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产品手册 PRODUCT MANUAL 第六版 SIXTH EDITION



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诚信 专业 合作 共享
Integrity, professional, cooperation, sharing

诚信：诚实守信，恪守诺言，言必行，行必果
专业：因为钻研，所以专业，因为专注，所以稳定
合作：同心同力，共勉共进，互帮互助，共同发展
共享：共享知识，共享技术，分享经验，分享资源



用户第一 人性至上 创新·感恩 携手共赢
Best important of Client, Humanity of Top, Innovate, thanksgiving, win-win cooperation

用户第一：以客户为中心，服务于客户，与客户共成长，带领行业发展
人性至上：以人为本，以人生幸福为追求，团结合作，和谐发展
创新：技术创新，工艺创新，产品创新
感恩：感恩客户，感恩同事，感恩家人



立足现在（点胶设备） 服务未来（高端环保领先制造业）
Based on the present (Dispensing Robot), serving the future (full automatic production line)!

立足现在（点胶设备）：
不忘初心，利用现有客户，现有产品，现有技术，现有人员配置满足于现有公司的生存需要和目前市场的需求，让成熟的点胶设备实现高效，精准，快速，节能环保的点胶梦想。
服务未来（高端环保领先制造业）：
服务未来也是公司的未来，掌握一流技术，运用一流工艺，创造一流的产品，服务高端制造业，发展成高质量高服务高技术高效的现代化高创新型大规模制造工厂，具备高素质高效率的团队人员。
服务未来（远景）：
1、具备创新型的高技术工程软硬件技术设计人员，运用领先的技术不断满足尖端客户新产品的全自动化生产工艺。
2、制造高品质的设备，拥有匠心精神的学习型生产组，不断学习新技术，精细化工艺，不断创新提升生产效率和产品质量。拥有点胶行业最专业的生产组人员和检测人员。
3、建立钻研型和高质量的高效专业售后服务团队，响应客户，解决客户问题。1小时内回复客户问题，24小时内到达客户现场。
4、拥有强大的团队凝聚力和执行力销售团队，爱岗敬业，热爱本职工作，以天豪公司为荣，以天豪产品为豪。



创中国的品牌 树世界的品质
Create the Chinese brand, Has the quality of the world.

创天豪中国品牌设备，产品持续创新，用我们专业匠心将设备做到尽善尽美稳定可靠安全，口碑相传。树世界设备行业品质，把技术做到行业领先者，把天豪品质检测做到行业标准典范。



客户的每一件小事都是我们的大事
Every little thing of the customer is our big thing.



一丝不苟 尽善尽美 持续创新 不断学习
Meticulous, perfect, continuous innovation and learning.



不卑不亢 有礼有度 不乞不令
No humble, courteous, neither begging nor command.



慈溪市天豪电子科技有限公司（原东莞市天豪自动化设备有限公司）是国内自主研发、生产、销售、服务为一体的标准化点涂胶机器人生产企业。

公司开创于 2000 年广东东莞，自 2004 年成立公司至今已有 15 年发展历史，2008 年迁厂至浙江宁波成立“慈溪市天豪电子科技有限公司”，公司从 2006 年出口至今已有 13 年，产品远销全球 66 个国家和地区，并拥有 SGS 产品质量 CE 认证。公司被列入国际贸易公司同行业知名品牌，产品在国际点胶机行业上具有相当的影响力。

天豪成立之初为客户设计制作的点胶机设备，经历了十五年，至今仍然完好运行在生产一线。真正做到了为客户提供长久稳定可靠的点涂胶机器人产品，从根本上为客户创造更多的生产价值。

天豪工程师拥有十多年行业累积的经验，能够实现行业无法解决的点涂胶工艺。天豪公司为用户量身定制全自动化生产线的整体解决方案，积极帮助客户解决现代工业的各种生产和技术难题。

Cixi Tianhao Electric Technic Co., Ltd (Former Dongguan Tianhao Automation Equipment Co., Ltd) Professional glue dispensing robot manufacturer that integrates research and development, production, sales and service in China.

Tianhao Dispensing brand was originated from Dongguan in 2000. From 2004 establish company to now has been 15 years. At 2008, company be moved to Zhejiang Province, and changed company name to "Cixi Tianhao Electric Technic Co., Ltd".

Since the year of 2006, Our products have been exported to Western Europe, the Middle East, North America, South America, Australia, Company has SGS product quality CE certification, Company logo is listed in the international trade company's well-known brands in the same industry. The products have considerable influence in the international equipment industry.

The first dispensing robot designed and manufactured for

公司的产品应用于三千多个行业，其中包括汽车行业、LED 灯具行业、电子行业、医疗行业、工艺品行业、新能源行业、航空航天行业、家电行业等。其中知名客户有：

（国外）：美国 MICROSOFT（微软）公司、美国 SEALINK INTERNATIONAL（赛联）公司、美国 PARKER、西班牙普莱默集团 PREMO、新西兰 TEMPRECORD、巴西 CLIPTECH 等。

（国内）：东风汽车、双鹿电池、旭硝子、金田集团、徐工集团、方太、长鹰信质、亚太机电、弥勒浩翔、中国物理工程研究院、浙江大学等都在使用天豪的机器。

不断创新是公司一直以来的追求，从而致力于为客户提供更专业更全面的优质服务。

Tianhao engineers have more than ten years of accumulated industry experience, the industry cannot achieve the glue control technology, Tianhao engineers can make it. Tailor-made solutions for the most appropriate fully automated production line for the user, actively helping customers solve various production problems in modern industrial applications.

Continuous innovation is the company's constant pursuit, and is committed to providing customers with more professional and comprehensive quality services.

Our dispensing robot designed and manufactured be application in more than 3,000 industries, including the automotive industry, LED lighting industry, electronics industry, medical industry, handicraft industry, new energy industry, aerospace industry, home appliance industry and so on. Among the well-known customers are: (Foreign): Microsoft, American SeaLink International, Parker, PREMO Group, Temprecord, Brazil Cliptech, etc.



展厅区
SAMPLE EXHIBITION ROOM



前台 RECEPTION ZONE



办公区 BUSINESS CENTER



加工区 WORKSHOP FOR MACHINING



库存区 PRODUCT INVENTORY AREA



装配区
WORKSHOP FOR
ASSEMBLE

CERTIFICATE HONOR
荣誉证书



专利名称 PATENT NAME	专利号 NUMBER
一种螺丝打胶机 (发明) Thread coating machine(invention patent)	ZL 2010 1 0115438.6
一种螺丝打胶机 (实用) Thread coating machine(utility model patent)	ZL 2010 2 0120745.9
圆形打胶机 Rotary table coating machine	ZL 2010 2 0120880.3
椭圆打胶机 Oval gluing machine	ZL 2010 2 0120783.4
精密点涂胶机 Precision dispenser	ZL 2010 2 0120765.6
一种双液点胶机 Two component mix&meter dispensing machine	ZL 2010 2 0120750.X
三防漆涂胶机 Conformal coating machine	ZL 2010 2 0120775.X
电熨斗涂胶机 Electric Iron special coating equipment	ZL 2010 2 0120762.2
四轴点涂胶机 4axis dispensing robot	ZL 2010 2 0120777.9
一种新型柱塞式回吸胶枪 New Plunger type suckback valve	ZL 2010 2 0120744.4
一种新型微量胶枪 New Micro dispensing valve	ZL 2010 2 0120733.6
一种新型隔膜胶枪 New diaphragm valve	ZL 2010 2 0120752.9
一种条形码条束点胶机 Bar Code coating machine	ZL 2010 2 0120756.7
电池盖点胶机 Battery cover dispensing machine	ZL 2010 2 0120758.6
一种纸板自动包角机 Cardboard automatic corner wrapping machine	ZL 2010 2 0120869.7
一种新型柱塞式胶枪 New plunger valve	ZL 2010 2 0120742.5
一种独立式双液喷胶枪 Two component spraying valve	ZL 2015 2 0717766.1
一种晶体管散热器组装装置 Transistor radiator assemble machine	ZL 2015 2 0717752.X
一种螺丝送料装置 Screw feed device	ZL 2015 2 0717738.X
一种全自动定位焊线剪线一体装置 Full automatic soldering and cut wire machine	ZL 2015 2 0717768.0
一种全自动气动式夹紧旋转装置 Rotary filling glue and clamp system	ZL 2015 2 0717723.3
一种全自动凸轮筛盘送料装置 Full automatic CAM Tray feed system	ZL 2015 2 0717712.5
一种全自动装配保险管装置 Protective tube assemble machine	ZL 2015 2 0717684.7
一种旋转式双液胶装贴装置 Two component rotary pick place machine	ZL 2015 2 0717675.8
一种自动排线装置 Connector assembly machine	ZL 2015 2 0717649.5
一种电动推胶机 Electric pushing glue machine	ZL 2017 2 0928320.2

天豪国外部分客户合影 CLIENT MEETING PHOTO



BRAND CLIENT COOPERATION WITH OUR COMPANY

天豪部分合作客户



目录 CONTENT

· 天豪点涂胶机器人(A系列) DISPENSING ROBOT A SERIES (TIANHAO DISPENSING) 09/21

三轴点涂胶机器人TH-2004D Benthtop Dispensing Robot	P09	悬浮型三轴点涂胶机器人TH-206H Gantry Benchtop Robot	P15
针筒式点涂胶机器人TH-2004D-300K Benthtop Dispensing Robot with Syringe Micro Dispensing	P10	悬浮型针筒式点涂胶机器人TH-206H-K Gantry Benchtop Robot with Syringe Micro Dispensing	P16
胶阀式点涂胶机器人TH-2004D-300KJ Benthtop Dispensing Robot with Precision Valve Dispensing	P10	悬浮型胶阀式点涂胶机器人TH-206H-KJ Gantry Benchtop Robot with Suck Back Valve Dispensing	P16
旋转阀式硅胶点涂胶机器人TH-2004D-300KG3 Benthtop Dispensing Robot with Rotary Dispensing Valve	P11	悬浮型旋转阀式硅胶点涂胶机器人TH-206H-KG3 Gantry Benchtop Robot with Rotary Dispensing Valve	P17
310ml支装胶专用点涂胶机器人TH-2004D-300KG5 Bechtop Dispensing Robot with Precision Dispensing Valve for Silicone	P11	悬浮型310ml支装胶专用点涂胶机器人TH-206H-KG5 Gantry Bechtop Dispensing Robot with Precision Dispensing Valve for Silicone	P17
气压式双液点涂胶机器人TH-2004D-2004AB1 Benthtop Dispensing Robot for Two Component Mixing & Dispensing	P12	悬浮型气压式双液点涂胶机器人TH-206H-2004AB1 Gantry Benchtop Robot for Two Component Mixing & Dispensing	P18
气压式自动清洗双液点涂胶机器人TH-2004D-2004AB2 Benthtop Dispensing Robot for Epoxy Resin with Automatic Cleaning Function	P12	悬浮型气压式自动清洗双液点涂胶机器人TH-206H-2004AB2 Gantry Benchtop Robot for Epoxy Resin with Automatic Cleaning Function	P18
50ml针筒式双组份胶专用点涂胶机器人TH-2004D-206AB Benthtop Dispensing Machine for 50ml Dual Cartridge Packing AB Glue	P13	悬浮型50ml针筒式双组份胶专用点涂胶机器人TH-206H-206AB Gantry Benchtop Robot for 50ml Dual Cartridge Packing AB Glue	P19
台面型喷涂胶机器人TH-2004D-300PT Benthtop Dispensing Robot for Conformal Coating Spraying	P13	悬浮型台面型喷涂胶机器人TH-206H-PT Gantry Benchtop Robot for Conformal Coating Spraying	P19
针筒式四轴立面点涂胶机器人TH-2004D-R-300K 4 Axis Benchtop Dispensing Robot	P14	双工位四轴点涂胶机器人TH-2004D-530Y Dual Station Table Benchtop Dispensing Robots	P20
热熔胶专用点涂胶机器人TH-2004D-300ML Benthtop Dispensing Robot for Hot Melt Adhesive Glue	P14	CCD视觉三轴点涂胶机器人TH-2004C Benthtop Dispensing Robots with CCD Vision System by PC Programming	P21

· 天豪点涂胶机器人(B系列) INDUSTRIAL ROBOT B SERIES(TIANHAO DISPENSING) 22/27

三轴点涂胶机器人DH-3310D Desktop Industrial Robots	P22	气压式自动清洗双液点涂胶机器人DH-3310D-2004AB2 Benthtop Industrial Robot for Epoxy Resin with Automatic Cleaning Function	P25
针筒式点涂胶机器人DH-3310D-K Desktop Industrial Robots Syringe Micro Dispensing	P23	50ml针筒式双组份胶专用点涂胶机器人DH-3310D-206AB Desktop Industrial Robots for 50ml Dual Cartridge Packing AB Glue	P26
胶阀式点涂胶机器人DH-3310D-KJ Desktop Industrial Robots with Precision Valve Dispensing	P23	台面型喷涂胶机器人DH-3310D-PT Desktop Industrial Robots for Conformal Coating Spraying	P26
旋转阀式硅胶点涂胶机器人DH-3310D-KG3 Desktop Industrial Robots with Rotary Dispensing Valve	P24	热熔胶专用点涂胶机器人DH-3310D-R1 Desktop Industrial Robots for Hot Melt Adhesive Glue	P27
310ml支装胶专用点涂胶机器人DH-3310D-KG5 Desktop Industrial Robots with Dispensing Valve for 310ml Cartridge Silicone	P24	卧式点涂胶机器人DH-3310D-W Desktop Industrial Robots with Horizontal Rotary Axis	P27
气压式双液点涂胶机器人DH-3310D-2004AB1 Desktop Industrial Robots with Two Component Mixing & Dispensing	P25		

· 天豪螺纹专用涂胶机 THREAD COATING MACHINE(TIANHAO DISPENSING) 28/30

预涂胶型螺纹专用涂胶机（300CC针筒储料）TH-960L1 Thread Coating Machine with Syringe Dispensing for Per-coating Adhesive	P28	预涂胶型螺纹专用涂胶机（4升压力桶储料）TH-960L2-X4 Thread Coating Machine with Valve Dispensing for Per-coating Adhesive	P30
预涂胶型螺纹专用涂胶机（0.5升压力桶储料）TH-960L2 Thread Coating Machine with Valve Dispensing for Per-coating Adhesive	P29	针筒式螺纹专用涂胶机（30/55CC针筒储料）TH-960L5 Thread Coating Machine with Syringe Dispensing for Anaerobic Thread Sealant	P30
预涂胶型螺纹专用涂胶机（2升压力桶储料）TH-960L2-X2 Thread Coating Machine with Valve Dispensing for Threadlocker Adhesive	P29		

· 天豪圆形专用涂胶机 THREAD COATING MACHINE(TIANHAO DISPENSING) 31

针筒式圆形点涂胶机TH-2004L1-K Rotary Table Dispenser for Dispensing Circular Beads	P31	胶阀式圆形点涂胶机TH-2004L1-KJ Rotary Table Dispenser for Dispensing Circular Beads	P31
· 天豪点涂胶机 DISPENSER (TIANHAO DISPENSING) 32/37			
天豪定量点胶机TH-2004K Glue Dispenser	P32	大量定量涂胶机TH-2004KJ Liquid Dispensing Controller with Precision Valve	P35
天豪数码循环点胶机TH-2004KE Adhesive Dispenser	P32	快干胶专用定量点胶机TH-206B1 Peristaltic Pump Dispensing Controller	P35
天豪高精度数显点胶机TH-2004KT Precision Fluid Dispenser	P32	气压式双液定量点涂胶机TH-2004AB1 Epoxy Dispensing Machine with Two Component Mixing/Meter	P36
天豪高精度数显循环点胶机TH-2004KB Precision Fluid Dispenser with Digital and LED Display,Cycle Model	P32	气压式自动清洗双液定量点涂胶机TH-2004AB2 AB Glue Dispensing Machine with Automatic Cleaning Function	P36
硅胶玻璃胶定量打胶机TH-2004KG Silicon Dispenser	P34	定量点胶吸放一体机TH-206M Automatic Dispenser with Pick and Place	P37
50ml针筒式包装双组份胶专用定量点胶机TH-206AB Dual Cartridge Dispensers	P34	天豪吸放专用机TH-206S Pick Up System	P37

· 天豪胶阀 DISPENSING VALVE (TIANHAO DISPENSING) 38/39

天豪精密微量胶阀TH-100J Micro Dosing Valve	P38	天豪回吸胶阀TH-600J Poppet Valve with Suck Back	P38	天豪双液胶阀TH-700J Two Component Mix/Meter Valve	P39
天豪夹管胶阀TH-300J Pinch Tube Valve	P38	天豪加大型回吸硅胶阀TH-602J Poppet Valve with Suck Back	P39	天豪旋转硅胶阀TH-800J Constant Bead Rotary Dispensing Valve	P39

· 天豪储料压力桶 RESERVOIR TANKS(TIANHAO DISPENSING) 40

天豪储料压力桶TH-25Y/50Y/100Y Reservoir Tanks	P40
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· 天豪耗材 CONSUMABLE (TIANHAO DISPENSING) 41/43

塑座不锈钢针头 Plastic Stainless Steel Tips	P41	铁氟龙针头 PTFE (Teflon) Tips	P42	点胶针筒后盖 Barrel Piston	P43
全不锈钢针头 High Precision Stainless Steel Tips	P41	针筒 Barrel	P42	针筒通用头塞 Tip Cap	P43
PP挠性针头 Flexible Tips	P41	套头组件（针筒适配器） Plastic Head Syringe/Barrel Adapter	P42	三通 Tee	P43
锥形斜式针头 Taper Tips	P41	点胶针筒活塞 End Cap	P42	混合管 Mix Tube	P43

· 天豪非标机案例 CUSTOMIZED DISPENSING EQUIPMENT (TIANHAO DISPENSING) 44/45

落地型三轴点涂胶机器人（定制）TH-2004AD Robotic Dispensing Equipment(Customized)	P44	汽车母线涂胶组装机机器人（定制）TH-2004AE Industrial Dispensing Assembly Line Robots (Customized Equipment)	P45
电梯光幕点涂胶机器人（定制）TH-2004AD-LX Industrial Coating Equipment	P44	落地型三轴自动锁螺丝机器人（定制）TH-2004S-X Robotic Dispensing Equipment(Customized)	P45

· 流体粘度参照表 FLUID VISCOSITY REFERENCE TABLE 46

三轴点涂胶机器人TH-2004D

Bentchtop Dispensing Robot

专利号 Patent Number: ZL 2010 2 0120765.6

□ 三轴联动，同一平面任意位置自动作业

Continuous path motion for accurate XYZ movement
triaxial orientation (xyz) is realized be able to work on the complex-shaped surface with multiple identical objects

□ 替代人工 Instead of traditional manual operation mode

□ 安全环保 SGS CE Safety approved and environmental protection

► 产品应用 Application

* 取代传统人工作业方式，提高产品的生产效率和合格率，为企业创造更多的经济效益。

Instead of traditional manual operation mode, Increase production efficiency and Improve product quality, Create more economic benefits for the enterprise.



► 技术参数 Specification

规格型号ITEM	TH-2004D-300	TH-2004D-400	TH-2004D-500
移动范围 X/Y/Zworking range	300 x 300 x 100mm	400 x 400 x 100mm	500 x 500 x 100mm
外形尺寸 Dimensions (WxDxH)	500 x 580 x 610mm	600 x 680 x 610mm	700 x 780 x 610mm
本体重量 Weight	34kg	39kg	46kg
质量标准 Standard	CE认证CE Approved		
最大负载 XY/ZMaximum Load	10 kg / 3 kg		
重复精度 Repeatability	±0.02mm		
定位精度 Resolution	±0.001mm		
移动速度 XY/Z Speed	0-800/350 mm/Axis		
轨迹存储容量 Data memory capacity	9999组 (1000步每组) 9999Group (1000Point/Group)		
显示方式 Display way	液晶显示屏LCD display		
驱动系统 Drive System	微步进精密马达Precision micro-stepper motor		
传动方式 Transmission	同步带/精密直线导轨Timing Belt/ Precision Linear Guides		
编程模式 Edit Programming	天豪手持编程器 Handheld Programmer		
I/O讯号 I/O Signals	4 Inputs / 4 Outputs		
数据导入 Port allows for data	USB导入口允许数据在电脑和设备中传输及CAD图形导入转化运动轨迹识别功能 USB port allows for data transfer between PC and CAD file download capability allow changes to dispensing path.		
插补功能 Patterns	点/线/圆弧/3D Lines, Circles, Arcs, Continuous Paths, XYZ simultaneous (CP) 3D		
电源输入 Power Supply	AC110V/220V (内部开关转换)Internal conversion		
工作环境温度 Working Temperature	0 ~ 40℃		
工作环境湿度 Relative Humidity	20 ~ 90% (无结露) (no condensation)		

针筒式点涂胶机器人TH-2004D-300K

Bentchtop Dispensing Robot with Syringe Micro Dispensing

专利号 Patent Number: ZL 2010 2 0120765.6

□ 针筒式储料方式

Feed system is syringe(3cc,5cc,10cc,30cc,55cc,300cc option)

□ 90%以上胶水等流体通用

Suitable for a wide range of liquid material dispensing

□ 高精度胶量控制系统

Liquid dispensing controller system with Suck-back ensures no dripping

► 产品应用 Application

* 适用于小胶量的产品精密点胶工艺需求。

Good for Micro dispensing on accurate products .

* 常用胶水特性：快干胶、厌氧胶、UV胶、液体胶、膏状胶、油漆、油墨、油脂、润滑油、锡膏等。

Liquid material : glue, silicone, RTV, cyanoacrylate, grease, anaerobic, and UV cure resins.

* 常用胶水包装：牙膏装、袋装（散装）、针筒装、小瓶装、小罐装等。
Packing capacity: toothpaste, bags (bulk), syringes, vial, small cans, etc.



胶阀式点涂胶机器人TH-2004D-300KJ

Bentchtop Dispensing Robot with Precision Valve Dispensing

专利号 Patent Number: ZL 2010 2 0120765.6

□ 压力桶式储料方式

Feed system of 4liter tank(0.5 liter, 2liter,4liter,20liter)

□ 回吸式精密胶阀，防滴漏

Valve is Precision suck back valve, close glue quickly, ensures no dripping

□ 高精度胶量控制系统

High precision liquid controller system

► 产品应用 Application

* 适用于中低粘度胶水的产品大胶量精密点涂胶工艺需求。

Suitable for low viscosity glue product precision coating process requirement in mass production.

* 常用胶水特性：UV胶、液体胶、润滑油等。

Liquid Material: UV adhesive, glue, cyanoacrylate, oil.

* 常用胶水包装：罐装、桶装等。

Packing capacity: tank (0.5liter, 2liter, 4liter, 20liter can option).



旋转阀式硅胶点涂胶机器人TH-2004D-300KG3

Benchtop Dispensing Robot with Rotary Dispensing Valve

专利号 Patent Number: ZL 2010 2 0120765.6

310ml硬包支装胶专用储料胶筒

Feed system is 310ml cartridge silicon, Good for storage material by 310ml,400ml,500ml,600ml cartridge hard packing.

旋转阀式精密硅胶阀, 关断迅速无残留

Rotary dispensing valve Suitable for high viscosity fluids, Constant uniform bead dispensing.

高精密度量控制系统

High precision liquid controller system

产品应用 Application

* 适用于310ml硬包支装膏状胶的产品精密点涂胶工艺需求。
Good for storage material by 310ml cartridge hard packing. Precision dispensing silicone on the product.

* 常用胶水特性: 硅胶、玻璃胶、平面密封胶等膏状胶。
Liquid Material: adhesive, glue, silicone, RTV, sealant, paste adhesive.

* 常用胶水包装: 310ml硬包支装。
Packing capacity: 310ml, 400ml, 500ml, 600ml cartridge hard packing.



310ml支装胶专用点涂胶机器人TH-2004D-300KG5

Benchtop Dispensing Robot with Precision Dispensing Valve for Silicone

专利号 Patent Number: ZL 2010 2 0120765.6

310ml硬包支装胶专用储料胶筒

Feed system of 310ml cartridge packing. Good for storage material by 310ml,400ml,500ml,600ml cartridge hard packing, easy loading and unloading.

回吸式精密胶阀, 关断迅速无残留

Valve is Precision suck back valve, close glue quickly, ensures no dripping.

高精密度量控制系统

High Precision Liquid dispensing controller system.

产品应用 Application

* 适用于310ml硬包支装胶的产品精密点涂胶工艺需求。
Good for storage material by 310ml cartridge hard packing. Precision dispensing silicone on the product.

* 常用胶水特性: 硅胶、玻璃胶、平面密封胶、UV胶等。
Liquid Material: adhesive, glue, silicone, RTV, sealant, UV.

* 常用胶水包装: 310ml硬包支装。
Packing capacity: 310ml, 400ml, 500ml, 600ml cartridge hard packing.



气压式双液点涂胶机器人TH-2004D-2004AB1

Benchtop Dispensing Robot for Two Component Mixing & Dispensing

专利号 Patent Number: ZL 2010 2 0120750.X

压力桶式储料方式

Feed system is 4 liter tank large capacity for liquid material. Other have 0.5 liter, 2liter, 20 liter can option

双液回吸式精密胶阀, 关胶迅速无滴漏

Two component accuracy suck-back dispensing valve

高精密度量控制系统

High Precision Liquid dispensing controller system

产品应用 Application

* 适用于中低粘度 (低于10000cps) AB胶1:1—1:3之间自动定量混合的产品精密点涂胶工艺需求。
Good for viscosity less 10000cps before mixing, mixing ratio by weight is 1:1 to 1:3, precision dispensing.

* 常用胶水特性: 环氧树脂类AB胶、有机硅类AB胶、聚氨酯类AB胶等。
Liquid Material: AB glue, epoxy resin, PU glue, Two component material, two part mixing material.

* 常用胶水包装: 桶装。
Packing capacity: tank (2liter, 4liter, 20liter can option)



气压式自动清洗双液点涂胶机器人TH-2004D-2004AB2

Benchtop Dispensing Robot for Epoxy Resin with Automatic Cleaning Function

专利号 Patent Number: ZL 2010 2 0120750.X

压力桶式储料及自动清洗方式

Feed system of 2pcs of 4 liter tank and 1pcs of 2 liter tank, Reservoir Tanks are used to feed bulk fluids to a valve.

双液回吸式精密胶阀, 关胶迅速无滴漏

Valve is Precision suck back valve, close glue quickly, ensures no dripping.

高精密度量控制系统

High precision liquid controller system.

产品应用 Application

* 适用于中低粘度 (低于10000cps) AB胶1:1—1:3之间自动定量混合的产品精密点涂胶工艺需求。
Good for precision dispensing low to medium viscosity liquids (less 10000cps), mixing ratio from 1:1-1:3 by weight.

* 常用胶水特性: 环氧树脂类AB胶、有机硅类AB胶、聚氨酯类AB胶等。
Liquid Material: Epoxy resin, AB glue, adhesive, epoxy glue ab, two component, two part/2 part(ab) epoxy glue.

* 常用胶水包装: 桶装。
Packing capacity: tank (0.5liter, 2liter, 4liter, 20liter can option).



50ml针筒式双组份胶专用点涂胶机器人TH-2004D-206AB

Benchtop Dispensing Machine for 50ml Dual Cartridge Packing AB Glue

专利号 Patent Number: ZL 2010 2 0120765.6

- 50ml针筒式双组份胶专用
Feed system is 50ml dual cartridge packing two part glue
- 小胶量AB胶定量点胶工艺
Dual cartridge valve good for Micro ab glue dispensing
- 高精密度量控制系统
High Precision Liquid dispensing controller system

▶ 产品应用 Application

- * 适用于50ml针筒式包装双组份胶的自动定量混合的产品精密点涂胶工艺需求。
Good for Micro ab glue dispensing with 50ml dual cartridge packing.
- * 常用胶水特性：丙烯酸酯AB结构胶、环氧AB结构胶、聚氨酯AB结构胶等。
Liquid Material: AB glue, Epoxy resin, two part glue, 2 part glue.
- * 常用胶水包装：50ml双组份针筒式包装。
Packing capacity: 50ml dual cartridge.



台面型喷涂胶机器人TH-2004D-300PT

Benchtop Dispensing Robot for Conformal Coating Spraying

专利号 Patent Number: ZL 2010 2 0120775.X

- 压力桶式储料方式
Feed system of 4liter tank(0.5 liter, 2liter, 4liter, 20liter).
- 低粘度胶精密喷嘴
Good for low viscosity conformal coating spraying glue.
- 高精密度量控制系统
High precision dispensing controller system.

▶ 产品应用 Application

- * 适用于低粘度胶自动精密定量喷涂胶产品工艺需求。
Good for low viscosity precision spraying coating on product surface.
- * 常用胶水特性：三防漆等低粘度胶（流体）。
Liquid Material: conformal coating adhesive.
- * 常用胶水包装：桶装。
Packing capacity: tank (0.5liter, 2liter, 4liter, 20liter can option)



针筒式四轴立面点涂胶机器人TH-2004D-R-300K

4 Axis Benchtop Dispensing Robot

专利号 Patent Number: ZL 2010 2 0120777.9

- 产品侧面点涂胶工艺
Feed system with syringe dispensing, Full 4-axis simultaneous positioning.
- 四轴四联动及小胶量点涂胶工艺
Four axis and four-linkage running, R-axis: 360° rotation for ID and OD dispensing.
- 高精密度量控制系统
High Precision Liquid dispensing controller system

▶ 产品应用 Application

- * 适用于产品侧面小胶量的自动精密定量点涂胶产品工艺需求。
TH-2004D-R provides a 4-axis rotational "U" action for applying adhesives and sealants on curved, vertical or difficult to reach applications.
- * 常用胶水特性：快干胶、厌氧胶、UV胶、液体胶、膏状胶、油漆、油墨、油脂、润滑油、锡膏等。
Liquid Material: adhesive, glue, silicone, RTV, cyanoacrylate, grease, anaerobic, and UV cure resins.
- * 常用胶水包装：牙膏管、袋装（散装）、针筒装、小瓶装、小罐装等。
Packing capacity: toothpaste, bags (bulk), syringes, vial, small cans, etc.



热熔胶专用点涂胶机器人TH-2004D-300ML

Benchtop Dispensing Robot for Hot Melt Adhesive Glue

专利号 Patent Number: ZL 2010 2 0120765.6

- 热熔胶专用储料加热装置
Feed system of hot melt heating tank, avoid frequent add glue, Good for granular and striped solid hot glue.
- 热熔胶专用加热型精密胶阀
Precision heating Valve is Precision suck back valve, close glue quickly, ensures no dripping.
- 高精密度量控制系统
High Precision Liquid dispensing controller system.

▶ 产品应用 Application

- * 适用于热熔胶点涂胶产品工艺需求的自动精密定量作业。
Good for hot melt spraying and coating on clothes and carve cards, Diaper wet.
- * 常用胶水特性：热熔胶。
Liquid Material: hot melt glue, hot melt adhesive.
- * 常用胶水包装：条状、块状、颗粒状等。
Packing capacity: granular hot melt adhesive and striped solid hot glue.



悬浮型三轴点涂胶机器人TH-206H

Gantry Benchtop Robot

专利号 Patent Number: ZL 2010 2 0120765.6

□ 悬浮型结构，三轴联动

Compact Gantry Benchtop Robot lies in its ability to any work surface. This feature allows for heavier tool loads on the worktable. The system is suitable for use on any type of platform requiring a gantry type mounting with open access under the robot.

□ 替代人工 Instead of traditional manual operation mode

□ 安全环保 SGS CE Safety approved and environmental protection

▶ 产品应用 Application

取代传统人工作业方式，提高产品的生产效率 and 合格率，为企业创造更多的经济效益。
Instead of traditional manual operation mode, Increase production efficiency and Improve product quality. Create more economic benefits for the enterprise.



▶ 技术参数 Specification

规格型号ITEM	TH-206H
移动范围 X/Y/Zworking range	300 x 300 x 100mm
外形尺寸 Dimensions (WxDxH)	600 x 520 x 610mm
本体重量 Weight	34kg
质量标准 Standard	CE认证CE Approved
最大负载 XY/ZMaximum Load	10 kg / 3 kg
重复精度 Repeatability	±0.02mm
定位精度 Resolution	±0.001mm
移动速度 XY/Z Speed	0-800/350 mm/Axis
轨迹存储量 Data memory capacity	9999组 (1000步/组) 9999Group (1000Point/Group)
显示方式 Display way	液晶显示屏LCD display
驱动系统 Drive System	微步进精密马达 Precision micro-stepper motor
传动方式 Transmission	同步带/精密直线导轨 Timing Belt/ Precision Linear Guides
编程模式 Edit Programming	天豪手持编程器 Handheld Programmer
I/O讯号 I/O signals	4 Inputs / 4 Outputs
数据导入 Port allows for data	USB导入口允许数据在电脑和设备中传输 USB port allows for data transfer between PC
插补功能 Patterns	点/线/圆弧/3DLines, Cirdes, Arcs, Continuous Paths, XYZ simultaneous (CP) 3D
电源输入 Power Supply	AC110V/220V (内部开关转换)Internal conversion
工作环境温度 Working Temperature	0 ~ 40℃
工作环境湿度 Relative Humidity	20 ~ 90% (无结露) (no condensation)

悬浮型针筒式点涂胶机器人TH-206H-K

Gantry Benchtop Robot with Syringe Micro Dispensing

专利号 Patent Number: ZL 2010 2 0120765.6

□ 针筒式储料方式

Feed system of 30cc syringe(3cc,5cc,10cc,30cc,55cc,300cc option).

□ 90%以上胶水等流体通用

Suitable for a wide range of dispensing.

□ 高精度胶量控制系统

Liquid dispensing controller system with Suck-back ensures no dripping.

▶ 产品应用 Application

- * 适用于小胶量的产品精密点胶以及产品点胶工作台面不移动的工艺需求。
Gantry Benchtop robots make manual processes easier, saving costs in material waste, rejects, time, and labor. With a variety of models and styles available, there's a solution for your unique application.
- * 常用胶水特性：快干胶、厌氧胶、UV胶、液体胶、膏状胶、油漆、油墨、油脂、润滑油、锡膏等。
Liquid Material:Applying adhesive, glue, silicone, RTV, cyanoacrylate, grease, anaerobic, and UV cure resins.oil.
- * 常用胶水包装：牙膏装、袋装（散装）、针筒装、小瓶装、小罐装等。
Packing capacity:toothpaste, bags (bulk), syringes, vial, small cans, etc.



悬浮型胶阀式点涂胶机器人TH-206H-KJ

Gantry Benchtop Robot with Suck Back Valve Dispensing

专利号 Patent Number: ZL 2010 2 0120765.6

□ 压力桶式储料方式

Feed system of 4liter tank(0.5 liter, 2liter,4liter,20liter).

□ 回吸式精密胶阀，防滴漏

Precision suck-back valve,close glue quickly,ensures no dripping.

□ 高精度胶量控制系统

High Precision Liquid dispensing controller system.

▶ 产品应用 Application

- * 适用于中低粘度胶水的产品大胶量精密点涂胶以及产品点涂胶工作台面不移动的工艺需求。
Suitable for low viscosity glue product precision coating process requirement in mass production.
- * 常用胶水特性：UV胶、液体胶、润滑油等。
Liquid Material:adhesive, glue, uv glue,oil .
- * 常用胶水包装：罐装、桶装等。
Packing capacity:tank (0.5liter,2liter,4liter,20liter can option).



悬浮型旋转阀式硅胶点涂胶机器人TH-206H-KG3

Gantry Benchtop Robot with Rotary Dispensing Valve

专利号 Patent Number: ZL 2010 2 0120765.6

310ml硬包支装胶专用储料胶筒

Feed system is 310ml cartridge silicone, Good for storage material by 310ml, 400ml, 500ml, 600ml cartridge hard packing.

旋转阀式精密硅胶阀, 关断迅速无残留

Rotary dispensing valve Suitable for high viscosity fluids, Constant uniform bead dispensing.

高精度流量控制系统

High precision liquid controller system

产品应用 Application

* 适用于310ml硬包支装膏状胶的产品精密点涂胶以及产品点涂胶工作台面不移动的工艺需求。

Good for storage material by 310ml cartridge hard packing. Precision dispensing silicone on the product.

* 常用胶水特性: 硅胶、玻璃胶、平面密封胶等膏状胶。
Liquid Material: adhesive, glue, silicone, RTV, sealant, paste adhesive.

* 常用胶水包装: 310ml硬包支装。
Packing capacity: 310ml, 400ml, 500ml, 600ml cartridge hard packing.



悬浮型310ml支装胶专用点涂胶机器人TH-206H-KG5

Gantry Benchtop Dispensing Robot with Precision Dispensing Valve for Silicone

专利号 Patent Number: ZL 2010 2 0120765.6

310ml硬包支装胶专用储料胶筒

Feed system of 310ml cartridge packing, Good for storage material by 310ml, 400ml, 500ml, 600ml cartridge hard packing, easy loading and unloading.

回吸式精密硅胶阀, 关断迅速无残留

Valve is Precision suck back valve, close glue quickly, ensures no dripping.

高精度流量控制系统

High precision dispensing controller system.

产品应用 Application

* 适用于310ml硬包支装胶的产品精密点涂胶以及产品点涂胶工作台面不移动的工艺需求。

Good for storage material by 310ml cartridge hard packing. Precision dispensing silicone on the product.

* 常用胶水特性: 硅胶、玻璃胶、平面密封胶、UV胶等。
Liquid Material: adhesive, glue, silicone, RTV, sealant, UV.

* 常用胶水包装: 310ml硬包支装。
Packing capacity: 310ml, 400ml, 500ml, 600ml cartridge hard packing.



悬浮型气压式双液点涂胶机器人TH-206H-2004AB1

Gantry Benchtop Robot for Two Component Mixing & Dispensing

专利号 Patent Number: ZL 2010 2 0120750.X

压力桶式储料方式

Feed system is 4 liter tank large capacity for liquid material. Other have 0.5 liter, 2liter, 20 liter can option.

双液回吸式精密胶阀, 关断迅速无滴漏

Two component accuracy suck-back dispensing valve.

高精度流量控制系统

High Precision Liquid dispensing controller system

产品应用 Application

* 适用于中低粘度 (低于10000cps) AB胶1:1—1:3之间自动定量混合的产品精密点涂胶以及产品点涂胶工作台面不移动的工艺需求。

Good for viscosity less 10000cps before mixing, mixing ratio by weight is 1:1 to 1:3, precision dispensing.

* 常用胶水特性: 环氧树脂类AB胶、有机硅类AB胶、聚氨酯类AB胶等。

Liquid Material: AB glue, epoxy resin, PU glue, Two component material, two part mixing material.

* 常用胶水包装: 桶装。
Packing capacity: tank (2liter, 4liter, 20liter can option)



悬浮型气压式自动清洗双液点涂胶机器人TH-206H-2004AB2

Gantry Benchtop Robot for Epoxy Resin with Automatic Cleaning Function

专利号 Patent Number: ZL 2010 2 0120750.X

压力桶式储料及自动清洗方式

Feed system of 2pcs of 4 liter tank and 1pcs of 2 liter tank, Reservoir Tanks are used to feed bulk fluids to a valve.

双液回吸式精密胶阀, 关断迅速无滴漏

Valve is Precision suck back valve, close glue quickly, ensures no dripping.

高精度流量控制系统

High Precision Liquid dispensing controller system.

产品应用 Application

* 适用于中低粘度 (低于10000cps) AB胶1:1—1:3之间自动定量混合的产品精密点涂胶以及产品点涂胶工作台面不移动的工艺需求。

Good for precision dispensing low to medium viscosity liquids (less 10000cps), mixing ratio from 1:1-1:3 by weight.

* 常用胶水特性: 环氧树脂类AB胶、有机硅类AB胶、聚氨酯类AB胶等。

Liquid Material: Epoxy resin, AB glue, ab adhesive, epoxy glue ab, two component, two part/2 part (ab)epoxy glue.

* 常用胶水包装: 桶装。
Packing capacity: tank (0.5liter, 2liter, 4liter, 20liter can option).



悬浮型50ml针筒式双组份胶专用点涂胶机器人TH-206H-206AB

Gantry Benchtop Robot for 50ml Dual Cartridge Packing AB Glue

专利号 Patent Number: ZL 2010 2 0120765.6

50ml针筒式双组份胶专用

Feed system is 50ml dual cartridge packing two part glue.

小胶量AB胶定量点胶工艺

Dual cartridge valve good for Micro ab glue dispensing.

高精度胶量控制系统

High precision liquid controller system.

产品应用 Application

* 适用于50ml针筒式包装双组份胶的自动定量混合的产品精密点涂胶以及产品点涂胶工作台面不移动的工艺需求。

Good for Micro ab glue dispensing with 50ml dual cartridge packing.

* 常用胶水特性：丙烯酸酯AB结构胶、环氧AB结构胶、聚氨酯AB结构胶等。

Liquid Material: AB glue, Epoxy resin, two part glue, 2 part glue.

* 常用胶水包装：50ml双组份针筒式包装。
Packing capacity: 50ml dual cartridge.



悬浮型台面型喷涂胶机器人TH-206H-PT

Gantry Benchtop Robot for Conformal Coating Spraying

专利号 Patent Number: ZL 2010 2 0120775.X

压力桶式储料方式

Feed system of 4liter tank(0.5 liter, 2liter, 4liter, 20liter).

低粘度胶精密喷阀

Good for low viscosity conformal coating spraying glue.

高精度胶量控制系统

High precision dispensing controller system.

产品应用 Application

* 适用于低粘度胶自动精密定量喷涂胶产品以及产品点涂胶工作台面不移动的工艺需求。

Good for low viscosity precision spraying coating on product surface.

* 常用胶水特性：三防漆等低粘度胶（流体）。
Liquid Material: conformal coating adhesive.

* 常用胶水包装：桶装。
Packing capacity: tank (0.5liter, 2liter, 4liter, 20liter can option).



双工位四轴点涂胶机器人TH-2004D-530Y

Dual Station Table Benchtop Dispensing Robots

专利号 Patent Number: ZL 2010 2 0120765.6

双工位结构，交替作业

Dual station model available. This feature allows alternate work on both the worktable.

替代人工

Instead of traditional manual operation mode.

安全环保

SGS CE Safety Approved and environmental protection.

产品应用 Application

* 取代传统人工作业方式，提高产品的生产效率和合格率，为企业创造更多的经济效益。

Increase production efficiency Promotion processing precision control Improve product quality lower production costs, reduce rejected product Eliminate material waste Create more economic benefits for the enterprise.



技术参数 Specification

规格型号ITEM	TH-2004D-530Y
移动范围 X/Y/Zworking range	500 x 300 x 300 x 100mm
外形尺寸 Dimensions (WxDxH)	700 x 580 x 610mm
本体重量 Weight	45kg
质量标准 Standard	CE认证CE Approved
最大负载 XY/ZMaximum Load	10 kg / 3 kg
重复精度 Repeatability	±0.02mm
定位精度 Resolution	±0.001mm
移动速度 XY/Z Speed	0-800/350 mm/Axis
轨迹存储量 Data memory capacity	9999组 (1000步每组) 9999Group (1000Point/Group)
显示方式 Display way	液晶显示屏 LCD display
驱动系统 Drive System	微步进精密马达Precision micro-stepper motor
传动方式 Transmission	同步带/精密直线导轨Timing Belt/ Precision Linear Guides
编程模式 Edit Programming	天豪手持编程器 Handheld Programmer
I/O讯号 I/O Signals	4 Inputs / 4 Outputs
数据导入Port allows for data	USB导入口允许数据在电脑和设备中传输 USB port allows for data transfer between PC
插补功能 Patterns	点/线/圆弧/3DLines, Circles, Arcs, Continuous Paths, XYZ simultaneous (CP) 3D
电源输入 Power Supply	AC110V/220V (内部开关转换)Internal conversion
工作环境温度 Working Temperature	0 ~ 40°C
工作环境湿度 Relative Humidity	20 ~ 90% (无结露) (no condensation)

CCD视觉三轴点涂胶机器人TH-2004C

Benchtop Dispensing Robots with CCD Vision System by PC Programming

专利号 Patent Number: ZL 2010 2 0120765.6

□ CCD视觉及PC辅助精准编程

CCD vision system by PC programming.

□ 伺服丝杆，定位更精准

Servo-motor driven ball screw design. Benchtop Robots boast a robust servo-motor driven ball screw design. This feature allows for heavier tool loads on both the worktable and the z-axis making this robot tough enough for a wide range of automated applications.

□ 替代人工，全不锈钢材质，安全环保

Instead of traditional manual operation mode
SGS CE Safety Approved and environmental protection

► 产品应用 Application

* 取代传统人工作业方式，提高产品的生产效率和合格率，为企业创造更多的经济效益。

Increase production efficiency Promotion processing precision control Improve product quality lower production costs, reduce rejected product Eliminate material waste Create more economic benefits for the enterprise.



► 技术参数 Specification

规格型号ITEM	TH-2004C
移动范围 X/Y/Zworking range	300 x 300 x 100mm
外形尺寸 Dimensions (WxDxH)	500 x 580 x 610mm
本体重量 Weight	42KG
质量标准 Standard	CE认证CE Approved
最大负载 XY/ZMaximum Load	15 kg / 5 kg
重复精度 Repeatability	±0.01mm
定位精度 Resolution	±0.001mm
移动速度 X/Y/Z Speed	0-800/350 mm/Axis
轨迹存储量 Data memory capacity	硬盘无限存储 No limit HD
对位方式 Positioning	电子式十字线标靶 CCD visual imaging systems /Electric "+target confirm place
视觉系统 Imaging	CCD影像视窗/模拟轨迹视窗 advance of CCD image location
驱动系统 Drive System	伺服马达 AC servo motor
传动方式 Transmission	丝杆+线性导轨 Threaded rod + Linear guide
编程模式 Edit Programming	摇杆/鼠标/键盘 Rocker/mouse/Keyboard
控制方式 Control Method	PC控制、液晶显示器 PC control, LCD display
软件系统 Software	天豪三轴点涂胶机软件控制系统 TianHao 3 axis dispensing software
插补功能 Patterns	点/线/圆弧/3DLines, Circles, Arcs, Continuous Paths, XYZ simultaneous (CP) 3D
电源输入 Power Supply	AC110V/220V (内部开关转换)Internal conversion
工作环境温度 Working Temperature	0 ~ 40°C
工作环境湿度 Relative Humidity	20 ~ 90% (无结露) (no condensation)

三轴点涂胶机器人DH-3310D

Desktop Industrial Robots

专利号 Patent Number: ZL 2010 2 0120765.6

□ 三轴联动

Continuous path motion for accurate XYZ movement triaxial orientation (xyz) is realized be able to work on the complex-shaped surface with multiple identical objects.

□ 替代人工 Instead of traditional manual operation mode.

□ 安全环保 SGS CE Safety Approved and environmental protection.

► 产品应用 Application

* 取代传统人工作业方式，提高产品的生产效率和合格率，为企业创造更多的经济效益。

Increase production efficiency Promotion processing precision control Improve product quality lower production costs, reduce rejected product Eliminate material waste Create more economic benefits for the enterprise.



► 技术参数 Specification

规格型号ITEM	DH-3310D
移动范围 X/Y/Zworking range	300 x 300 x 100mm
外形尺寸 Dimensions (WxDxH)	500 x 580 x 610mm
本体重量 Weight	35kg
质量标准 Standard	CE认证CE Approved
最大负载 XY/ZMaximum Load	8kg / 2kg
重复精度 Repeatability	±0.02mm
移动速度 X/Y/Z Speed	0-600/300 mm/Axis
轨迹存储量 Data memory capacity	99组 (1000步每组) 99Group (1000Point/Group)
编程模式 Edit Programming	手持示教编程 Teachpend
驱动系统 Drive System	步进系统 Micro-stepper motor
传动方式 Transmission	同步带/精密直线导轨Timing Belt/ Precision Linear Guides
安全防护 Edit Programming	光电传感器 Optical coupling sensor
I/O讯号 I/O Signals	4 Inputs / 4 Outputs
插补功能 Patterns	点/线/圆弧/3DLines, Circles, Arcs, Continuous Paths, XYZ simultaneous (CP) 3D
电源输入 Power Supply	AC110V/220V (内部开关转换)Internal conversion
工作环境温度 Working Temperature	0 ~ 40°C
工作环境湿度 Relative Humidity	20 ~ 90% (无结露) (no condensation)

针筒式点涂胶机器人DH-3310D-K

Desktop Industrial Robots Syringe Micro Dispensing

专利号 Patent Number: ZL 2010 2 0120765.6

- 适用90%以上胶水
Suitable for a wide range of liquid material dispensing.
- 针筒式(小胶量工艺)
Syringe micro dispensing, Feed system is syringe (3cc, 5cc, 10cc, 30cc, 55cc, 300cc option).
- 搭载精密控胶装置
Liquid dispensing controller system with Suck-back ensures no dripping.

► 产品应用 Application

- * 适用于小胶量的产品精密点胶工艺需求。
Good for Micro dispensing on accurate products .
- * 常用胶水特性：快干胶、厌氧胶、UV胶、液体胶、膏状胶、油漆、油墨、油脂、润滑油、锡膏等。
Liquid material : glue, silicone, RTV, cyanoacrylate, grease, anaerobic, and UV cure resins.
- * 常用胶水包装：牙膏装、袋装（散装）、针筒装、小瓶装、小罐装等。
Packing capacity: toothpaste, bags (bulk), syringes, vial, small cans, etc.



胶阀式点涂胶机器人DH-3310D-KJ

Desktop Industrial Robots with Precision Valve Dispensing

专利号 Patent Number: ZL 2010 2 0120765.6

- 回吸胶阀，防滴漏
Valve is Precision suck back valve, close glue quickly, ensures no dripping.
- 储料桶式(大胶量工艺)
Feed system of 4liter tank(0.5 liter, 2liter, 4liter, 20liter).
- 精准的出胶量控制
High precision liquid controller system.

► 产品应用 Application

- * 适用于中低粘度胶水的产品大胶量精密点涂胶工艺需求。
Suitable for low viscosity glue product precision coating process requirement in mass production.
- * 常用胶水特性：UV胶、液体胶、润滑油等。
Liquid Material: UV adhesive, glue, silicone, RTV, cyanoacrylate, oil.
- * 常用胶水包装：罐装、桶装等。
Packing capacity: tank (0.5liter, 2liter, 4liter, 20liter can option).



旋转阀式硅胶点涂胶机器人DH-3310D-KG3

Desktop Industrial Robots with Rotary Dispensing Valve

专利号 Patent Number: ZL 2010 2 0120765.6

- 陶瓷胶阀，更长寿命
Ceramic Rotary dispensing valve Suitable for high viscosity fluids, Constant uniform bead dispensing, longer service life.
- 断胶迅速，避免拉丝
Close glue quickly, avoid drawing.
- 310ml装胶专用
Feed system is 310ml cartridge silicone, Good for storage material by 310ml, 400ml, 500ml, 600ml cartridge hard packing.

► 产品应用 Application

- * 适用于310ml硬包支装膏状胶的产品精密点涂胶工艺需求。
Good for storage material by 310ml cartridge hard packing. Precision dispensing silicone on the product.
- * 常用胶水特性：硅胶、玻璃胶、平面密封胶等膏状胶。
Liquid Material: adhesive, glue, silicone, RTV, sealant, paste adhesive.
- * 常用胶水包装：310ml硬包支装。
Packing capacity: 310ml, 400ml, 500ml, 600ml cartridge hard packing.



310ml支装胶专用点涂胶机器人DH-3310D-KG5

Desktop Industrial Robots with Dispensing Valve for 310ml Cartridge Silicone

专利号 Patent Number: ZL 2010 2 0120765.6

- 310ml硬包支装胶专用储料胶筒
Feed system of 310ml cartridge packing. Good for storage material by 310ml, 400ml, 500ml, 600ml cartridge hard packing. easy loading and unloading.
- 回吸式精密胶阀，关断迅速无残留
Valve is Precision suck back valve, close glue quickly, ensures no dripping.
- 高精度胶量控制系统
High precision liquid controller system.

► 产品应用 Application

- * 适用于310ml硬包支装胶的产品精密点涂胶工艺需求。
Good for storage material by 310ml cartridge hard packing. Precision dispensing silicone on the product.
- * 常用胶水特性：硅胶、玻璃胶、平面密封胶、UV胶等。
Liquid Material: adhesive, glue, silicone, RTV, sealant, UV.
- * 常用胶水包装：310ml硬包支装。
Packing capacity: 310ml, 400ml, 500ml, 600ml cartridge hard packing.



气压式双液点涂胶机器人DH-3310D-2004AB1

Desktop Industrial Robots with Two Component Mixing & Dispensing

专利号 Patent Number: ZL 2010 2 0120750.X

□ 气动式AB混胶

Suitable for the AB two component.

□ 低粘度AB胶

A and B GLUE with low viscosity material.

□ 1:3以内粘度相近

Mixing ratio by weight is 1:1 to 3:1 by weight and Viscosity must very closely.

▶ 产品应用 Application

* 适用于中低粘度（低于10000cps）AB胶1:1—1:3之间自动定量混合的产品精密点涂胶工艺需求。
Good for viscosity less 10000cps before mixing, mixing ratio by weight is 1:1 to 1:3, precision dispensing.

* 常用胶水特性：环氧树脂类AB胶、有机硅类AB胶、聚氨酯类AB胶等。
Liquid Material: AB glue, epoxy resin, PU glue, Two component material, two part mixing material.

* 常用胶水包装：桶装。
Packing capacity: tank (2liter, 4liter, 20liter can option).



气压式自动清洗双液点涂胶机器人DH-3310D-2004AB2

Benchtop Industrial Robot for Epoxy Resin with Automatic Cleaning Function

专利号 Patent Number: ZL 2010 2 0120750.X

□ 压力桶式储料及自动清洗方式

Feed system of 2pcs of 4 liter tank and 1pcs of 2 liter tank, Reservoir Tanks are used to feed bulk fluids to a valve.

□ 双液回吸式精密胶阀，关胶迅速无滴漏

Valve is Precision suck back valve, close glue quickly, ensures no dripping.

□ 高精密胶量控制系统

High precision liquid controller system.

▶ 产品应用 Application

* 适用于中低粘度（低于10000cps）AB胶1:1—1:3之间自动定量混合的产品精密点涂胶工艺需求。
Good for precision dispensing low to medium viscosity liquids (less 10000cps), mixing ratio from 1:1-1:3 by weight.

* 常用胶水特性：环氧树脂类AB胶、有机硅类AB胶、聚氨酯类AB胶等。
Liquid Material: Epoxy resin, AB glue, ab adhesive, epoxy glue ab, two component, two part/2 part(ab) epoxy glue.

* 常用胶水包装：桶装。
Packing capacity: tank (0.5liter, 2liter, 4liter, 20liter can option).



50ml针筒式双组份胶专用点涂胶机器人DH-3310D-206AB

Desktop Industrial Robots for 50ml Dual Cartridge Packing AB Glue

专利号 Patent Number: ZL 2010 2 0120765.6

□ 50ml针筒式AB胶专用

Feed system is 50ml dual cartridge packing two part glue

□ 精准控制，定量出胶

High precision liquid controller system

□ 小胶量AB胶工艺

Dual cartridge valve good for Micro ab glue dispensing

▶ 产品应用 Application

* 适用于50ml针筒式包装双组份胶的自动定量混合的产品精密点涂胶工艺需求。
Good for Micro ab glue dispensing with 50ml dual cartridge packing.

* 常用胶水特性：丙烯酸酯AB结构胶、环氧AB结构胶、聚氨酯AB结构胶等。
Liquid Material: AB glue, Epoxy resin, two part glue, 2 part glue.

* 常用胶水包装：50ml双组份针筒式包装。
Packing capacity: 50ml dual cartridge.



台面型喷涂胶机器人DH-3310D-PT

Desktop Industrial Robots for Conformal Coating Spraying

专利号 Patent Number: ZL 2010 2 0120775.X

□ 低粘度胶均匀喷胶

Good for low viscosity conformal coating spraying glue

□ 储料桶式(避免频繁加胶)

Feed system of 4liter tank(0.5 liter, 2liter, 4liter, 20liter)

□ 胶阀式(精准喷胶)

Valve(precision spraying)

▶ 产品应用 Application

* 适用于低粘度胶自动精密定量喷涂胶产品工艺需求。
Good for low viscosity precision spraying coating on product surface.

* 常用胶水特性：三防漆等低粘度胶（流体）。
Liquid Material: conformal coating adhesive.

* 常用胶水包装：桶装。
Packing capacity: tank (0.5liter, 2liter, 4liter, 20liter can option).



热熔胶专用点涂胶机器人DH-3310D-R1

Desktop Industrial Robots for Hot Melt Adhesive Glue

专利号 Patent Number: ZL 2010 2 0120765.6

- 固体热熔胶专用
Suitable for the hot melt glue with solid
- 全程加热,精准出胶
Entire heating, precision output
- 5L加热槽,避免频繁加胶
Feed system of hot melt heating tank, avoid frequent add glue, Good for granular and striped solid hot glue

产品应用 Application

- * 适用于热熔胶点涂胶产品工艺需求的自动精密定量作业。
Good for hot melt spraying and coating on clothes and carve cards, Diaper wet.
- * 常用胶水特性: 热熔胶。
Liquid Material: hot melt glue, hot melt adhesive.
- * 常用胶水包装: 条状、块状、颗粒状等。
Packing capacity: granular hot melt adhesive and striped solid hot glue.



卧式点涂胶机器人DH-3310D-W

Desktop Industrial Robots with Horizontal Rotary Axis

专利号 Patent Number: ZL 2010 2 0120765.6

- 三轴联动式侧面点涂胶
3 axis linkage running good for gluing on the side of product
- 卧式(旋转)定量点涂胶
Horizontal Rotary dosing gluing
- 定量控制,出胶均匀
High precision liquid controller system

产品应用 Application

- * 适用于圆柱体或椭圆体等产品侧面小胶量的产品精密点胶工艺需求。
Designed for dispensing on side elevation of different cylinder or ellipsoid products.
- * 常用胶水特性: 快干胶、厌氧胶、UV胶、液体胶、膏状胶、油漆、油墨、油脂、润滑油、锡膏等。
Liquid Material: adhesive, glue, silicone, RTV, cyanoacrylate, grease, anaerobic, and UV cure resins.
- * 常用胶水包装: 牙膏装、袋装(散装)、针筒装、小瓶装、小罐装等。
Packing capacity: toothpaste, bags (bulk), syringes, vial, small cans, etc.



预涂胶型螺纹专用涂胶机(300CC针筒储料)TH-960L1

Thread Coating Machine with Syringe Dispensing for Per-coating Adhesive

专利号 Patent Number: ZL 2010 1 0115438.6 (发明)

ZL 2010 2 0120745.9 (实用)

- 螺纹牙槽专用涂胶
Feed system of 300cc syringe dispensing valve Special using for Thread coating.
- 回吸胶阀, 锁胶迅速
Precision suck-back valve, close glue quickly, ensures no dripping.
- 适用多种规格螺纹涂胶产品
Suitable for the all different screw, bolt, nuts, Plug and various pneumatic connector fastener thread coating.

产品应用 Application

- * 专为螺纹涂胶而设计,其可自行调整涂胶的起始位置和关胶位置。机器采用人工上下料方式,常规产品涂胶时间大约为3-5秒一个,从而广泛应用于汽配螺丝,气动接头,医疗配件接头,煤气表接头之类的螺丝,螺杆,螺柱,螺栓,堵头上的螺纹涂胶工艺。
- Generally suitable for all kinds of thread locking adhesive and Anaerobic on small bolts and small screws, other small fastening product.



技术参数 Specification

规格型号 ITEM	TH-960L
质量标准 Standard	CE认证 CE Approved
适应长度 Length	120 mm以内 <120mm
适应规格 ID	Size M5-M30
适应牙距 Range	不限 no limit
驱动方式 Drive	进口精密步进电机 Precision step motor
控制方式 Control way	天豪微电脑主控 Micro Master
进气压力 Input Air pressure	5 bar以上 干净干燥稳定 (1bar = 1.01972kg/cm ² = 14.5038psi)
输入电源 Input voltage	AC110V-220V (通用) Common Use
外形尺寸 Size	390 x 360 x 340 (mm)
本体重量 Weight	10KG

预涂胶型螺纹专用涂胶机 (0.5升压力桶储料) TH-960L2

Thread Coating Machine with Valve Dispensing for Per-coating Adhesive

专利号 Patent Number: ZL 2010 1 0115438.6 (发明)
ZL 2010 2 0120745.9 (实用)

- 预涂胶型专用螺纹牙槽涂胶
Feed system of 1liter tank ,Special using for Thread coating.
- 回吸胶阀, 锁胶迅速
Suck-back valve, no dripping.
- 304全不锈钢储料桶, 经久耐用
Feed system of 304 s/s 1liter tank.

▶ 产品应用 Application

- * 适用于中低粘度螺纹预涂胶的产品螺纹精密涂胶工艺需求。
Suitable for the all different screw,bolt, nuts, Plug and various pneumatic connector fastener thread coating.
- * 常用胶水特性: 预涂胶型干膜螺纹密封胶。
Liquid Material:thread locker sealant,thread locking adhesive,pre applied adhesive.
- * 常用胶水包装: 罐装、桶装等。
Packing capacity:tank (0.5liter,2liter,4liter,20liter can option).



预涂胶型螺纹专用涂胶机 (2升压力桶储料) TH-960L2-X2

Thread Coating Machine with Valve Dispensing for Threadlocker Adhesive

专利号 Patent Number: ZL 2010 1 0115438.6 (发明)
ZL 2010 2 0120745.9 (实用)

- 204预涂胶型螺纹牙槽涂胶
Special using for 204 threadlocker per-coating adhesive.
- 回吸胶阀, 锁胶迅速
Suck-back valve, no dripping.
- 304全不锈钢储料桶, 经久耐用
Feed system of 304 s/s 1liter tank.

▶ 产品应用 Application

- * 适用于204螺纹预涂胶型等的产品螺纹精密涂胶工艺需求。
Special using for 204 threadlocker adhesive.
- * 常用胶水特性: 预涂胶型干膜螺纹密封胶。
Liquid Material: per-applied dry-dilm screw-thread retaining compound.
- * 常用胶水包装: 500g罐装等。
Packing capacity:500g of tank.



预涂胶型螺纹专用涂胶机 (4升压力桶储料) TH-960L2-X4

Thread Coating Machine with Valve Dispensing for Per-coating Adhesive

专利号 Patent Number: ZL 2010 1 0115438.6 (发明)
ZL 2010 2 0120745.9 (实用)

- 503/513/516预涂胶型螺纹牙槽涂胶
Special using for per-coating adhesive sealant 503/513/516.
- 回吸胶阀, 锁胶迅速
Precision suck-back valve,close glue quickly,ensures no dripping.
- 304全不锈钢储料桶, 经久耐用
Feed system of 304 s/s 1liter tank.

▶ 产品应用 Application

- * 适用于503/513/516螺纹预涂胶型等的产品螺纹精密涂胶工艺需求。
Special using for per-coating adhesive lotitle 503/513/516 Thread coating.
- * 常用胶水特性: 预涂胶型干膜螺纹密封胶。
Liquid Material: per-coating adhesive lotitle 503/513/516 Thread coating.
- * 常用胶水包装: 2kg桶装等。
Packing capacity:tank (0.5liter,2liter,4liter,20liter can option).



针筒式螺纹专用涂胶机 (30/55CC针筒储料) TH-960L5

Thread Coating Machine with Syringe Dispensing for Anaerobic Thread Sealant

专利号 Patent Number: ZL 2010 1 0115438.6 (发明)
ZL 2010 2 0120745.9 (实用)

- 螺纹牙槽专用涂胶
Feed system of 1liter tank ,Special using for Anaerobic adhesive Thread coating.
- 常用于厌氧胶型螺纹锁固剂
Sutling for threadlocker adhesive (Anaerobic) .
- 适用多种规格螺纹涂胶产品
Suitable for the all different screw,bolt, nuts, Plug and various pneumatic connector fastener thread coating.

▶ 产品应用 Application

- * 适用于厌氧胶型等螺纹锁固剂的产品螺纹精密涂胶工艺需求。
Special using for Anaerobic adhesive Thread coating.
- * 常用胶水特性: 厌氧胶型螺纹锁固剂。
Liquid Material: Anaerobic adhesive thread locking adhesive coating.
- * 常用胶水包装: 50ml瓶装、250ml瓶装等。
Packing capacity:50ml and 250ml packing.



针筒式圆形点涂胶机TH-2004L1-K

Rotary Table Dispenser for Dispensing Circular Beads

专利号 Patent Number: ZL 2010 2 0120880.3

- **圆形涂胶工艺专用**
Special suitable for dispensing circular beads.
- **万向调节装置, 可涂产品内外壁**
Universal adjusting device, Also machine can coating inside on circle product.
- **适用多种规格圆形涂胶产品**
Suitable for the all different round product coating.

► 产品应用 Application

* 专为圆形涂胶工艺产品设计, 其可在圆形产品的外侧、内壁, 表面等部位均匀涂一圈胶水。机器适用产品外径大小不超过200mm以及小胶量的精密圆形涂胶工艺, 并采用人工上下料方式以及脚踏开关控制。

Rotary tables Dispenser are used for semi-automatic dispensing applications of rotary parts, table for dispensing circular beads, the circular parts up to 15" (200mm) in diameter, as like the speaker, lamps, motors, end caps, oil seals, bearings, panels, etc.

* 常用胶水特性: 快干胶、厌氧胶、UV胶、液体胶、膏状胶、油漆、油墨、油脂、润滑油、锡膏等。

Liquid Material: adhesive, glue, silicone, RTV, cyanoacrylate, grease, anaerobic, and UV cure resins.

* 常用胶水包装: 牙膏装、袋装(散装)、针筒装、小瓶装、小罐装等。
Packing capacity: toothpaste, bags (bulk), syringes, Vial, small cans, etc.



胶阀式圆形点涂胶机TH-2004L1-KJ

Rotary Table Dispenser for Dispensing Circular Beads

专利号 Patent Number: ZL 2010 2 0120880.3

- **回吸胶阀, 防漏滴**
Precision suck-back valve, close glue quickly, ensures no dripping.
- **304全不锈钢储料桶式(大胶量工艺)**
Feed system of 304 s/s 1liter tank.
- **圆形涂胶工艺专用, 精准胶量控制**
Special suitable for dispensing circular beads.

► 产品应用 Application

* 适用于中低粘度胶水的产品大胶量精密圆形点涂胶工艺需求。

Good for low and middle viscosity adhesive sealant liquid material coating on the different round product.

* 常用胶水特性: UV胶、液体胶、润滑油等。

Liquid Material: adhesive, glue, cyanoacrylate, oil.

* 常用胶水包装: 罐装、桶装等。
Packing capacity: cans, buckets, etc.



天豪定量点胶机TH-2004K

Glue Dispenser

- **针筒式储料方式**
Feed system is barrel.
- **90%以上胶水等流体通用**
Suitable for a wide range of dispensing.
- **可调节定时定量精密出胶**
Has an analog timer with a knob to arrive dosing require.



天豪数码循环点胶机TH-2004KE

Adhesive Dispenser

- **数码拨盘式时间调节**
With 4 digital timer display, can change the dispensing time.
- **高精密调压阀稳定出胶量**
QUOTE USA high-speed precision solenoid valve MAC.
- **可调节循环定时定量精密出胶**
The digital dispenser has three operating modes (manual/quantitative/cycle).



天豪高精度数显点胶机TH-2004KT

Precision Fluid Dispenser

- **数码拨盘式时间调节及LED数显功能**
Digitally controlled program with a bright LED display and "teach & learn" process programming.
- **高精密调压阀稳定出胶量**
QUOTE USA high-speed precision solenoid valve MAC.
- **可调节定时微量精密出胶**
Has an analog timer with a knob to arrive dosing require.



天豪高精度数显循环点胶机TH-2004KB

Precision Fluid Dispenser with Digital and LED Display, Cycle Model

- **数码拨盘式时间调节及LED数显功能**
Digitally controlled program with a bright LED display and "teach & learn" process programming.
- **高精密调压阀稳定出胶量**
QUOTE USA high-speed precision solenoid valve MAC.
- **可调节循环定时微量精密出胶**
The digital dispenser has three operating modes (manual/quantitative/cycle).



► 产品应用 Application

- * 适用于小胶量的产品精密定量点胶工艺需求，可搭载天豪三轴点涂胶机器人使用。
Manual-mode enables a dispense operation to be manually controlled by a foot pedal, and Timed-mode dispenses at a reset time. Syringe and receiver head assembly sold separately.
- * 常用胶水特性：快干胶、厌氧胶、UV胶、液体胶、膏状胶、油漆、油墨、油脂、润滑油、锡膏等。
Liquid Material: adhesive, glue, silicone, RTV, cyanoacrylate, grease, anaerobic, and UV cure resins.
- * 常用胶水包装：牙膏装、袋装（散装）、针筒装、小瓶装、小罐装等。
Packing capacity: toothpaste, bags (bulk), syringes, Vial, small cans, etc.

► 技术参数 Specification

规格型号 ITEM	TH-2004K	TH-2004KE	TH-2004KT	TH-2004KB
重复精度 Repeatability	0.01S	0.005S	0.00005S	0.00005S
自动循环功能 Cycles/interval/time	无NO	有YES	无NO	有YES
定量调节方式 Quantitative	旋钮 Knob	数码拨盘 Digital dial	数码拨盘 Digital dial	数码拨盘 Digital dial
时间显示方式 Time display	刻度表 Scale table	数码 Digital	数码+LED Digital+LED	数码+LED Digital+LED
质量标准 Standard	CE认证CE Approved			
启动方式 Start	脚踏开关(可选配指环开关) Foot Pedal, Finger Switch			
外部控制 External control	无电压&开关信号NO Voltage & Only switch signal			
点胶频率 Frequency	大于600次/分 >600times/minute			
防滴漏功能 Vacuum function	真空回吸装置 Leak-proof vacuum adjusting organ			
提供空气压力 Air input	5 bar以上 (1bar =1.01972kg/cm ² =14.5038psi)			
电源输入 Power Supply	AC110V-220V (通用) Common Use			
环境温度 Working Temperature	0 ~ 40℃			
环境湿度 Relative Humidity	20 ~ 90% (无结露) (no condensation)			
外形尺寸 Dimensions (WxDxH) mm	241×210×70	256×210×70	246×210×70	281×210×70
本体重量 Weight	<3.5Kgs			

硅胶玻璃胶定量打胶机TH-2004KG

Silicon Dispenser

- **310ml硬包支装胶专用储料胶筒**
Feed system is 310ml cartridge hard packing.
- **可调节定时定量出胶**
Has an analog timer with a knob to arrive dosing require.
- **大量定量控制系统**
Larger volume of pneumatic pressure, exhausts a greater volume of air, no dripping.



► 产品应用 Application

- * 适用于310ml硬包支装膏状胶的产品定量点涂胶工艺需求，可搭载天豪三轴点涂胶机器人使用。
Good for storage material by 310ml, 400ml, 500ml, 600ml cartridge hard packing. easy loading and unloading.
- * 常用胶水特性：硅胶、玻璃胶、平面密封胶等膏状胶。
Liquid material: adhesive, glue, silicone, RTV, sealant, paste adhesive.
- * 常用胶水包装：310ml硬包支装。
Packing capacity: 310ml cartridge hard packing.

50ml针筒式包装双组份胶专用定量点胶机TH-206AB

Dual Cartridge Dispensers

- **50ml针筒式双组份胶专用**
Feed system is 50ml dual cartridge packing, easy loading and unloading.
- **小胶量AB胶定量点胶工艺**
Good for micro dispensing for ab glue.
- **可调节定时定量出胶**
Pneumatic air-control logic, Foot-pedal operation.



► 产品应用 Application

- * 适用于50ml针筒式包装双组份胶的自动定量混合的产品精密点涂胶工艺需求，可搭载天豪三轴点涂胶机器人使用。
Good for Micro ab glue dispensing with 50ml dual cartridge packing, together our benchtop dispensing robot good for work.
- * 常用胶水特性：丙烯酸酯AB结构胶、环氧AB结构胶、聚氨酯AB结构胶等。
Liquid Material: AB glue, Epoxy resin, two part glue, 2 part glue.
- * 常用胶水包装：50ml双组份针筒式包装。
Packing capacity: 50ml dual cartridge.

大胶量定量涂胶机TH-2004KJ

Liquid Dispensing Controller with Precision Valve

专利号 Patent Number: ZL 2010 2 0120744.4

□ 压力桶式储料方式

Feed system of 4liter tank(0.5 liter, 2liter, 4liter, 20liter),

□ 回吸式精密胶阀, 防漏滴

Precision suck-back valve, close glue quickly, ensures no dripping.

□ 高精度胶量控制系统

High Precision Liquid dispensing controller system.

▶ 产品应用 Application

* 适用于中低粘度胶水的产品大胶量精密点涂胶工艺需求, 可搭载天豪三轴点涂胶机器人使用。
Suitable for low viscosity glue product precision coating process requirement in mass production, together with our dispensing robot will best work.

* 常用胶水特性: UV胶、液体胶、润滑油等。
Liquid Material: adhesive, glue, uv glue, oil.

* 常用胶水包装: 罐装、桶装等。
Packing capacity: tank (0.5liter, 2liter, 4liter, 20liter can option).



快干胶专用定量点胶机TH-206B1

Peristaltic Pump Dispensing Controller

□ 低粘度快干胶专用

Good for low viscosity material. Snuff-back prevents post-dispense dripping.

□ 铁氟龙胶管, 更耐用

Simple load mechanism also provides easy cleaning.

□ 精密定量出胶控制系统

Air-free dispensing, Manual or Timed modes.

▶ 产品应用 Application

* 适用于低粘度快干胶水的产品精密定量点胶工艺需求, 可搭载天豪三轴点涂胶机器人使用。

Low viscosity liquids by pressure displacement applied to a turning rotor against a tube carrying material. Usually these pumps are chosen because the liquids are hazardous or difficult to work with and it is advisable to limit operator contact. Another reason is that peristaltic pumps are air free.

* 常用胶水特性: 快干胶等。
Liquid material: cyanoacrylate, quick drying glue.

* 常用胶水包装: 20ml瓶装, 50ml瓶装等。
Packing capacity: 20ml and 50ml bottle packing.



气压式双液定量点涂胶机TH-2004AB1

Epoxy Dispensing Machine with Two Component Mixing/Meter

专利号 Patent Number: ZL 2010 2 0120750.X

□ 压力桶式储料方式

Feed system is 4 liter tank large capacity for liquid material. Other have 0.5 liter, 2liter, 20 liter can option.

□ 双液回吸式精密胶阀, 关胶迅速无滴漏

Two component suck-back dispensing valve.

□ 高精度胶量控制系统

High Precision Liquid dispensing controller.

▶ 产品应用 Application

* 适用于中低粘度 (低于10000cps) AB胶1:1—1:3之间自动定量混合的产品精密点涂胶工艺需求, 可搭载天豪三轴点涂胶机器人使用。
Good for viscosity less 10000cps before mixing, mixing ratio by weight is 1:1 to 1:3, precision dispensing.

* 常用胶水特性: 环氧树脂类AB胶、有机硅类AB胶、聚氨酯类AB胶等。
Liquid Material: AB glue, epoxy resin, PU glue, Two component material, two part mixing material.

* 常用胶水包装: 桶装。
Packing capacity: tank (2liter, 4liter, 20liter can option).



气压式自动清洗双液定量点涂胶机TH-2004AB2

AB Glue Dispensing Machine with Automatic Cleaning Function

专利号 Patent Number: ZL 2010 2 0120750.X

□ 压力桶式储料及自动清洗方式

Feed system of 2pcs of 4 liter tank and 1pcs of 2 liter tank. Reservoir Tanks are used to feed bulk fluids to a valve.

□ 双液回吸式精密胶阀, 关胶迅速无滴漏

Valve is Precision suck back valve, close glue quickly, ensures no dripping.

□ 高精度胶量控制系统

High Precision Liquid dispensing controller system.

▶ 产品应用 Application

* 适用于中低粘度 (低于10000cps) AB胶1:1—1:3之间自动定量混合的产品精密点涂胶工艺需求, 可搭载天豪三轴点涂胶机器人使用。
Good for viscosity less 10000cps before mixing, mixing ratio by weight is 1:1 to 1:3, precision dispensing.

* 常用胶水特性: 环氧树脂类AB胶、有机硅类AB胶、聚氨酯类AB胶等。
Liquid Material: AB glue, epoxy resin, PU glue, Two component material, two part mixing material.

* 常用胶水包装: 桶装。
Packing capacity: tank (2liter, 4liter, 20liter can option).



定量点胶吸放一体机TH-206M

Automatic Dispenser with Pick and Place

□ 针筒式储料方式

Feed system: syringe dispensing.

□ 手持式吸放装置 (小产品)

Vacuum suction pen with sucker.

□ 高精密度量控制系统

QUOTE USA high-speed precision solenoid valve MAC. Vacuum control keeps thin fluids from dripping.

► 产品应用 Application

* 适用于产品定量点胶以及吸放的工艺需求。

Dispensing glue on surface on small product, Vacuum suction pen according to the size of components with the corresponding diameter of the nozzle, the replacement is simple and convenient.

* 常用胶水特性: AB胶、UV胶等。

Liquid Material: adhesive, glue, silicone, RTV, cyanoacrylate, grease, anaerobic, and UV cure resins.

* 常用胶水包装: 针筒装、小瓶装、小罐装等。

Packing capacity: toothpaste, bags (bulk), syringes, Vial, small cans, etc.



天豪吸放专用机TH-206S

Pick Up System

□ 高精密度压阀, 稳定吸力

Constant Suction, easy to operate.

□ 手持式吸放装置 (小产品)

Vacuum suction pen with sucker.

□ 配套专用回吸装置, 更稳定耐用

Arbitrary replacement of different nozzle sizes to accommodate different sizes of diameters.

► 产品应用 Application

* 适用于细小产品点胶后吸放的工艺需求。

Vacuum pick-up systems are designed for delicate handling of small parts and components, including miniature, surface mount and chip scale packages. Widely used in the jewelry industry.



天豪精密微量胶阀TH-100J

Micro Dosing Valve

专利号 Patent Number: ZL 2010 2 0120733.6

► 产品应用 Application

* 胶阀配置千分尺微调功能、定量精准, 适用于极少量的精密定量点胶应用场合。

Micrometer stroke adjustment to fine tune shot size, Shot sizes may be fine tuned by turning an adjustment control at the top of the valve.

Dispensing Valve is designed for dispensing constant volume shots of low to medium viscosity materials within precision micro-dispensing.



天豪夹管胶阀TH-300J

Pinch Tube Valve

► 产品应用 Application

* 适用于厌氧胶、快干胶等精密定量点涂胶应用场合。

Suitable for low viscosity fluids for two-part epoxies and cyanoacrylate.



天豪回吸胶阀TH-600J

Poppet Valve with Suck Back

专利号 Patent Number: ZL 2010 2 0120744.4

► 产品应用 Application

* 胶阀配置回吸锁胶功能以及防拉丝的设计, 适用于中低粘度胶水的精密定量点胶应用场合。

Pneumatic Poppet Dispensing Valve is designed for dispensing low and mid viscosity materials, such as silicone, RTV, epoxy, adhesive, liquids containing filler.



天豪加大型回吸硅胶阀TH-602J

Poppet Valve with Suck Back

专利号 Patent Number: ZL 2010 2 0120744.4

► 产品应用 Application

* 适用于中高粘度胶水的定量点涂胶应用场合，并具备回吸锁胶，关断迅速防拉丝等功能。

Pneumatic Poppet Dispensing Valve is designed for dispensing mid-high viscosity materials, such as silicone, RTV, epoxy, adhesive, liquids containing filler.



天豪双液胶阀TH-700J

Two Component Mix/Meter Valve

专利号 Patent Number: ZL 2010 2 0120744.4

► 产品应用 Application

* 适用于中低粘度双液胶水自动配比及定量点涂胶应用场合，并具备高速回锁、关胶迅速无拉丝、胶水不回流等功能。

This Two component mix/meter valve designed for precise flow control of Low viscosity two component material mixing/metering, mixing ratio by weight is 1:1 to 1:3, precision dispensing, viscosity less 10000cps.



天豪旋转硅胶阀TH-800J

Constant Bead Rotary Dispensing Valve

► 产品应用 Application

* 适用于中高粘度胶水的定量点涂胶应用场合，阀芯采用特殊陶瓷材料制作，使其寿命更长更耐用，并具备关断锁胶迅速、无拉丝等功能。

Suitable for medium to high viscosity materials such as silicones, RTVs, sealants, and greases deliver a uniform bead dimension.



天豪储料压力桶TH-25Y/50Y/100Y

Reservoir Tanks

► 产品应用 Application

* 桶身采用304不锈钢材质制作，其不易与化学物质产生反应以及不易变形，桶盖采用整铝精加工而成，表面经过抛光硬化处理，从而具有密封性好、不粘胶等特点。此外，储料桶在使用时可将胶水的原包装直接放入桶内，因此用完无需清洗，维护方便。

Reservoir Tanks are used to feed bulk fluids to a valve or dispensing pen 304 Stainless steel reservoir tanks are designed to maintain a steady fluid pressure for most dispensing applications, while providing excellent protection against corrosion or contamination.



► 技术参数 Specification

产品型号 Part Number	TH-25Y	TH-50Y	TH-100Y	TH-500Y
胶桶容量 Capacity (L)	0.5L	2L	4L	20L
承压范围 Max Working Pressure	小于less 5bar	小于less 5bar	小于less 5bar	小于less 5bar
材料 Material	304 s/s	304 s/s	304 s/s	304 s/s
壁厚 Thickness	3mm	4mm	4mm	5.5mm
胶桶内径 Body Inner Diameter	82mm	120mm	180mm	258mm
胶桶内高 Inside Height	108mm	173mm	234mm	344mm
胶桶外径 Body Outer Diameter	88mm	128mm	188mm	269mm
胶桶外高 Overall Height/Width	120mm	181mm	251mm	360mm
重量 Weight (kg)	1.7kg	4.5kg	8.6kg	22.3kg
外形高度 (含盖子和配件) Packing height	175mm	345mm	340mm	465mm
外形宽度 (含盖子和配件) packing width	150mm	190mm	280mm	360mm

塑座不锈钢针头

Plastic Stainless Steel Tips



规格SPEC	内径In-ID	外径Out-ID	型号Type	颜色Color
14G	1.55mm	1.83mm	TH714050	Olive(橄榄)
15G	1.37mm	1.65mm	TH715050	Amber(琥珀)
18G	0.84mm	1.27mm	TH718050	Green(绿色)
20G	0.60mm	0.91mm	TH720050	Pink(粉红)
21G	0.51mm	0.82mm	TH721050	Purple(紫色)
22G	0.41mm	0.72mm	TH722050	Blue(蓝色)
23G	0.34mm	0.64mm	TH723050	Orange(橙色)
25G	0.26mm	0.51mm	TH725050	Red(红色)
27G	0.21mm	0.41mm	TH727050	Clear(本色)
30G	0.16mm	0.31mm	TH730050	Lilac(浅紫)
32G	0.09mm	0.23mm	TH732050	Yellow(黄色)
34G	0.06mm	0.19mm	TH734050	Cyan(雪青)

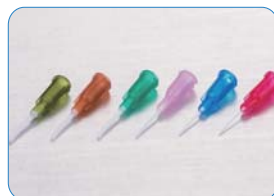
全不锈钢针头

High Precision Stainless Steel Tips



规格SPEC	内径In-ID	外径Out-ID	型号Type
14G	1.55mm	1.83mm	TH814025
15G	1.37mm	1.65mm	TH815025
16G	1.20mm	1.52mm	TH816025
18G	0.84mm	1.27mm	TH818025
20G	0.60mm	0.91mm	TH820025
21G	0.51mm	0.82mm	TH821025
22G	0.41mm	0.72mm	TH822025
23G	0.34mm	0.64mm	TH823025
25G	0.26mm	0.51mm	TH825025
27G	0.21mm	0.41mm	TH827025
30G	0.16mm	0.31mm	TH830025

PP挠性针头 Flexible Tips



规格SPEC	内径In-ID	外径Out-ID	型号Type	颜色Color
14G	1.55mm	1.83mm	TH914	Olive(橄榄)
15G	1.37mm	1.65mm	TH915	Amber(琥珀)
18G	0.84mm	1.27mm	TH918	Green(绿色)
20G	0.60mm	0.91mm	TH920	Pink(粉红)
22G	0.41mm	0.72mm	TH922	Blue(蓝色)
25G	0.26mm	0.51mm	TH925	Red(红色)

锥形斜式针头 Taper Tips



规格SPEC	内径In-ID	型号Type	颜色Color
14G	1.55mm	TH614	Olive(橄榄)
16G	1.20mm	TH616	Amber(琥珀)
18G	0.84mm	TH618	Green(绿色)
20G	0.60mm	TH620	Pink(粉红)
22G	0.41mm	TH622	Blue(蓝色)
25G	0.26mm	TH625	Red(红色)

铁氟龙针头 PTFE (Teflon) Tips



规格SPEC	内径In-ID	外径Out-ID	型号Type	颜色Color
16G	1.20mm	1.52mm	TH916	Grey(灰色)
25G	0.26mm	0.51mm	TH925	Pink(粉色)

针筒 Barrel



容量Capacity	透明针筒Transparent	黑色针筒Black	琥珀色针筒Amber
3CC	TH1C03	TH1B03	TH1A03
5CC	TH1C05	TH1B05	TH1A05
10CC	TH1C10	TH1B10	TH1A10
30CC	TH1C30	TH1B30	TH1A30
55CC	TH1C55	TH1B55	TH1A55
300CC	TH1C300		

套头组件 (针筒适配器)

Plastic Head Syringe/Barrel Adapter



容量Capacity	黑色Black	黄色Yellow
3CC	TH5B03	TH5Y03
5CC	TH5B05	TH5Y05
10CC	TH5B10	TH5Y10
30CC	TH5B30	TH5Y30
55CC	TH5B55	TH5Y55

点胶针筒活塞

End Cap



容量Capacity	型号Type	颜色Color
3CC	TH2S03	白色PE White PE
5CC	TH2S05	白色PE White PE
10CC	TH2S10	白色PE White PE
30CC	TH2S30	白色PE White PE
55CC	TH2S55	白色PE White PE

点胶针筒后盖

Barrel Piston



容量Capacity	型号Type	颜色Color
3CC	TH4S03	橙色Orange
5CC	TH4S05	橙色Orange
10CC	TH4S10	橙色Orange
30CC	TH4S30	橙色Orange
55CC	TH4S55	橙色Orange

针筒通用头塞

Tip Cap



容量Capacity	型号Type	颜色Color
3CC	TH3T	橙色Orange
5CC	TH3T	橙色Orange
10CC	TH3T	橙色Orange
30CC	TH3T	橙色Orange
55CC	TH3T	橙色Orange

三通 Tee



规格SPEC	型号Type
12节	THT12
17节	THT17
20节	THT20

混合管 Mix Tube



规格SPEC	型号Type
12节	THM12
17节	THM17
20节	THM20

落地型三轴点涂胶机器人（定制）TH-2004AD

Robotic Dispensing Equipment(Customized)

专利号 Patent Number: ZL 2010 2 0120765.6

三轴悬浮龙门式机械结构

Gantry-Cartesian robotic systems can be easily integrated with in-line industrial automation.

伺服丝杆，大工作行程（定制）

Precision Servo motor and belt, big work range.

更方便的产品取放方式（高重量产品）

Add pick and place processes, or jobs requiring a fourth axis.

产品应用 Application

* 适用于大工作行程定制化的产品自动精密点涂胶工艺需求。

The systems making them ideal for large dispensing applications.



电梯光幕点涂胶机器人（定制）TH-2004AD-LX

Industrial Coating Equipment

专利号 Patent Number: ZL 2010 2 0120765.6

三轴悬浮式机械结构

Typically Gantry-Cartesian robotic systems.

伺服丝杆，更长工作行程（定制）

Precision Servo motor and belt, big work range.

更方便的产品取放方式（长条形产品）

More convenient way to pick and place products (strip products).

产品应用 Application

* 适用于长条形产品的定制化自动精密点涂胶工艺需求。

Good for long strip production dispensing beads.



汽车母线涂胶组装机机器人 (定制) TH-2004AE

Industrial Dispensing Assembly Line Robots (Customized Equipment)

专利号 Patent Number: ZL 2010 2 0120756.7

- **安全门防护设计和自动进给功能**
Safety door protection design and automatic feeding function.
- **气爪自动抓取工件功能和自动组胶功能**
Grasping workpiece automatically and automatic assembly.
- **CCD视觉检测功能, 保证产品的加工一致性和可靠性**
CCD visual inspection function ensures the processing consistency and reliability of products.
- **压力传感器, 实时监测组胶压力**
Pressure sensor, real-time monitoring of assembly pressure.
- **条形码扫描系统, 详细记录工件加工数据**
Barcode scanning system, detailed recording of workpiece processing data.



落地型三轴自动锁螺丝机器人 (定制) TH-2004S-X

Robotic Dispensing Equipment(Customized)

专利号 Patent Number: ZL 2015 2 0717738.X

- **M0.8-4.0螺丝的自动锁付**
Good for screw from 0.8-4mm ID screw tightening.
- **吹取式送料方式, 更高效率**
Blowing - feeding method, higher efficiency.
- **锁付不良 (漏锁、浮锁、滑牙) 检测及报警**
Detection and alarm for leakage lock, floating lock, sliding tooth product.
- **双工位结构, 交替作业, 双倍效率**
Robotic screwdriving screw with Dual station, alternating work, double efficiency.
- **更方便的产品取放方式 (外形尺寸大、产品工件重或锁付扭力大的产品)**
More convenient way of taking and releasing products (products with large dimensions, heavy workpieces or high lock torque).



流体粘度 Liquid Viscosity

- 点胶效果受众多因素的影响, 当你为自己的应用去选择正确的系统时需要去了解材料的特性, 包括流体的粘度, 胶水的流动性, 胶量的大小, 包装容量。

The gluing effect is affected by many factors. When you choose the correct dispensing system for your application, you need to understand the materials information, including the viscosity of fluid, the fluidity of glue, and the quantity of gluing, material packing capacity.

- 流体的粘度反映了流体内部产生的阻力, 通常用厘泊做为计量单位, 也有可能用其它表达方式计量, 也可用参考相同粘度的流体材料, 见下图

The viscosity of the mobility the internal resistance of the fluid. cPs is usually used as the unit of measurement, it's possible quote other way as the unit of viscosity, please reference right picture.

度量单位转换 Viscosity Conversion

100 Centipoise = 1 Poise

1 Centipoise = 1 mPa·s (Millipascal Second)

1 Poise = 0.1 Pa·s (Pascal Second)

Centipoise = Centistoke × Density

通用流体的大致粘度 (在室温-21°C (70°F) 下)

General Viscosity of a Fluid Material (at Room Temperature -21(70F))

材料 Liquid Material

粘度 (厘泊计) (cps)

