components, chip cooling, etc. And suitable for two-component polyurethane, silicone and other heat dissipation glues.

MEST-MP40

Measuring method	piston type
Maximum dosage	700ml
Filling time	50s
Glue dispensing speed	4-40ml/s
Measuring accuracy	±5%
Pressure range	0-100bar
Mixing ratio	100:100-100:10
Power	2000W
Online monitoring	Torque monitoring, pressure monitoring, position monitoring

Online visual dispensing machine MEST-C5 series

PRODUCT DESCRIPTION:

The online visual dispensing machine MEST-C5 has the characteristics of high efficiency, intelligence, and high precision. It can be used in automotive electronics, 3C electronics, biomedical, security monitoring, aerospace and military industry, semiconductor, Mini LED and other industries. And suitable for red glue, solder paste, silver paste, UV glue, one-component epoxy resin, electronic silicone, oil glue, ink, lubricant, crystal glue, thermal conductive glue, black glue and other fluids.

	MEST-C5	MEST-C5M	C5M(Clean Version)
Overall size (mm)	770(W)*1350(D)*1550(H)	770(W)*1350(D)*1550(H) | 1350(W)*1350(D)*1810(H)	
Weight (kg)	700	750 / 850	
Monorail working area	350*475	350*475	
Control system	Control software independently developed by MEST	Control software independently developed by MEST	
Operating interface	Windows	Windows	
Vision system	Intelligent positioning, flyshot, AVI detection	Intelligent positioning, flyshot, AVI detection	
Drive mode	servo motor + ball screw	XY axis linear motor	
Maximum speed (mm/s)	XY: 1000 Z: 300	XY: 1500 Z: 300	
Maximum acceleration (g)	XY: 1.0 Z: 0.3	XY: 1.5 Z: 0.3	
Repeat accuracy (mm)	±0.005	±0.005	
Positioning accuracy (mm)	±0.01	±0.01	
Maximum load (kg)	3.5	3.5	
Conveyor belt height from the ground (mm)	900±30	900±30	
Input power	AC220V±10% 50Hz	AC220V±10% 50Hz	
Air source pressure (Mpa)	⩾ 0.6	⩾ 0.6	
Light source	Controllable three-color light	Controllable three-color light	

Product advantages:

- Equipped with CCD visual positioning system and automatic visual sampling system to automatically detect the dispensing effect. The integrated welding frame combines with stable structure and high installation accuracy.
- The gantry platform frame is equipped with imported servo motors and imported grinding screws, with a repeatability of 0.01mm. It can be equipped with any valve, pneumatic injection valve, piezoelectric valve, screw valve, needle valve, spray valve, etc.
- Mature and stable high-speed motion platform
- The automatic loading and unloading track can be easily integrated or can be transmitted on two tracks to improve efficiency.

	MEST-C5B	MEST-C5L
Overall size (mm)	870(W)*1350(D)*1550(H)	1440(W)*1460(D)*1580(H)
Weight (kg)	790	1160
Monorail working area	450*475	850*550
Control system	Control software independently developed by MEST	Control software independently developed by MEST
Operating interface	Windows	Windows
Vision system	Intelligent positioning, flyshot, AVI detection	Intelligent positioning, flyshot, AVI detection
Drive mode	servo motor + ball screw	servo motor + ball screw
Maximum speed (mm/s)	XY：1000 Z：300	XY：1000 Z：300
Maximum acceleration (g)	XY：1.5 Z：0.3	XY：1.5 Z：0.3
Repeat accuracy (mm)	±0.005	±0.01
Positioning accuracy (mm)	±0.01	±0.02
Maximum load (kg)	3.5	3.5
Conveyor belt height from the ground (mm)	900±30	900±30
Input power	AC220V±10% 50Hz	AC220V±10% 50Hz
Air source pressure (Mpa)	⩾ 0.6	⩾ 0.6
Light source	Controllable three-color light	Controllable three-color light

Panoramic vision dispensing machine MEST-V series

PRODUCT DESCRIPTION:

As a large-platform visual dispensing machine independently developed and produced by MEST, the MEST-V series has significant dispensing advantages and high cost performance.

It can be used in automotive electronics, 3C electronics, biomedical, security monitoring, aerospace and military industry, semiconductor, Mini LED and other industries. And suitable for red glue, solder paste, silver paste, UV glue, one-component epoxy resin, electronic silicone, oil glue, ink, lubricant, crystal glue, thermal conductive glue, black glue and other fluids.

	MEST-V3 | V3P	MEST-V4 | V4P
Overall size (mm)	1574(W)*1475(D)*1900(H)	1725(W)*1675(D)*1985(H)
Weight（kg)	600	700
Number of stations	Duplex stations	Duplex stations
Working area（mm）	300*400（Per workstation）	400*500（Per workstation）
Control System	Control software independently developed by MEST	Control software independently developed by MEST
Operating interface	Windows	Windows
Number of dispensing heads	1-4heads optional	1-4heads optional
Industrial camera	12 million / 20 million pixels optional	12 million / 20 million pixels optional
Driving method	Servo motor + grinding screw	Servo motor + grinding screw
Dispensing efficiency (K/H) (dotting)	20	20
Maximum speed (X, Y) (mm/s)	700	700
Repeat accuracy (mm)	±0.02	±0.02
Positioning accuracy (mm)	±0.05	±0.05
Maximum load (kg)	5（Z axis）	5（Z axis）
Gas source pressure (Mpa)	⩾ 0.6	⩾ 0.6
Light source	Energy-saving and environmentally friendly shadowless lamp	Energy-saving and environmentally friendly shadowless lamp

Product advantages:

- High-precision use of high-definition cameras, automatic and accurate position recognition, visual programming, and CCD detection for automatic positioning correction. Optional dual vision system can position the product with secondary vision and capture the product outline with higher precision.
- High productivity can be equipped with multiple heads working at the same time to improve production efficiency.
- Highly flexible modular assembly process, each key component can be disassembled individually, and accidentally damaged components can be quickly replaced.
- High-stability overall marble base plate with stable structure; smooth and low noise when running at high speed; using fold-resistant shielded cables to fundamentally solve hidden dangers such as disconnection and phase loss.

	MEST-V3PS	MEST-V4PS
Overall size (mm)	945(W)*1329(D)*1650(H)	1225(W)*1675(D)*1985(H)
Weight（kg)	450	500
Number of stations	Single station	Single station
Working area（mm)	300*400	400*500
Control System	Control software independently developed by MEST	Control software independently developed by MEST
Operating interface	Windows	Windows
Number of dispensing heads	1-2 heads optional	1-4 heads optional
Industrial camera	12 million pixels	12 million / 20 million pixels optional
Driving method	Servo motor + grinding screw	Servo motor + grinding screw
Dispensing efficiency (K/H) (dotting)	20	20
Maximum speed (X, Y) (mm/s)	700	700
Repeat accuracy (mm)	±0.02	±0.02
Positioning accuracy (mm)	±0.05	±0.05
Maximum load (kg)	5（Z axis)	5（Z axis)
Gas source pressure (Mpa)	⩾ 0.6	⩾ 0.6
Light source	Energy-saving and environmentally friendly shadowless lamp	Energy-saving and environmentally friendly shadowless lamp

Visual desktop dispensing machine MEST-TSV series

PRODUCT DESCRIPTION:

As a large-platform visual dispensing machine independently developed and produced by MEST, the MEST-V series has significant dispensing advantages and high cost performance.

It can be used in automotive electronics, 3C electronics, biomedical, security monitoring, aerospace and military industry, semiconductor, Mini LED and other industries. And suitable for red glue, solder paste, silver paste, UV glue, one-component epoxy resin, electronic silicone, oil glue, ink, lubricant, crystal glue, thermal conductive glue, black glue and other fluids.

Product advantages:

- Select handheld teaching pendant or computer operation as needed, programming is convenient and easy to learn
- Optional single or double station dispensing, high efficiency
- Quickly switch the dispensing tracks of multiple products
- The amount of glue, glue coating speed, glue dispensing time and glue stop time can all be set.

	MEST-T3SV-331	MEST-T3SV-551	MEST-T4SV-5331
Overall size (mm)	521(W)*657(D)*737(H)	721(W)*856(D)*737(H)	740(W)*657(D)*737(H)
Weight（kg）	62	77	68
Number of stations	Single station	Single station	Duplex stations
Working area（mm）	300*300*100	500*500*100	500*300*300*100
Control system	Control software independently developed by MEST	Control software independently developed by MEST	Control software independently developed by MEST
Operating interface	Windows	Windows	Windows
Industrial camera	0.3-5million pixels optional	0.3-5million pixels optional	0.3-5million pixels optional
Drive mode	Servo motor + ball screw	Servo motor + ball screw	Servo motor + ball screw
Maximum speed (mm/s)	XY:500 Z：200	XY:500 Z：200	XY:500 Z：200
Maximum acceleration	XY:0.5 Z：0.3	XY:0.5 Z：0.3	XY:0.5 Z：0.3
Repeat accuracy (mm)	±0.01	±0.01	±0.01
Positioning accuracy (mm)	±0.01	±0.01	±0.01
Maximum load (kg)	7	7	7
Gas source pressure (Mpa)	0.6	0.6	0.6
Light source	Controllable three-color light	Controllable three-color light	Controllable three-color light

Desktop dispensing machine MEST-TS series

	MEST-T3S-331	MEST-T3S-551
Overall size (mm)	521(W)*657(D)*737(H)	721(W)*856(D)*737(H)
Weight（kg)	57	72
Number of stations	Single Station	Single Station
Working area（mm）	300*300*100	500*500*100
Control system	Control software independently developed by MEST	Control software independently developed by MEST
Operation interface	Professional dispensing software	Professional dispensing software
Industrial camera	/	/
Drive mode	Servo motor + ball screw	Servo motor + ball screw
Maximum speed (mm/s)	XY:500	XY:500
Repeat accuracy (mm)	±0.01	±0.01
Positioning accuracy (mm)	±0.01	±0.01
Maximum load (kg)	7	7
Ambient temperature (°C)	0-50	0-50
Gas source pressure (Mpa)	0.6	0.6
Light source	/	/

PRODUCT DESCRIPTION:

The MEST-TS series of desktop dispensing machines use handheld teaching programming, including three-axis linkage, four-axis linkage, dual platforms, etc., with good human-computer interaction experience, easy to learn programming; Large program capacity, can store 100 programs, 400000 points memory capacity; A variety of dispensing heads can be selected to achieve multi-point simultaneous operation, greatly improving work efficiency. The MEST -TS series can be used in the electronics industry, security monitoring, medical reagents, instrumentation and other industries. And suitable for UV glue, AB glue, EPOXY (black glue), white glue, EMI conductive glue, SILICON, epoxy resin, instant glue, silver glue, red glue, solder paste, heat dissipation glue, solder mask paste and other fluids.

Product advantages:

- Select handheld teaching pendant or computer operation as needed, programming is convenient and easy to learn
- Optional single or double station dispensing, high efficiency
- Quickly switch the dispensing tracks of multiple products
- The amount of glue, glue coating speed, glue dispensing time and glue stop time can all be set.

	MEST-T4S-5331	MEST-T4S-R1(syringe rotation) MEST-T4S-R2(needle rotation)
Overall size (mm)	740(W)*657(D)*737(H)	521(W)*657(D)*737(H) 721(W)*856(D)*737(H)
Weight（kg)	63	60 / 76
Number of stations	Duplex stations	Single Station
Working area（mm)	500*300*300*100	300*300*100*360 500*500*100*360
Control system	Control software independently developed by MEST	Control software independently developed by MEST
Operation interface	Professional dispensing software	Professional dispensing software
Industrial camera	/	/
Drive mode	Servo motor + ball screw	Servo motor + ball screw
Maximum speed (mm/s)	XY:500	XY:500
Repeat accuracy (mm)	±0.01	±0.01
Positioning accuracy (mm)	±0.01	±0.01
Maximum load (kg)	7	7
Ambient temperature (℃)	0-50	0-50
Gas source pressure (Mpa)	0.6	0.6
Light source	/	/

Desktop dispensing machine MEST-TP series

	MEST-T3P-331	MEST-T3P-551
Overall size (mm)	481(W)*605(D)*664(H)	681(W)*753(D)*663(H)
Weight（kg)	53	68
Number of stations	Single station	Single station
Working area（mm）	300*300*100	500*500*100
Control system	Control software independently developed by MEST	Control software independently developed by MEST
Operation interface	Professional dispensing software	Professional dispensing software
Industrial camera	/	/
Drive mode	Closed-loop step motor + belt	Closed-loop step motor + belt
Maximum speed (mm/s)	XY:500	XY:500
Repeat accuracy (mm)	±0.02	±0.02
Positioning accuracy (mm)	±0.02	±0.02
Maximum load (kg)	7	7
Ambient temperature (°C)	0-50	0-50
Gas source pressure (Mpa)	0.6	0.6
Light source	/	/

PRODUCT DESCRIPTION:

The MEST-TP series of desktop dispensing machines use handheld teaching programming, including three-axis linkage, four-axis linkage, dual platforms, etc.,with good human-computer interaction experience, easy to learn programming; Large program capacity, can store 100 programs, 400000 points memory capacity; A variety of dispensing heads can be selected to achieve multi-point simultaneous operation, greatly improving work efficiency. The MEST-TP series can be used in the electronics industry, security monitoring, medical reagents, instrumentation and other industries. And suitable for UV glue, AB glue, EPOXY (black glue), white glue, EMI conductive glue, SILICON, epoxy resin, instant glue, silver glue, red glue, solder paste, heat dissipation glue, solder mask paste and other fluids.

Product advantages:

- Select handheld teaching pendant or computer operation as needed, programming is convenient and easy to learn
- Optional single or double station dispensing, high efficiency
- Quickly switch the dispensing tracks of multiple products
- The glue amount, glue coating speed, glue dispensing time and glue stop time can all be set.

	MEST-T4P-5331	MEST-T4P-R1(syringe rotation) MEST-T4P-R2(needle rotation)
Overall size (mm)	681(W)*605(D)*664(H)	481(W)*605(D)*664(H) 681(W)*753(D)*663(H)
Weight（kg)	59	56 / 72
Number of stations	Duplex stations	Single station
Working area（mm)	500*300*300*100	300*300*100*360 500*500*100*360
Control system	Control software independently developed by MEST	Control software independently developed by MEST
Operation interface	Professional dispensing software	Professional dispensing software
Industrial camera	/	/
Drive mode	Closed-loop step motor + belt	Closed-loop step motor + belt
Maximum speed (mm/s)	XY:500	XY:500
Repeat accuracy (mm)	±0.02	±0.02
Positioning accuracy (mm)	±0.02	±0.02
Maximum load (kg)	7	7
Ambient temperature (℃)	0-50	0-50
Gas source pressure (Mpa)	0.6	0.6
Light source	/	/

Gear Injection Valve MEST-GP30

PRODUCT DESCRIPTION:

The gear injection valve MEST-GP30 is a volumetric injection head for continuous potting, suitable for processing single and two-component potting materials from low to high viscosity, non-abrasive. They consist of a housing with material inlet and outlet pipes and two gears, one of which is connected to the pump drive. The drive of the second gear is achieved by meshing with the drive of the first gear. With the help of the rotating gear, the pouring medium is sucked into the feed inlet, transported by the pump on the outside of the gear, and then discharged at the discharge end. The amount of material discharged is determined by the tooth and gear geometry, the number of teeth and the set rotational speed. Specific applications include the continuous application of sealants on component housings or the application of adhesives during the joining process.

Product advantages:

- Reliable craft
- Modular design
- High precision
- High flexibility

MEST-GP30

Two-component size (mm)	210(W)*130(D)*450(H)
Single component size (mm)	120(W)*130(D)*450(H)
Weight (kg)	≈ 10 / 5
Measurement method	Gear Quantification
Volume mixing ratio	1:1-100:10
Glue dispensing accuracy	±2%~3%
Minimum glue output (ml)	0.01
Glue discharging method	gear continuous discharging
Applicable viscosity range (cps)	100-300000
Power (w)	800/400
Input power	AC220V±10%50HZ
Gas source pressure (mpa)	⩾ 0.5
Applicable ambient temperature (℃)	0-50

Piston injection valve MEST-P20

PRODUCT DESCRIPTION:

As a volumetric injection head, the piston injection valve MEST-P20 is suitable for processing single- and two-component potting materials from low to high viscosity, abrasive and non-abrasive. The specially designed internal cavity ensures that the glue dispensing accuracy can reach ±2%. The piston glue injection valve consists of the valve body, cylinder, glue discharging body, piston rod and corrosion-resistant small parts. The cylinder and valve body are separated with corrosion-resistant gaskets and sealing rings to prevent glue from entering the cylinder when glue is released. The piston injection valve realizes quantitative control of glue dispensing through the movement of the cylinder, assisting the operator to more accurately control the width and quantity of glue. Specific applications include insulation potting of transformers and ignition coils, vacuum potting to protect IGBTs, etc.

Product advantages:

- Reliable craft
- Modular design
- High precision
- High flexibility

MEST-P20

Overall size (mm)	250(W)*170(D)*360(H)
Weight (kg)	≈ 15
Measurement method	Dosing cylinder
Volume mixing ratio	1:1-100:7
Glue dispensing accuracy	±2%
Minimum glue output (ml)	0.01
Dispensing method	Intermittent glue dispensing
Applicable viscosity range	100-200000
Power (w)	400
Input power	AC220V±10%50HZ
Gas source pressure (Mpa)	⩾ 0.55
Applicable ambient temperature (℃)	0-50

Thimble type glue dispensing valve MEST-VP40

PRODUCT DESCRIPTION:

The double-group mixing valve is linked with the dosing machine to achieve the ideal glue output and mixing ratio accuracy. It adopts a thimble-type structure and has high sealing pressure to ensure no glue dripping. It can be widely used in automotive electronics, photovoltaic, consumer electronics, household appliances, aerospace and navigation, deep water, military industry and medical equipment industries. For example, PACK modules, controllers, electronic components, chip cooling, etc. And it is more suitable for heat dissipation glue such as two-component polyurethane and silicone.

MEST-VP40	
Mixing flow	5-25ml/S
Working pressure	0-100bar
Driving mode	dual cylinder independent control
Working mode	thimble type
Weight	10kg
Mixing tube	Universal standard mixing tube
Mixing tube positioning	optional, positioning accuracy ±0.05mm

Piezoelectric Injection Valve MEST-F910

PRODUCT DESCRIPTION:

Piezoelectric injection valve is a device that uses the piezoelectric effect to achieve the injection function. It is composed of piezoelectric materials, nozzles, valves and drive circuits. The piezoelectric injection valve controls the opening and closing of the nozzle by controlling the deformation of the piezoelectric material, thereby realizing the injection and stop of liquid injection. MEST-F910 is a non-contact piezoelectric injection valve that integrates high precision, high efficiency, high consistency and high flexibility. Specific applications include SMT, FPC&PCB assembly, LED packaging, energy, biotechnology, medical, optics, MEMS, RFID and other industries.In addition, it's suitable for hot melt adhesive, epoxy resin, silicone gel, silver paste, red glue, conductive adhesive, anaerobic adhesive, Fluids such as ink, grease, and flux.

Product advantages:

- Stable operating frequency 500Hz, instantaneous maximum frequency up to 1000Hz
- Micro-dispensing and precise glue quantity control. Achieves minimum line width of 0.15mm, non-contact spray dispensing
- High-speed spraying in the air can achieve high-speed dispensing on smooth/uneven/flexible substrate surfaces. High spray pressure, the best choice for spraying high, medium and low viscosity glue.
- Viscosity range 0 ~ 200000cps
- Heating temperature can reach 150°C
- Modular design, quick disassembly of the flow channel structure, and convenient maintenance

Overall dimensions (mm)	82.5(W)*20(D)*110.5(H)
Weight (kg)	0.5
Suitable glue viscosity (CPS)	0-200000
Striker nozzle material	tungsten steel, ceramic
Material of flow channel component	SUS304 / PEEK
Feed interface	Luer connector
Feed port pressure (Mpa)	⩽ 0.5
Glue dispensing accuracy	±3.5%
Minimum spot diameter (mm)	0.15
Minimum wire diameter (mm)	0.15
Dotting frequency (Hz)	500（instantaneous 1000Hz）
Minimum glue spray volume (nl)	5
Heating component temperature (°C)	up to 150

Piezo Valve Controller MEST-F910C

Product overview>>>MEST-F910C controller needs to be equipped with a piezoelectric valve. The output frequency can reach 1000Hz. It has dual-channel heating function and rubber barrel air pressure adjustment.

Overall dimensions (mm)	250(W)*280(D)*106(H)
Input power	AC220V±10% 50Hz
Control signal type	24V level signal, pulse width greater than 5ms
Control mode	Dotting/Line Drawing/Cleaning
Output voltage (V)	110
Maximum dispensing frequency (Hz)	1000
Flow channel heating temperature (°C)	⩽ 150
Control system	Control software independently developed by MEST
Operation interface	Self-designed interface
Applicable valve type	Piezoelectric valve (F910)

High Viscosity Screw Valve MEST-F1000

PRODUCT DESCRIPTION:

The screw valve performs dispensing processes such as dotting and scribing with high precision by controlling time, air pressure and screw speed.

It is a precision screw valve suitable for high viscosity fluids. MEST-F1000 is a contact-type precision screw valve that uses the principle of screw rotation to transport fluid to achieve precise and stable dispensing. Suitable for epoxy resin, polyurethane, solder paste, abrasive paste, UV glue, silicone gel, silver paste, red glue, grease and other fluids.

Product advantages:

- Suitable for dispensing glue with medium to high viscosity, and can be adapted to granular glue
- Precise control and high dispensing repeatability
- Can work in narrow gaps of 0.2mm
- Minimum glue output 0.2ul
- The forward and reverse control of the screw is adjustable, the screw sucks back in the reverse direction, and the glue is cut more thoroughly.
- Modular design, quick disassembly of the flow channel structure, quick disassembly and convenient maintenance

Specifications	MEST-F1000-2.0	MEST-F1000-4.8
Weight (kg)	0.6	0.6
Overall dimensions (including 55CC plastic barrel)	34(W)*81(D) *208(H)	34(W)*81(D)*208(H)
Suitable glue viscosity (CPS)	10000-1000000	10000-1000000
Mover materia	tungsten steel/ceramic	tungsten steel/ceramic
Stator material	tungsten steel/ceramic	tungsten steel/ceramic
Feed interface	Luer connector	Luer connector
Feed port pressure (MPa)	0~0.6	0~0.6
Glue dispensing accuracy	±2%	±2%
Minimum dispensing amount (cc)	0.2	0.5
Driving method	DC servo motor	DC servo motor
Mover specification	2.0	4.8
Maximum speed (r/min)	420	420
Dispensing head type	needle	needle
Main body material	Aluminum alloy	Aluminum alloy

High Viscosity Screw Valve Controller MEST-F1000C

Product Overview>>>MEST-F1000C is a screw valve controller, used with the MEST-F1000 screw valve for dispensing operations.

Model	MEST-F1000C
Overall dimensions (mm)	200(W)*220(D)*120(H)
Input power	AC220V±10% 50Hz
Input air pressure (Mpa)	0.6-0.8
Signal control type	Passive signal
Air pressure accuracy (Mpa)	0.001
Air output	1 channel (glue pressure)
Control system	Control software independently developed by MEST
Operation interface	Self-designed interface
Applicable valve type	screw valve (F1000))

Single Liquid Screw Valve MEST-F2000

PRODUCT DESCRIPTION:

The screw valve is a new type of valve body that is made up of the rotor and the stator meshing with each other to form a regular geometric capacity body, which can be used for dispensing and metering. The main working parts are the eccentric screw and the fixed bushing (rubber material). MEST-F2000 is a contact-type single-liquid screw valve that uses a servo motor to drive an eccentric screw for feeding, achieving continuous and stable glue output. Specifically used in automobile, 3C, electronic appliances, aerospace, biotechnology, medical, food and other industries. Suitable for epoxy resin, polyurethane, silicone, conductive adhesive, ink, grease and other fluids.

Product advantages:

- Suitable for dispensing glue with low, medium and high viscosity
- Suitable for glue with spherical tiny particles
- Precise control, high dispensing repeatability ±1%
- Adjustable suction to prevent back dripping, easily break glue and avoid stringing

Specifications	F2000-0.06	F2000-0.12	F2000-0.6
Overall dimensions (mm)	32(W)*75(D)*295(H)	45(W)*50(D)*370(H)	45(W)*50(D)*370(H)
Weight (kg)	0.6	1.5	2.5
Suitable glue viscosity (CPS)	0-500000	0-500000	0-500000
Mover material	SUS304 / zirconium oxide	SUS304 / zirconium oxide	SUS304 / zirconium oxide
Stator material	FFKM / FKM / EPDM	FFKM / FKM / EPDM	FFKM / FKM / EPDM
Feed port pressure (MPa)	0~0.6	0~0.6	0~0.6
Glue dispensing accuracy	±2%	±2%	±2%
Minimum dispensing amount (cc)	0.02	0.03	0.06
Maximum dispensing volume(ml/min)	7.2	14.4	72
Displacement (cc/r)	0.06	0.12	0.6
Main body material	Aluminum alloy	Aluminum alloy	Aluminum alloy

Single Liquid Screw Valve Controller MEST-F2000C

Product Overview>>>MEST-F2000C is a precision screw valve controller, equipped with MEST-F2000 single liquid screw valve for dispensing operations.

Model	MEST-F2000C
Overall dimensions (mm)	200(W)*220(D)*120(H)
Input power	AC220V±10% 50Hz
Input air pressure (Mpa	0.6-0.8
Signal control type	Passive signal
Air pressure accuracy (Mpa)	0.001
Air output	1 channel (glue pressure)
Control system	Control software independently developed by MEST
Operation interface	Self-designed interface
Applicable valve type	screw valve (F2000)

Two-liquid Screw Valve MEST-FD2000

PRODUCT DESCRIPTION:

MEST-FD2000 is a contact-type two-liquid screw valve that can control the flow and mixing ratio of various two-component adhesives and perform high-speed dispensing operations. Specifically used in automobiles, electronic appliances, aerospace, biotechnology, medical, food and other industries. Suitable for epoxy resin, polyurethane, silicone, conductive adhesive, ink, grease and other fluids.

Product advantages:

- Suitable for dispensing AB glue with low, medium and high viscosity
- Adjust the speed of the two motors to quickly adjust the two-component dispensing ratio, which is simple to operate.
- Precise output control and high dispensing repeatability
- Dispensing accuracy ±1%

Specifications	FD2000-0.06	FD2000-0.6
Overall dimensions (mm)	32(W)*156(D)*310(H)	45(W)*100(D)*370(H)
Weight (kg)	1.6	5.2
Suitable glue viscosity (CPS)	0-500000	0-500000
Mover material	SUS304 / zirconium oxide	SUS304 / zirconium oxide
Stator material	FFKM / FKM / EPDM	FFKM / FKM / EPDM
Inlet pressure (MPa)	0~0.6	0~0.6
Glue dispensing accuracy	±2%	±2%
Minimum dispensing amount (cc)	0.01	0.06
Maximum dispensing volume (ml/min)	7.2	72
Displacement (cc/r)	0.06	0.6
Mixing ratio	1/1 - 10/1	1/1 - 10/1

Two-liquid Screw Valve Controller MEST-FD2000C

Product Overview>>>MEST-FD2000C is a precision screw valve controller, used with the MEST-F2000 dual-liquid G-type screw valve for dispensing operations. The controller has control functions such as dotting and wiring of the screw valve. The servo controller accurately controls the servo motor of the screw valve.

Model	MEST-FD2000C
Overall dimensions (mm)	200(W)*220(D)* 120(H)
Input power	AC220V±10% 50Hz
Input air pressure (Mpa)	0.6-0.8
Signal control type	Passive signal
Air pressure accuracy (Mpa)	0.001
Air output	1 channel (glue pressure)
Control system	Control software independently developed by MEST
Operation interface	Self-designed interface
Applicable valve type	screw valve (FD2000)

High Speed Injection Valve MEST-F800

PRODUCT DESCRIPTION:

MEST-F800 is a non-contact high-speed injection valve that can realize micro-controllable dispensing of various fluids. Suitable for epoxy resin, UV glue, silicone gel, conductive glue, ink, grease and other fluids. adhesive, ink, grease and other fluids.

Product advantages:

- High-speed air spraying and high-speed dispensing (working frequency 200HZ)
- Micro dispensing (minimum 0.2mm dot diameter)
- Unique adjustment mechanism, suitable for fluids of different viscosities

Overall dimensions (mm)	56(W)*96(D)*156(H)
Weight (kg)	0.9
Suitable glue viscosity (CPS)	0-20000
Striker nozzle material	tungsten steel
Runner assembly material	SUS304
Feed interface	Luer connector
Feed port pressure (Mpa)	⩽ 0.6
Glue dispensing accuracy	±5%
Firing pin specifications (SR/mm)	2.0 / 3.0 / 4.0 / 5.0
Nozzle specifications (mm)	0.1 / 0.15 / 0.2 / 0.25 / 0.3 / 0.4 / 0.5 / 0.6
Minimum spot diameter (mm)	0.2
Minimum wire diameter (mm)	0.2
Dotting frequency (Hz)	⩽ 200
Minimum glue spray volume (nl)	5
Flow channel heating component (°C)	60
Main valve body	stainless steel
Valve opening pressure (Mpa)	0.8-0.9
Solenoid valve	FESTO high frequency solenoid valve

High-speed Injection Valve Controller MEST-F800C

Product Overview>>>MEST-F800C high-speed pneumatic dispensing valve controller is regulated by two-way air pressure, which can control the air pressure of the glue barrel and the inlet air pressure of the glue valve respectively.

Model	MEST-F800C
Overall dimensions (mm)	280(W)*280(D)* 116(H)
Input power	AC220V±10% 50Hz
Control signal type	24V level signal, pulse width greater than 5ms
Input air pressure (Mpa)	0.6-0.8
Air pressure accuracy (Mpa)	0.001
Air output	2 channels (glue pressure, valve pressure)
Output function module	temperature control, light source, valve pulse
Maximum pulse frequency (Hz)	200
Applicable valve types	injection valve, striker valve, etc. (F800, F700)

Striker Valve MEST-F700

PRODUCT DESCRIPTION:

The striker valve is a commonly used hydraulic control component, which is composed of a piston, a spring and a striker. When hydraulic flow passes through the valve body, the hydraulic force moves the striker upward, causing the valve port to open, and hydraulic flow can enter the hydraulic system through the valve body. When hydraulic flow stops, the spring moves the striker downward, causing the valve port to close, preventing hydraulic flow from entering the hydraulic system. MEST-F700 is a cost-effective micro-volume, precision needle valve. By adjusting the stroke and adapting to different needles, it can achieve extremely micro-volume, highly consistent dispensing. Suitable for epoxy resin, UV glue, silicone gel, silver paste, conductive glue, ink, grease and other fluids.

Product advantages:

- Can dispense glue in a small space
- Cut off the glue cleanly without leaving any residue
- Flow rate is adjustable
- Non-contact/contact dispensing possible
- High-speed dispensing (working frequency 100Hz)

Model	MEST-F700	MEST-F700S
Overall dimensions (W×D×H) (mm)	Φ27*155	56(W)*67(D)*155(H) (valve bodyΦ27*155)
Weight (kg)	0.2	0.6
Suitable glue viscosity (CPS)	0-20000	0-20000
Firing pin material	tungsten steel	tungsten steel
Runner component material	SUS304	SUS304
Feeding interface	Quick-twist joint	Quick-twist joint
Feed port pressure (Mpa)	⩽ 0.6	⩽ 0.6
Glue dispensing accuracy	±10%	±10%
Firing pin specifications (SR/mm)	2.0 / 3.0 / 4.0	2.0 / 3.0 / 4.0
Needle specifications	13G-30G	13G-30G
Dotting frequency (Hz)	Solenoid valve control ⩽ 100	100
Main valve body	AL6061	AL6061
Valve opening pressure (Mpa)	0.5-0.7	0.5-0.7
Solenoid valve	/	FESTO high frequency solenoid valve

High-speed Injection Valve Controller MEST-F800C

Product Overview>>>MEST-F800C high-speed pneumatic dispensing valve controller is regulated by two-way air pressure, which can control the air pressure of the glue barrel and the inlet air pressure of the glue valve respectively.

Model	MEST-F800C
Overall dimensions (mm)	280(W)*280(D)*116(H)
Input power	AC220V±10% 50Hz
Control signal type	24V level signal, pulse width greater than 5ms
Input air pressure (Mpa)	0.6-0.8
Air pressure accuracy (Mpa)	0.001
Air output	2 channels (glue pressure, valve pressure)
Output function module	temperature control, light source, valve pulse
Maximum pulse frequency (Hz)	200
Applicable valve types	injection valve, striker valve, etc. (F800, F700)

High Speed Dispense Valve MEST-F600

PRODUCT DESCRIPTION:

The MEST-F600 series is a cost-effective low, medium and high viscosity small flow dispense valve. It has a certain suction effect. The dispensing needle has no residual glue. The rear end stroke is adjustable to control the glue amount size.

Product advantages:

- Flow rate is adjustable
- Different types of needles can be replaced to suit different applications.
- Has the effect of sucking back
- Prevent glue from flowing back

Model	MEST-F600S	MEST-F600M	MEST-F600L
Overall dimensions (mm)	ϕ24*180	30(W)*30(D)*180(H)	ϕ40*220
Weight (kg)	0.2	0.5	0.8
Suitable glue viscosity (CPS)	0-200000	0-500000	1000-500000
Applicable scenarios	low flow	medium flow	high flow
Material	Main body AL6063 SUS304	Main body AL6063 SUS304	Main body AL6063 SUS304
Feeding interface	1/8	1/8 and 1/4	1/4
Inlet pressure (Mpa)	⩽ 0.4	⩽ 0.4	⩽ 0.4
Needle specifications	8G-30G	8G-30G	8G-30G
Valve opening pressure (Mpa)	0.5-0.7	0.5-0.7	0.5-0.7

High-speed pneumatic dispensing valve controller MEST-F600C

Product Overview>>>MEST-F600C high-speed dispensing valve controller has two channels of air pressure adjustment, which can control the air pressure of the glue barrel. The input air pressure is 0.6-0.8Mpa, and the air pressure accuracy can reach 0.001Mpa.

Overall dimensions (mm)	280(W)*290(D)*120(H)
Input power	AC220V±10% 50Hz
Control signal type	24V level signal, pulse width greater than 5ms
Input air pressure (Mpa)	0.6-0.8
Air pressure accuracy (Mpa)	0.001
Air output	2 channels (glue pressure, valve pressure)
Output function module	temperature control, light source
Applicable valve types	suction valve, ejector valve, spray valve, etc. (F600)

High-speed Dispensing Controller MEST-F700C

Product Overview>>>MEST-F700C high-speed dispensing controller can control the glue barrel for dispensing. It has a vacuum suction function, an input air pressure of 0.1-0.8Mpa, an air pressure accuracy of up to 0.001Mpa, and a dispensing time range of 1.0-9999ms.

Model	MEST-F700C
Overall dimensions (mm)	200(W)*260(D)*100(H)
Input power	AC220V±10% 50Hz
Control signal type	Passive / active (24V) switching signal
Input air pressure (Mpa)	0.1-0.8
Air pressure accuracy (Mpa)	0.001
Dispensing timing range (ms)	1.0-9999
Output air pressure (Mpa)	0-0.7
Maximum dispensing frequency (Hz)	100
Applicable valve type	glue barrel

Stone Setting Robot MEST-D series

PRODUCT DESCRIPTION:

The Stone Setting machine has the characteristics of automatic bead suction and automatic setting. When the diamond moves to the product to be processed, ultrasonic waves are automatically generated, forming micro-amplitude and high-frequency vibrations on the rhinestone, which are instantly converted into heat to melt the material to be processed. Finally, the Setting is permanently attached or embedded on the surface of the product to be processed. The MEST-D series is a high-speed Stone Setting equipment independently developed by MEST. It can produce 12 heads at the same time and can produce up to 500,000 diamonds per day. It has high diamond placement quality, good glue consistency, and high diamond flatness. The equipment It can work 7*24 hours without stopping, with low failure rate and high production efficiency. This product is specifically used in products with rhinestones such as jewelry and apparel accessories.

Product advantages:

- The system can be upgraded. Special software can provide customers with free lifelong software upgrade services.
- The equipment's user-friendly handheld programmer has a touch function, which is convenient, practical and easy to operate; the written programs can be copied between multiple machines. When multiple machines make the same product, they only need to be programmed once; the software has The array copy function of the rotation axis greatly shortens the operator's teaching and programming time when making curved products.
- High stability: The equipment uses a marble base plate, which increases the counterweight of the equipment and provides good assembly accuracy for the whole machine; the XYZ three axes all use imported servo motors, which are stable, reliable, high-precision and have a long service life.
- High cost performance. Large-scale standardized production reduces the procurement cost of parts and the assembly cost of the complete machine.

MEST-D series

Overall size (mm)	1100(W)*700(D)*1250(H)
Product weight (KG)	≈ 300
Stone Setting speed (CPH)	40000（optimal conditions）
Average speed (CPH)	28000
Stone Setting accuracy（mm）	± 0 . 05
Type of Stone Setting	The software supports placement of no less than 20 types of stones
Stone setting model	supports various Settings of No. 1 Setting and above
Number of nozzles (pieces)	4 / 6 / 8 / 10 / 12(supports customization of the number of nozzles)
Nozzle spacing (mm)	60 / 70 / 100 / 118(supports customization of nozzle spacing)
Stone plate fixation method	Magnetic (left to right / up and down)
Main operating system	touch screen handle + Chinese and English operating system
Control system	Industrial grade motion controller
Drive system	servo motor
Transmission mode	Precision guide rail + screw rod
X/Y effective stroke (mm)	480*440*90
Programming method	handheld programmer teaching programming / direct program import
Working power supply	AC220V±10% 50Hz
Rated power (W)	1500
Working air pressure (Mpa)	⩾ 0.5

Wax Stone setting machine MEST-L series

PRODUCT DESCRIPTION:

MEST-L series wax stone setting machine is a high-speed wax setting equipment independently developed by MEST. It can produce 4-6 heads at the same time and can produce up to 240,000 diamonds per day. It has high diamond setting quality and good consistency and comes with diamond heating. Function, intelligent identification without missing holes, the equipment can work 7*24 hours without stopping, with low failure rate and high production efficiency. This product is suitable for wax-set jewelry.

Product advantages:

- The system can be upgraded. Special software can provide customers with free lifelong software upgrade services.
- The equipment is user-friendly. The handheld programmer has a touch function, which is convenient, practical and easy to operate.
- High stability: The equipment uses a marble base plate, which increases the counterweight of the equipment and provides good assembly accuracy for the whole machine; the XYZ three axes all use servo motors, which are stable, reliable, highly precise and have a long service life.
- High cost performance. Large-scale standardized production reduces the procurement cost of parts and the assembly cost of the complete machine. Small size, small space occupied, easy to transport.

	MEST-L single station	MEST-L double station
Overall size (mm)	800(W)*730(D)*1460(H)	970(W)*750(D)*1400(H)
Product weight (KG)	≈ 400	≈ 400
Average speed (CPH)	16000	18000~20000
Stone Setting accuracy	± 0 . 05	± 0 . 05
Types of Stone Setting	Supports a variety of diamond mixing operations	Supports a variety of diamond mixing operations
Stone Setting model	0.9mm and above	0.9mm and above
Number of nozzles (pieces)	4-6	4-6
Nozzle spacing (mm)	20	18
Stone plate fixation method	elastic ball compression	elastic buckle compression
Main operating system	Touch screen teaching pendant+Chinese and English operating systems	Touch screen teaching pendant+Chinese and English operating systems
Control system	industrial grade motion controller	industrial grade motion controller
Drive systems	Servo motors and step servo motors	Servo motors and step servo motors
Transmission mode	Precision guide rail + screw rod	Precision guide rail + screw rod
XYZ effective stroke (mm)	350*170*100（single）	540*170*75（double）
Programming method	Teaching programming with handheld programmer ｜ Direct program importing	Teaching programming with handheld programmer ｜ Direct program importing
Working power supply	AC220V±10% 50Hz	AC220V±10% 50Hz
Rated power (W)	1500	1500
Working air pressure (Mpa)	⩾ 0.5	⩾ 0.5

Visual UV printer

PRODUCT DESCRIPTION:

MEST visual UV printer uses non-contact UV inkjet printing, which can be printed and dried immediately without plate making. It can flexibly cope with a variety of printing applications and is stable and reliable for long-term and large-scale printing.

Product advantages:

- Equipped with a CIS wide-format scanning camera with its own light source.
- The UV printer can accurately identify materials, output the recognition image at 1:1, and has a scanning speed of 30mm/s, which can complete fast image calculations within 10s.
- It has a three-in-one (Sharpen image, scan, print) integrated software operating system, which can print with one click and is easy to operate.
- It can print on any flat material to meet the needs of various industries, such as print relief and varnish with exquisite effects.

Advantages of visual positioning function:

1.Intelligent identification and positioning without molds

Batch printing of products automatically identifies and positions and matches printing patterns. This eliminates the need for typesetting by printing product mold positioning, improving production efficiency and saving users' mold expenditure costs.

2. Liberation from positioning and placement

No positioning required. Compared with previous printing positioning frame lines and mold positioning methods, production efficiency and printing capacity are greatly improved.

3. The savior of special-shaped products

When printing special-shaped products, the camera accurately identifies the outline of the special-shaped product and automatically matches it through the template in the software. The matching accuracy is high, eliminating the problems of tedious manual positioning and poor accuracy.

4. Intelligent matching of multiple pictures without typesetting

Under the same printing height, different types of products can be printed (product thickness is the same). Different products can achieve intelligent matching of patterns, making the printing pattern more efficient and intelligent.

	MEST-UV 1612	MEST-UV 2513
Equipment' s length, width and height	2.2*3.2*1.5m	2.3*4.1*1.5m
Camera scanning range	1500*1200mm	2400mm*1300mm
Camera lifting height	0-70mm	0-70mm
Identification system	wide linear array vision solution	wide linear array vision solution
Nozzle type	Ricoh G5 | Ricoh G6 | Ricoh G5i	Ricoh G5 | Ricoh G6 | Ricoh G5i
Printing height	0-70mm adjustable	0-70mm adjustable
Print color	CMYK+LCLM+W1+W2+V	CMYK+LCLM+W1+W2+V
Number of nozzles	2-11 heads optional	2-11 heads optional
Printing accuracy	720*900DPI | 720*1200DPI | 720*1800DPI	720*900DPI | 720*1200DPI | 720*1800DPI
Lifting function	Electronic and automatic lifting of the ink truck | Manual intelligent sensor detection and height adjustment.	Electronic and automatic lifting of the ink truck | Manual intelligent sensor detection and height adjustment.
Data interface	High-speed USB transmission interface | Gigabit network port	High-speed USB transmission interface | Gigabit network port
RIP software	ColorGATE RIP | Photo print RIP | supports a variety of printing software	ColorGATE RIP | Photo print RIP | supports a variety of printing software
Operating System	Windows 10	Windows 10
Ink system	continuous ink supply/capacity 2000ml, two-level constant temperature and constant pressure ink supply, white ink intelligent stirring	continuous ink supply/capacity 2000ml, two-level constant temperature and constant pressure ink supply, white ink intelligent stirring
Working environment	Temperature: 20° ~32° , Humidity: 40~70%	Temperature: 20° ~32° , Humidity: 40~70%
Receive files	TIFF(RGB&CMYK)BMP、PDF、EPS、JPEG,etc.	TIFF(RGB&CMYK)BMP、PDF、EPS、JPEG,etc.
Power requirements	AC200V(±10%);50Hz;P:8000W|5000W	AC200V(±10%);50Hz;P:8000W|5000W
Equipment weight	900KG	1200KG

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