

速动工业级智能伺服拧紧工具

SUDONG INDUSTRIAL GRADE INTELLIGENT SERVO TIGHTENING TOOL

- ▣ 广东省“专精特新”中小企业
- ▣ 国家高新技术企业
- ▣ 通过质量管理体系 ISO 9001:2015认证





战略目标 Strategic objectives

公司将利用人才，技术优势，大力发展高新技术产业；积极参与国内外同行业的竞争，建成国内外电子产品领域极具影响力的高新技术企业。
The company will make use of talents and technological advantages to vigorously develop high-tech industries; actively participate in the competition of the same industry at home and abroad, and build a highly influential high-tech enterprise in the field of electronic products at home and abroad.

公司宗旨 Company purpose

以人才为根本，以创新为灵魂，以市场为导向，以顾客为中心，培育和建立电子产品高新技术产业，为广泛的工业领域用户提供创造新价值的高性能产品

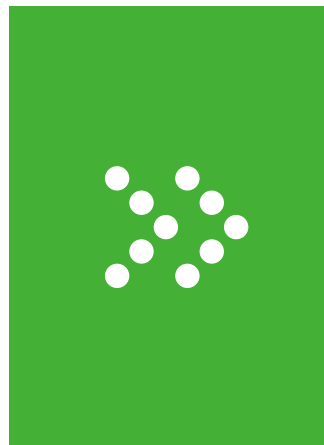
Take talent as the foundation, innovation as the soul, market-oriented, customer-centric, cultivate and establish high-tech industries of electronic products, and create new value for users in a wide range of industrial fields high-performance products.

速动愿景 Quick vision

速动SUDONG深耕中国，放眼世界，每一分用心和努力源于美好的愿景：做世界最好的拧紧工具，做世界认可的拧紧工具。

Sudong Sudong is deeply involved in China and looking at the world. Every effort and effort stems from a beautiful vision: Be the world's best tightening tool, be the world's recognized tightening tool.





公司简介 Company Profile

速动智能拧紧技术（广东）有限公司。位于东莞松山湖，成立于2007年，是一家智能伺服电动螺丝刀，智能伺服拧紧轴，充电式智能扳手，工业级无刷定扭电动螺丝刀，扭矩测试仪，智能拧紧数据采集软件及周边配套产品的研发、生产、销售于一体的专业性高新技术企业。

深耕紧固领域十余载，速动智能以自主研发与科技创新为利器破除行业技术壁垒，打破国外紧固品牌的长期垄断局面，引领紧固工具走向数字化，智能化与集成化。多年来，速动SUDONG以“一切的科研技术以拧紧为核心”为经营理念，率先掌握数字拧紧核心算法，并建设性的在行业内提出“智能拧紧”与“数字拧紧”概念。

公司拥有一批从事开发、生产科研技术人才和得力的管理团队，秉承着追求创新的服务理念，持续进行拧紧工具的创新与科技研发，为广大客户源源不断的提供适用的拧紧工具，并创造更高的市场价值和效益。

速动SUDONG深知只有每一个细小的零件都精准咬合才能保证整体的精准运转，因此从设计理念到精密的制造工艺以及严格的出厂检验，全程严谨。发展至今，速动SUDONG的产品精密耐用，并拥有多项自主知识产权，服务点遍布全国各地多个城市，其无刷智能电动螺丝刀出口全球200多个国家和地区，全球累计销量超过100万只，为万千用户提供具适配性的数字拧紧装配服务。

速动SUDONG立足当下、放眼世界，每一分用心和努力都源于美好的企业愿景：做世界最好的拧紧工具，做世界认可的拧紧工具。

Sudong Smart Tightening Technology (Guangdong) Co., Ltd. Located in Songshan Lake, Dongguan, founded in 2007, it is a professional high-tech enterprise integrating the R & D, production and sales of intelligent servo electric screwdriver, intelligent servo tightening shaft, rechargeable intelligent wrench, industrial brushless constant torque electric screwdriver, torque tester, intelligent tightening data acquisition software and surrounding supporting products.

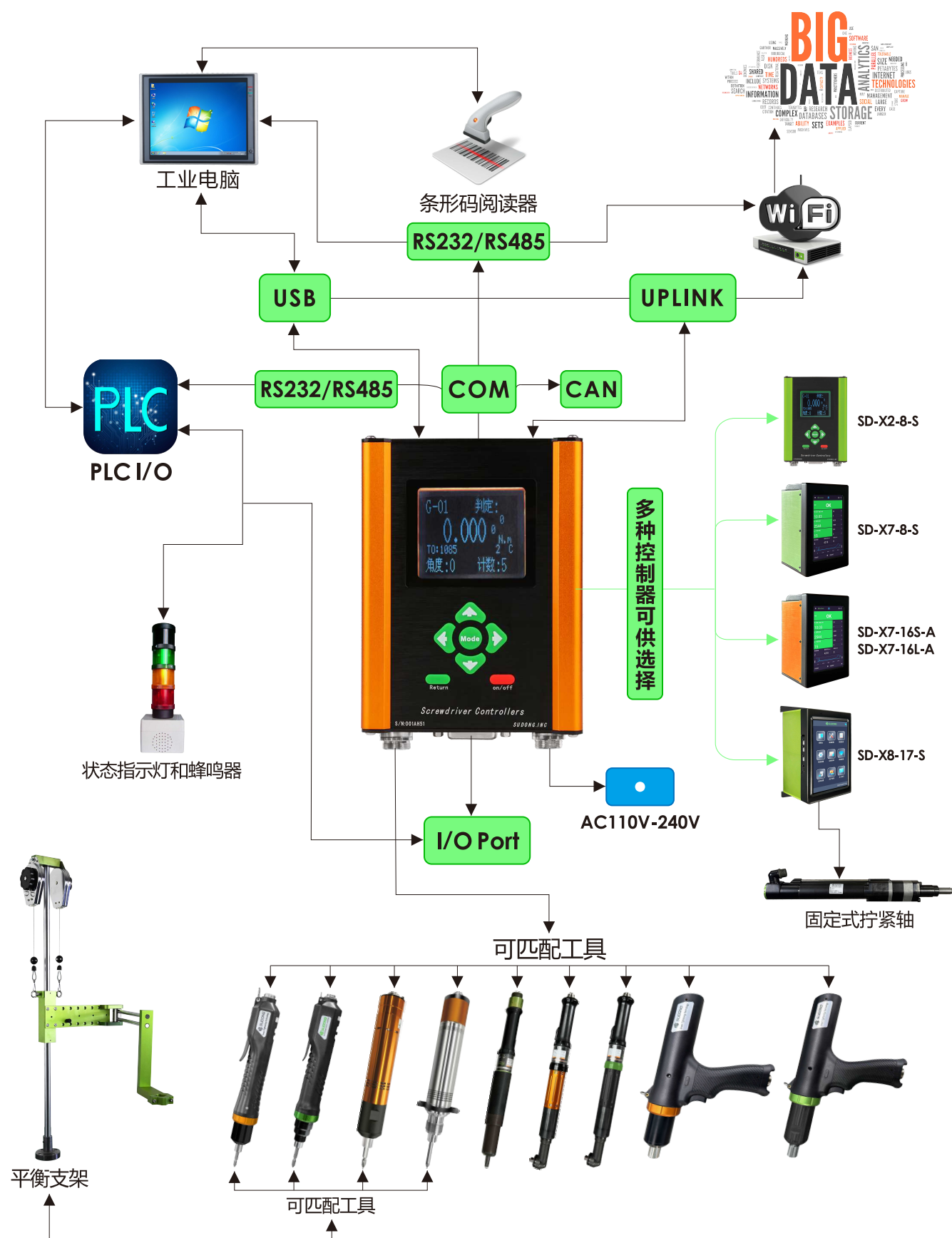
With more than ten years of deep cultivation in the field of fastening, Sudong uses independent R&D and technological innovation as a weapon to break industry technical barriers, break the long-term monopoly of foreign fastening brands, and lead fastening tools to digital, intelligent and integrated. Over the years, Sudong SUDONG has taken the business philosophy of "all scientific research and technology centered on tightening", and took the lead in mastering the core digital tightening algorithms, and constructively proposed the concepts of "intelligent tightening" and "digital tightening" in the industry. The company has a group of R&D, production, scientific research and technical personnel and an excellent management team. Adhering to the service concept of pursuing innovation, the company continues to carry out the innovation of tightening tools and scientific research and development, and continuously provides customers with the most advanced tightening tools and creates Higher market value and efficiency.

Sudong knows that only every small part is accurately occluded to ensure the precise operation of the whole, so from the design concept to the precise manufacturing process and strict factory inspection, the whole process is rigorous. So far, Sudong's products are precise and durable, and have a number of independent intellectual property rights. Its service points are in many cities across the country. Its brushless smart electric screwdrivers are exported to more than 200 countries and regions around the world, and the global cumulative sales volume exceeds 1 million. , Provide the most adaptable digital tightening assembly service for thousands of users.

Sudong is based on the present and looking at the world. Every effort and effort stems from a beautiful corporate vision: Be the world's best tightening tool, be the world's recognized tightening tool.



智能伺服拧紧构建图 Intelligent servo tightening build diagram



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发展历程

Development process

• 2007.7

东莞市锦波电子科技有限公司（公司主力推广自有品牌(速动SUDONG)工业级电动螺丝刀、周边测试仪器及自动化配套产品，在完善国内市场的同时向发展国际市场迈进）

Dongguan Jinbo Electronic Technology Co., Ltd. (the company's main force to promote its own brand (speed SUDONG) industrial-grade electric screwdriver, peripheral test instruments and automation products, in the domestic market while perfecting the development of the international market towards the progress)

• 2017

2017年11月，速动第一台微扭矩伺服电动螺丝刀在德国慕尼黑展出。同年12月，公司获得广东省高新技术企业。

In November 2017, the first micro-torque servo electric screwdriver of Speedmotion was exhibited in Munich, Germany. In December of the same year, the company was awarded high-tech enterprise in Guangdong Province.

• 2011.1

2011年01月被东莞市科学技术局，评定为民营科技企业资格。

January 2011 by the Dongguan Science and Technology Bureau, assessed as a private science and technology enterprise qualification.

• 2011.3

2011年03月通过ISO9001:2008质量管理体系认证。

March, 2011 Passed ISO9001:2008 quality management system certification.

• 2011.9

2011年09月全系列产品通过CE认证

September 2011, the whole series of products through the CE certification.







企业资质 Qualification



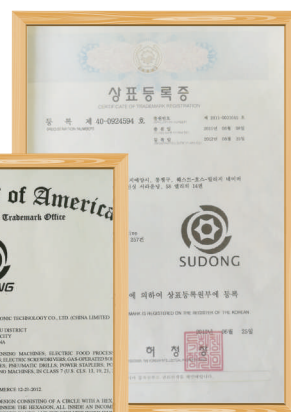
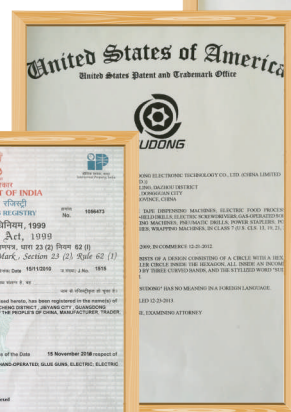
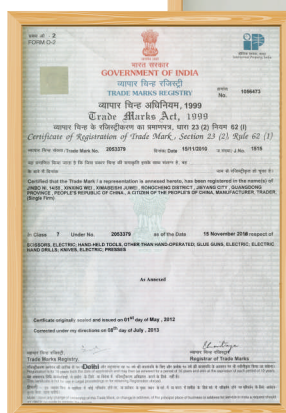
荣誉源于用心，每份认可的资质证书凝聚了速动人努力拼搏，勇于创新的精神，每份荣誉都来之不易，我们将倍加珍惜，一如既往的为客户提供优质的产品和周到的售后服务。公司高度重视科技创新，努力提升自主研发能力，推动知识产权申报工作取得新进展。知识产权的不断积累提升了企业的核心竞争力和品牌影响力。

Honor comes from hard work. Each recognized qualification certificate embodies the spirit of quick-moving hard work and innovation. Every honor is hard-won, and we will cherish it, as always, provide customers with high-quality products and thoughtful after-sales service. The company attaches great importance to technological innovation, strives to improve its independent research and development capabilities, and promotes new progress in the declaration of intellectual property rights. The continuous accumulation of intellectual property rights has enhanced the core competitiveness and brand influence of enterprises.



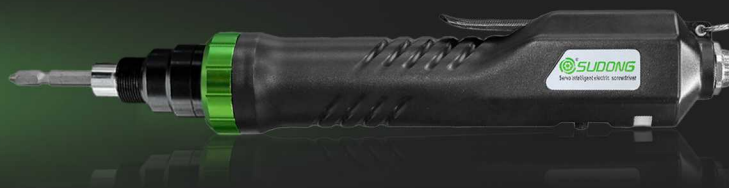
荣誉只代表过去，
未来我们必将更加努力！
Honor only represents the past, We will work harder in the future!

通过质量管理体系 ISO 9001:2015 认证



专业更专注

Professional more focused



工业级无刷伺服智能电动螺丝刀

助力迈入工业 4.0智能装配时代

拧紧作业全自动

拧紧扭力自适应

拧紧品质可追溯

在数据化、信息化的时代，制造业正处于全新的高度，激烈的市场竞争，要体现出自身的优势，那就必须获取更多的制造信息。

In the era of data and information, manufacturing is at a new height. In the fierce market competition, to reflect its own advantages, it is necessary to obtain more manufacturing information.

在生产、制造过程中使用具有拧紧信息收集与通信的工具，将极大地提高产品质量，提高解决问题的能力，并有效降低能耗。

Tools with tightening information collection and communication are used in the manufacturing process. It will greatly improve product quality, improve the ability of tools to solve problems, and effectively reduce energy consumption.

电动螺丝刀用于各种严苛环境中，因此精确度、重复性和可靠的工作周期都是它的关键所在。速动的无刷空心杯电机具有峰值扭矩和稳定的运转速度，为速动电动螺丝刀提供一流性能，同时我们还为其做了一系列的优化，其中包括：轻量化设计、符合人体工程学握把、自由调整转速、计数、报错等，可以敏捷地工作于各种级别的拧紧装配作业中。

Electric screwdriver are used in a variety of harsh environment, so accuracy, repeatability and reliable working cycle are all key to it. Sudong brushless hollow cup motor has high peak torque and stable running speed, providing first-class performance for the Sudong electric screwdriver, and we have also made a series of optimizations, including: lightweight design, ergonomics Grip, freely speed adjustment, counting, errors reporting, etc., it can work agilely in various levels of tightening assembly operations.

速动无刷电动螺丝刀应用领域 The Application fields of SUDONG Brushless Electric Screwdriver

速动无刷电动螺丝刀应用领域之广泛，几乎适用于整个轻工业生产装配。我们拥有专业团队，应对不同拧紧要求做出相应的解决方案，为客户特殊应用定制专业的操作培训；以及应用周边配套设施使用指引。让客户拥有更得心应手的拧紧工具，有效提高整个拧紧装配作业质量。

Sudong brushless electric screwdriver is widely used in all light industrial production and assembly. We have a professional team, to respond to different tightening requirements and make appropriate solutions, customize professional operation training for customers' special applications, and apply the guidelines for the use of surrounding facilities. Let customers have more handy tightening tools, effectively improve the quality of the whole tightening assembly work.





动车电子设备组装 Train electronics Assembly

产品名称：智能伺服电流控扭手按式

项目特点：无刷智能伺服电机，使用寿命长，无噪音、无干扰。扭矩和转速可自由设定调节，扭矩精度控制 $\pm 5\%$ ，配合智能伺服控制器，记录所有重要的拧紧过程参数。

Product Name: Intelligent servo current torque controlled hand press
Project Feature: Brushless intelligent servo motor, long service life, no noise and no interference. Torque and speed can be freely set and adjusted, torque precision control $\pm 5\%$, with intelligent servo controller, record all important tightening process parameters.



军工电子设备组装 Military Electronics Assembly

产品名称：智能伺服电流控扭手按式

项目特点：采用伺服电机，可以实现自由编程、扭力可调节，其性能满足军工领域中的高效性、精确性以及便捷性的特点，大大提高了工作效率，降低了生产成本。

Product Name: Intelligent servo current torque controlled hand press
Project Feature: The use of servo motors, can realize free programming, torque can be adjusted its performance, to meet the military industry in the field of high efficiency, accuracy and convenience of the characteristics of the field, greatly improving the efficiency of the work and reduce production costs.



新能源自动化 New Energy Automation

产品名称：智能伺服扭矩传感器手按式

项目特点：工业数字化控制扭矩、转速，全面提升新能源自动化的装配效率和生产质量，推动新能源发展。

Product Name: Intelligent Servo Torque Transducer Hand Press Type
Project Feature: Industrial digital control of torque and speed, comprehensively improve the assembly efficiency and production quality of new energy automation, and promote the development of new energy.



电动助力车组装 Assembly Of Electric Assisted Vehicles

产品名称：智能伺服机用型电动螺丝刀

项目特点：可根据自由设定的扭矩值进行自动控制，使每个螺丝的紧固力度保持一致。这种精确性的控制可以有效避免因紧固不力或过度而产生的质量问题。

Product Name: Intelligent servo type electric screwdriver
Project Feature: Automatic control based on a freely set torque value keeps the tightening strength of each screw consistent. This precision control effectively avoids quality problems caused by poor or excessive tightening.



5G通讯设备组装 Assembly of 5G Telecom Equipment

产品名称：智能伺服电流控扭手按式

项目特点：5G通讯设备具有精密化、自动化、高效、快速的要求，是在螺栓拧紧组装环节中重复次数较多的工序。智能伺服电动螺丝刀是在精密装配必备的智能拧紧工具。

Product Name: Intelligent servo current torque controlled hand press

Project Feature: 5G communication equipment has the requirements of precision, automation, high efficiency and speed, and it is a process with a high number of repetitions in the bolt tightening assembly process. Intelligent servo electric screwdriver is a must-have intelligent tightening tool in precision assembly.



光伏储能设备组装 Assembly of photovoltaic storage devices

产品名称：智能伺服电流控扭手按式

项目特点：光伏储能使用速动智能伺服电动螺丝刀，其性能优越、特别适合长时间连续使用，可以快速而准确地完成各种紧固任务，大大节约了时间和人力成本。

Product Name: Intelligent servo current torque controlled hand press

Project Feature: Photovoltaic energy storage using speed intelligent servo electric screwdriver, its superior performance, especially suitable for long time continuous use, can quickly and accurately complete a variety of fastening tasks, greatly saving time and labor costs.



新能源汽车部件组装 New Energy Vehicle Parts Assembly

产品名称：智能伺服电流控扭手按式

项目特点：采用智能伺服无刷电机，降低了运行成本，长寿命的使用周期，其满足合格率高达99.9%以上。

Product Name: Intelligent servo current torque controlled hand press

Project Feature: intelligent servo brushless motor, which reduces the running cost and long life cycle, and its fulfillment pass rate is up to more than 99.9%.



汽车制造使用实例 Examples of auto manufacturing use

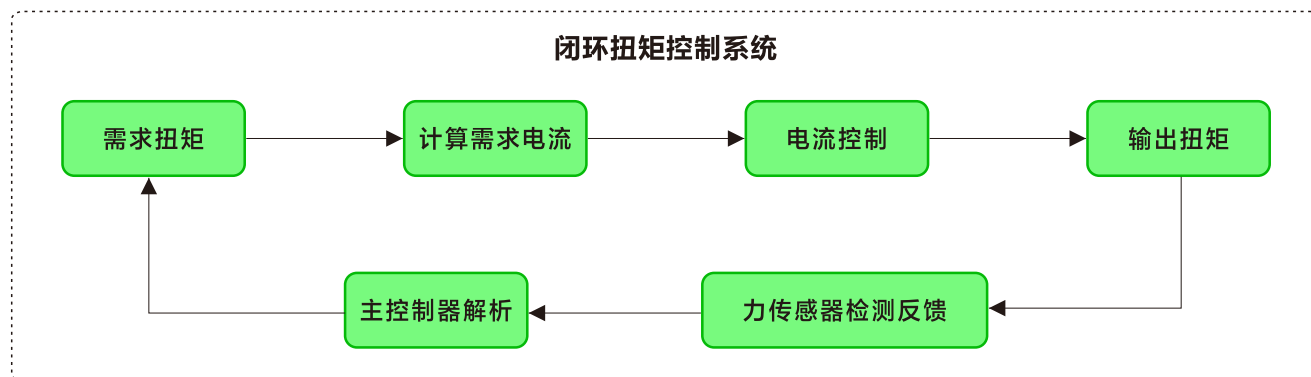
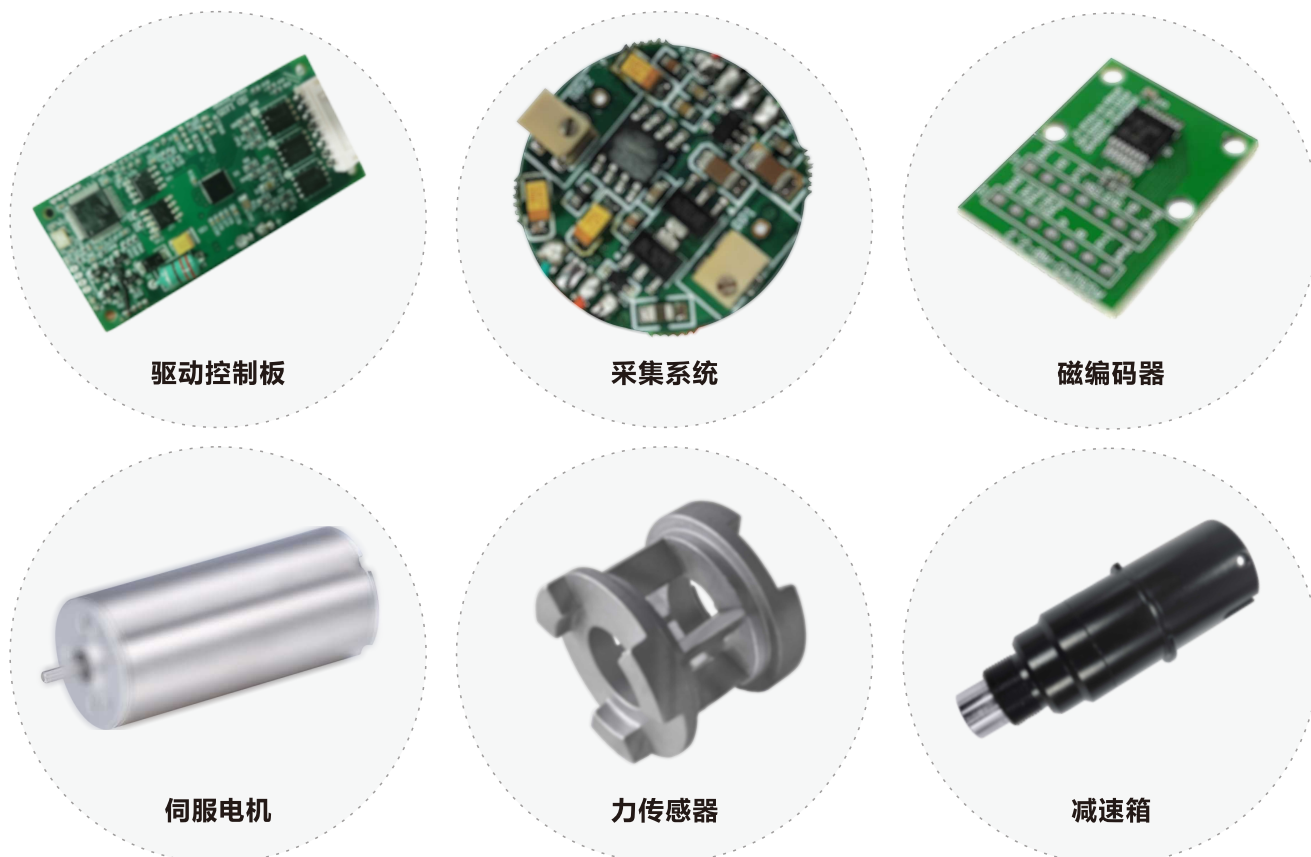
产品名称：智能伺服电流控扭手按式

项目特点：实现无刷伺服电动螺丝刀在各个拧紧过程中的精准控制，并记录所有重要的拧紧过程，实现精准的紧固，拧紧过程可追溯。

Product Name: Intelligent servo current torque controlled hand press

Project Feature: Realize precise control of brushless servo electric screwdriver in each tightening process, and record all important tightening processes to realize precise tightening and traceability of the tightening process.

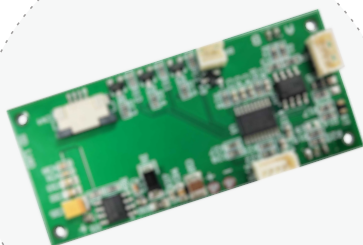
传感器式拧紧工具关键技术及配件 Key technologies and accessories for sensor-based tightening tools



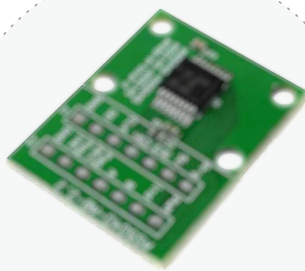
关键参数 Key parameters

扭矩	0.01-1750 N.m
转速	50-1000rpm
精度	标准偏差±2.5%
CMK	≥1.67
寿命	> 200万次拧紧
重量	650-1500g
控制方式	内置力传感器，闭环力控制
电机	智能伺服电机
启动方式	手按式

电流控扭式拧紧工具关键技术及配件 Key technologies and accessories for current-controlled tightening tools



控制板



磁编码器



伺服电机

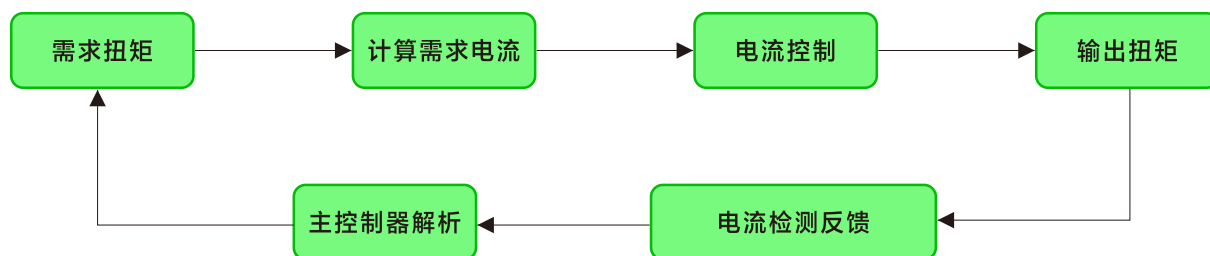


减速箱

外观 Appearances



闭环扭矩控制系统



关键参数 Key parameters

扭矩	0.01-65 N.m
转速	50-6000rpm
精度	标准偏差±5%
CMK	≥1.67
寿命	> 200万次拧紧
重量	260-2100g
控制方式	电流检测
电机	智能伺服电机
启动方式	手按式

通过认证产品

Certification through products



SD - NC 2500 L A B ESD - X2

SD:速动产品 SUDONG Products	
系列代码	Series code
NC:无刷伺服智能系列	Brushless servo smart electric screwdriver series
2500:公司自定义型号	Custom Model
公司自定义功能代号	Company custom function codes
启动方式及外观	Startup and Appearance
L:直柄按板式	Straight Handle Press Plate Type
P:直柄下压式	Straight Handle Downward Pressing Type
T:枪型按板式	Gun type by plate
W:弯角按板式	Angle by plate
AT:自动机型	Automatic model
Li:枪型按板式锂电	Gun type by plate type carp electric
控制方式	Control Mode
S:传感式	Sensor type
A:电流式	Current type
批咀型号	Nozzle Model
A: 5mm HEX	B:1/4-HEX
C: Ø4	D: Ø5 W:3/8-HEX
ESD:防静电规格	Anti-static Specifications
全系列安全低压供电	All series safe low voltage power supply
控制器型号	Controller Model
X2	2" screen
X7	7" screen
Q:带真空吸头	With a Vacuum Suction Part

速动电动螺丝刀型号扭力一览表

Sudong electric screwdriver model torque list



类别 Category	型号 Model	扭力范围 (kgf.cm) Torque range	重量 Weight	空载转速 No load speed(r.p.m)	页码 Page
智能伺服扭矩传感器手按式 Intelligent servo transducer hand Press	SD-NC100L-SB-X7	1-10	650g	50-1000	20
	SD-NC200L-SB-X7	2-20		50-1000	
	SD-NC350L-SB-X7	5-35		50-650	
	SD-NC500L-SB-X7	5-45		50-650	
	SD-NC600L-SB-X7	10-60	1400g	50-650	
	SD-NC1000L-SB-X7	20-100		50-450	
	SD-NC1500L-SB-X7	30-150		50-300	
	SD-NC2500L-SB-X7	50-250		50-200	
	SD-NC4000L-SW-X7	90-400	1500g	50-130	22
	SD-NC6500L-SW-X7	130-650		50-100	
	SD-NC100L-SB-X2	1-10	650g	50-1000	
	SD-NC200L-SB-X2	2-20		50-1000	
	SD-NC350L-SB-X2	5-35		50-650	
	SD-NC500L-SB-X2	5-45		50-650	
	SD-NC600L-SB-X2	10-60	1400g	50-650	
	SD-NC1000L-SB-X2	20-100		50-450	
	SD-NC1500L-SB-X2	30-150		50-300	
	SD-NC2500L-SB-X2	50-250		50-200	
	SD-NC4000L-SW-X2	90-400	1500g	50-130	23
	SD-NC6500L-SW-X2	130-650		50-100	
扭矩传感器枪型扳手 Torque Sensor Gun Wrench	SD-NC600T-SB-X7/X2	10-60	1400g	50-650	
	SD-NC1000T-SB-X7/X2	20-100		50-450	
	SD-NC1500T-SB-X7/X2	30-150		50-300	
	SD-NC2500T-SB-X7/X2	50-250		50-200	
	SD-NC4000T-SW-X7/X2	90-400	1500g	50-130	24
	SD-NC6500T-SW-X7/X2	130-650		50-100	
扭矩传感器弯角扳手 Torque Sensor Angle Wrench	SD-NC1200W-SW-X7/X2	20-120	2000g	700	
	SD-NC1800W-SW-X7/X2	30-180		480	
	SD-NC3000W-SW-X7/X2	50-300		320	
	SD-NC4000W-SW-X7/X2	90-400		200	
	SD-NC6500W-SW-X7/X2	130-650	2100g	130	26
智能伺服电流控制手按式 Intelligent servo current torque controlled hand press	SD-NC08L-AC-X7	0.1-0.8	260g	50-2000	
	SD-NC30L-AC-X7	0.1-3		50-2000	
	SD-NC60L-AC-X7	0.5-6		50-1200	
	SD-NC120L-AD-X7	1-12		50-1200	
	SD-NC100L-AB-X7	1-10	780g	50-2000	28
	SD-NC200L-AB-X7	2-20		50-1600	
	SD-NC350L-AB-X7	5-35		50-800	
	SD-NC500L-AB-X7	5-50		50-500	
	SD-NC700L-AB-X7	10-70	1200g	50-1000	
	SD-NC1000L-AB-X7	20-100		50-1000	
	SD-NC1500L-AB-X7	30-150		50-800	
	SD-NC2500L-AB-X7	50-250		50-500	
	SD-NC4000L-AW-X7	90-400	1300g	50-300	
	SD-NC6500L-AW-X7	130-650		50-200	
	SD-NC08L-AC-X2	0.1-0.8	260g	50-2000	28
	SD-NC30L-AC-X2	0.1-3		50-2000	
	SD-NC60L-AC-X2	0.5-6		50-1200	
	SD-NC120L-AD-X2	1-12		50-1200	
	SD-NC100L-AB-X2	1-10	780g	50-2000	
	SD-NC200L-AB-X2	2-20		50-1600	
	SD-NC350L-AB-X2	5-35		50-800	
	SD-NC500L-AB-X2	5-50		50-500	
	SD-NC700L-AB-X2	10-70	1200g	50-1000	
	SD-NC1000L-AB-X2	20-100		50-1000	
	SD-NC1500L-AB-X2	30-150		50-800	
	SD-NC2500L-AB-X2	50-250		50-500	
	SD-NC4000L-AW-X2	90-400	1300g	50-300	
	SD-NC6500L-AW-X2	130-650		50-200	

注：扭矩单位转换：1kgf.cm=0.098N.m 1kgf.cm=0.868Lbf.in
 Note: Torque unit conversion: 1kgf. cm=0. 098N. m 1kgf. cm=0. 868Lbf. in

! 本目录内容会有因产品改良而变更的可能性，恕不另行通知
 The contents of this catalog may be changed due to product improvement without notice

速动电动螺丝刀

Sudong electric screwdriver

利用开放协议与所有制造企业生产执行系统对接整合，提供所需信息，优化生产过程。
Use open protocols to integrate with productive execution systems of all manufacturing enterprises, provide required information and optimize production process.

PF50系列智能拧紧系统可与所有机器、设备、传感器、条码读取器保持



机型特点 Model feature



伺服电机
Servo Motor



自由编程
Free programming



扭矩传感器
Torque sensor



LED提示灯
LED prompt light



错误提示
Error prompt



锁附参数
Locking parameters



简易安装
Easy installation



大扭输出
Big torque output

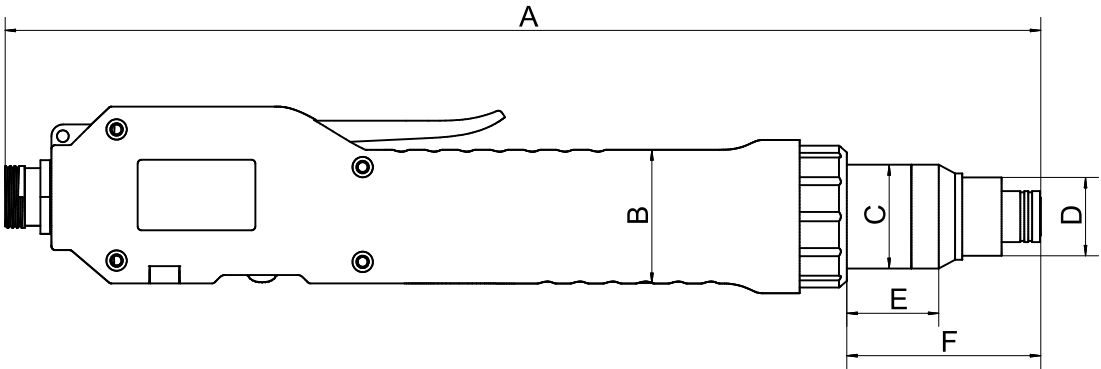
- 速动无刷伺服电动螺丝刀可实现拧紧装配过程的自由编程。在性能参数范围内，能够根据不同的拧紧工艺要求，自由设定和调节扭矩、转速、等待时间和旋转方向，实现精准的紧固。
Sudong brushless servo electric screwdrivers can realize free programming of the tightening assembly process. Within the performance parameters, it can realize precise fastening, according to different tightening process requirements to set freely, adjusting torque, speed, waiting time and direction of rotation.
- 速动无刷伺服电动螺丝刀基于伺服控制技术，能确保数百万次拧紧装配的扭矩精度控制在标准偏差 $\pm 2.5\%$ 。
Sudong brushless servo electric screwdriver is based on servo control technology, to ensure that the torque accuracy of tightening torque assembly controlled within standard deviation $\pm 2.5\%$.
- 通过内置的扭矩传感器和角度传感器可以实现无刷伺服电动螺丝刀在各个拧紧过程中的精确控制，并实时记录所有重要的拧紧过程参数。
Through the built-in torque and rotative angle sensor, it can achieve precise control of the NCS screwdrivers during each tightening process and record all important parameters of tightening process in real time.
- 正常工作状态下，速动无刷伺服电动螺丝刀能够实现 $Cmk \geq 1.67$ (扭矩设定公差 $\pm 10\%$)，符合ISO 5393 以及6Sigma原则。1.67的Cmk值意味着每百万颗螺丝仅有0.6次的失误率，即合格率高达99.99994%。
Under normal working condition, Sudong brushless servo electric screwdriver can achieve $Cmk \geq 1.67$ (torque setting tolerance $\pm 10\%$), complying with ISO 5393 and 6Sigma principles. Cmk value of 1.67 means only 0.6 failure rate per million screws, that is the qualified rate is as high as 99.99994%.
- 速动无刷伺服电动螺丝刀采用无刷电机，配合SD-X7-8-S控制器，确保拧紧工艺的灵活性和过程可靠性。
Sudong brushless servo electric screwdriver adopts brushless motor, supplied with SD-X7-8-S controller, to ensure the flexibility of tightening technique and reliability of tightening process.
- 内置电流和角度测量可以实现对速动无刷伺服电动螺丝刀在各个拧紧过程中的精确控制和监测，实现记录所有重要的拧紧过程参数，并确保最高精度。
Built-in current and rotative angle measurements can realize precise control and monitoring of Sudong brushless servo electric screwdrivers during each tightening process, record all important parameters of tightening process, and ensure the highest accuracy.

智能伺服扭矩传感器手按式

Intelligent Servo Torque Transducer Hand Press Type

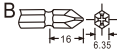
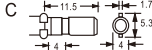
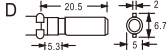


外观尺寸 Physical dimension



型号 Model	A	B	C	D	E	F
SD-NC100L-SB-X7 SD-NC200L-SB-X7 SD-NC350L-SB-X7 SD-NC500L-SB-X7	300	40	32	M20	16	48
SD-NC600L-SB-X7 SD-NC1000L-SB-X7 SD-NC1500L-SB-X7 SD-NC2500L-SB-X7 SD-NC4000L-SW-X7 SD-NC6500L-SW-X7	355 360	45	41	- -	68 74	96 102

技术参数 Technical parameters

型号Model	扭力范围 Torque Range		空载转速 No load speed (r. p. m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Screw Bit
手按式 Hand press	kgf.cm	N.m				
SD-NC100L-SB-X7	1-10	0.1-1	50-1000	30V	650	1/4-Hex
SD-NC200L-SB-X7	2-20	0.2-2	50-1000			1/4-Hex
SD-NC350L-SB-X7	5-35	0.5-3.5	50-650			1/4-Hex
SD-NC500L-SB-X7	5-45	0.5-4.5	50-650			1/4-Hex
SD-NC600L-SB-X7	10-60	1-6	50-650		1400	1/4-Hex
SD-NC1000L-SB-X7	20-100	2-10	50-450			1/4-Hex
SD-NC1500L-SB-X7	30-150	3-15	50-300			1/4-Hex
SD-NC2500L-SB-X7	50-250	5-25	50-200		1500	1/4-Hex
SD-NC4000L-SW-X7	90-400	9-40	50-130			3/8-Hex
SD-NC6500L-SW-X7	130-650	13-65	50-100			3/8-Hex
可选输出端起子头规格 Optional specification of screwdriver bits						
A  B  C  D  W 						



机型特点 Model feature



伺服电机
Servo Motor



自由编程
Free programming



扭矩传感器
Torque sensor



LED提示灯
LED prompt light



错误提示
Error prompt



锁附参数
Locking parameters



简易安装
Easy installation



大扭输出
Big torque output

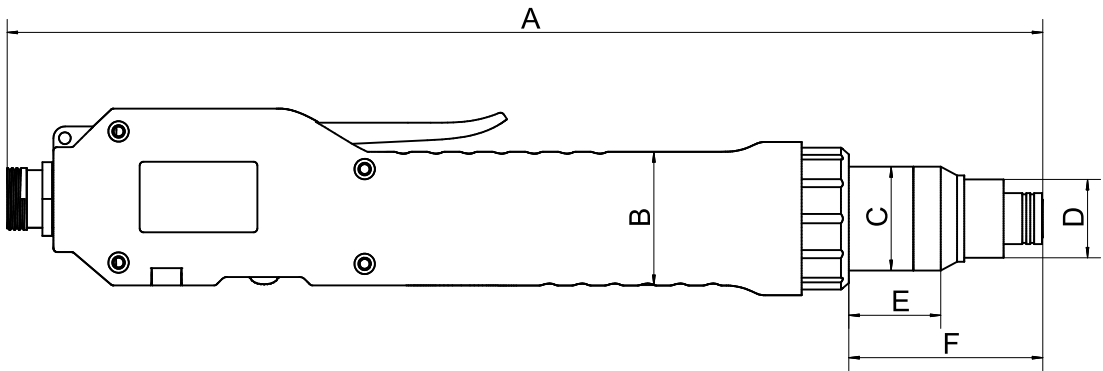
- 速动无刷伺服电动螺丝刀可实现拧紧装配过程的自由编程。在性能参数范围内，能够根据不同的拧紧工艺要求，自由设定和调节扭矩、转速、等待时间和旋转方向，实现精准的紧固。
Sudong brushless servo electric screwdrivers can realize free programming of the tightening assembly process. Within the performance parameters, it can realize precise fastening, according to different tightening process requirements to set freely, adjusting torque, speed, waiting time and direction of rotation.
- 速动无刷伺服电动螺丝刀基于伺服控制技术，能确保数百万次拧紧装配的扭矩精度控制在标准偏差 $\pm 2.5\%$ 。
Sudong brushless servo electric screwdriver is based on servo control technology, to ensure that the torque accuracy of tightening torque assembly controlled within standard deviation $\pm 2.5\%$.
- 通过内置的扭矩传感器和角度传感器可以实现无刷伺服电动螺丝刀在各个拧紧过程中的精确控制，并实时记录所有重要的拧紧过程参数。
Through the built-in torque and rotative angle sensor, it can achieve precise control of the NCS screwdrivers during each tightening process and record all important parameters of tightening process in real time.
- 正常工作状态下，速动无刷伺服电动螺丝刀能够实现 $Cmk \geq 1.67$ (扭矩设定公差 $\pm 10\%$)，符合ISO 5393 以及6Sigma原则。1.67的Cmk值意味着每百万颗螺丝仅有0.6次的失误率，即合格率高达99.99994%。
Under normal working condition, Sudong brushless servo electric screwdriver can achieve $Cmk \geq 1.67$ (torque setting tolerance $\pm 10\%$), complying with ISO 5393 and 6Sigma principles. Cmk value of 1.67 means only 0.6 failure rate per million screws, that is the qualified rate is as high as 99.99994%.
- 速动无刷伺服电动螺丝刀采用无刷电机，配合SD-X2-8-S控制器，确保拧紧工艺的灵活性和过程可靠性。
Sudong brushless servo electric screwdriver adopts brushless motor, supplied with SD-X2-8-S controller, to ensure the flexibility of tightening technique and reliability of tightening process.
- 内置电流和角度测量可以实现对速动无刷伺服电动螺丝刀在各个拧紧过程中的精确控制和监测，实现记录所有重要的拧紧过程参数，并确保最高精度。
Built-in current and rotative angle measurements can realize precise control and monitoring of Sudong brushless servo electric screwdrivers during each tightening process, record all important parameters of tightening process, and ensure the highest accuracy.

智能伺服扭矩传感器手按式

Intelligent Servo Torque Transducer Hand Press Type

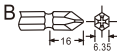
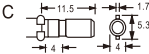
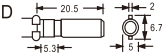
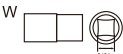


外观尺寸 Physical dimension



型号 Model	A	B	C	D	E	F
SD-NC100L-SB-X2 SD-NC200L-SB-X2 SD-NC350L-SB-X2 SD-NC500L-SB-X2	300	40	32	M20	16	48
SD-NC600L-SB-X2 SD-NC1000L-SB-X2 SD-NC1500L-SB-X2 SD-NC2500L-SB-X2 SD-NC4000L-SW-X2 SD-NC6500L-SW-X2	355 360	45	41	- -	68 74	96 102

技术参数 Technical parameters

型号Model	扭力范围 Torque Range		空载转速 No load speed (r. p. m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Screw Bit
手按式 Hand press	kgf.cm	N.m				
SD-NC100L-SB-X2	1-10	0.1-1	50-1000	30V	650	1/4-Hex
SD-NC200L-SB-X2	2-20	0.2-2	50-1000			1/4-Hex
SD-NC350L-SB-X2	5-35	0.5-3.5	50-650			1/4-Hex
SD-NC500L-SB-X2	5-45	0.5-4.5	50-650			1/4-Hex
SD-NC600L-SB-X2	10-60	1-6	50-650		1400	1/4-Hex
SD-NC1000L-SB-X2	20-100	2-10	50-450			1/4-Hex
SD-NC1500L-SB-X2	30-150	3-15	50-300			1/4-Hex
SD-NC2500L-SB-X2	50-250	5-25	50-200		1500	1/4-Hex
SD-NC4000L-SW-X2	90-400	9-40	50-130			3/8-Hex
SD-NC6500L-SW-X2	130-650	13-65	50-100			3/8-Hex
可选输出端起子头规格 Optional specification of screwdriver bits						
A B C D W						



机型特点 Model feature



伺服电机
Servo Motor



自由编程
Free programming



LED提示灯
LED prompt light



错误提示
Error prompt



锁附参数
Locking parameters



简易安装
Easy installation

技术参数 Technical parameters

型号Model 枪型扳手 Gun wrench	扭力范围 Torque Range		空载转速 No load speed (r. p. m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Screw Bit
	kgf.cm	N.m				
SD-NC600T-SB-X7	10-60	1-6	50-650	30V	1400	1/4-Hex
SD-NC1000T-SB-X7	20-100	2-10	50-450			1/4-Hex
SD-NC1500T-SB-X7	30-150	3-15	50-300			1/4-Hex
SD-NC2500T-SB-X7	50-250	5-25	50-200		1500	1/4-Hex
SD-NC4000T-SW-X7	90-400	9-40	50-130			3/8-Hex
SD-NC6500T-SW-X7	130-650	13-65	50-100			3/8-Hex

可选扳手输出头按需定制
Optional wrench output head on demand



机型特点 Model feature



伺服电机
Servo Motor



自由编程
Free programming



LED提示灯
LED prompt light



错误提示
Error prompt



锁附参数
Locking parameters



简易安装
Easy installation

技术参数 Technical parameters

型号Model 枪型扳手 Gun wrench	扭力范围 Torque Range		空载转速 No load speed (r. p. m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Screw Bit
	kgf.cm	N.m				
SD-NC600T-SB-X2	10-60	1-6	50-650	30V	1400	1/4-Hex
SD-NC1000T-SB-X2	20-100	2-10	50-450			1/4-Hex
SD-NC1500T-SB-X2	30-150	3-15	50-300			1/4-Hex
SD-NC2500T-SB-X2	50-250	5-25	50-200		1500	1/4-Hex
SD-NC4000T-SW-X2	90-400	9-40	50-130			3/8-Hex
SD-NC6500T-SW-X2	130-650	13-65	50-100			3/8-Hex

可选扳手输出头按需定制
Optional wrench output head on demand

智能伺服扭矩传感器弯角扳手

Intelligent Servo Torque Sensor Angle Wrench



机型特点 Model feature



伺服电机
Servo Motor



自由编程
Free programming



LED提示灯
LED prompt light



错误提示
Error prompt



锁附参数
Locking parameters



简易安装
Easy installation

技术参数 Technical parameters

型号Model	扭力范围 Torque Range		空载转速 No load speed(r. p. m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Screw Bit
弯角扳手 Angle wrench	kgf.cm	N.m				
SD-NC1200W-SW-X7	20-120	2-12	700	30V	2000	3/8-Hex
SD-NC1800W-SW-X7	30-180	3-18	500			3/8-Hex
SD-NC3000W-SW-X7	50-300	5-30	300			3/8-Hex
SD-NC4000W-SW-X7	90-400	9-40	200		2100	3/8-Hex
SD-NC6500W-SW-X7	130-650	13-65	150			3/8-Hex
可选扳手输出头按需定制 Optional wrench output head on demand						



机型特点 Model feature



伺服电机
Servo Motor



自由编程
Free programming



LED提示灯
LED prompt light



错误提示
Error prompt



锁附参数
Locking parameters



简易安装
Easy installation

技术参数 Technical parameters

型号Model	扭力范围 Torque Range		空载转速 No load speed(r. p. m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Screw Bit
弯角扳手 Angle wrench	kgf.cm	N.m				
SD-NC1200W-SW-X2	20-120	2-12	700	30V	2000	3/8-Hex
SD-NC1800W-SW-X2	30-180	3-18	500			3/8-Hex
SD-NC3000W-SW-X2	50-300	5-30	300			3/8-Hex
SD-NC4000W-SW-X2	90-400	9-40	200		2100	3/8-Hex
SD-NC6500W-SW-X2	130-650	13-65	150			3/8-Hex
可选扳手输出头按需定制 Optional wrench output head on demand						



机型特点 Model feature



伺服电机
Servo Motor



自由编程
Free programming



LED提示灯
LED prompt light



错误提示
Error prompt



锁附参数
Locking parameters



简易安装
Easy installation

- 速动无刷伺服电动螺丝刀可实现拧紧装配过程的自由编程。在性能参数范围内，能够根据不同的拧紧工艺要求，自由设定和调节扭矩、转速、等待时间和旋转方向，实现精准的紧固。

Sudong brushless servo electric screwdrivers can realize free programming of the tightening assembly process. Within the performance parameters, it can realize precise fastening, according to different tightening process requirements to set freely, adjusting torque, speed, waiting time and direction of rotation.
- 速动无刷伺服电动螺丝刀基于伺服控制技术，能确保数百万次拧紧装配的扭矩精度控制在标准偏差 $\pm 5\%$ 。

Sudong brushless servo electric screwdriver is based on servo control technology, to ensure that the torque accuracy of tightening torque assembly controlled within standard deviation $\pm 5\%$.
- 正常工作状态下，速动无刷伺服电动螺丝刀能够实现 $Cmk \geq 1.67$ (扭矩设定公差 $\pm 10\%$)，符合ISO 5393 以及6Sigma原则。1.67的Cmk值意味着每百万颗螺丝仅有0.6次的失误率，即合格率高达99.99994%。

Under normal working condition, Sudong brushless servo electric screwdriver can achieve $Cmk \geq 1.67$ (torque setting tolerance $\pm 10\%$), complying with ISO 5393 and 6Sigma principles. Cmk value of 1.67 means only 0.6 failure rate per million screws, that is the qualified rate is as high as 99.99994%.
- 速动无刷伺服电动螺丝刀采用无刷电机，配合SD-X7-16S-A或SD-X7-16L-A控制器，确保拧紧工艺的灵活性和过程可靠性。

Sudong brushless servo electric screwdriver adopts brushless motor, supplied with SD-X7-16S-A or SD-X7-16L-A controller, to ensure the flexibility of tightening technique and reliability of tightening process.
- 内置电流和角度测量可以实现对速动无刷伺服电动螺丝刀在各个拧紧过程中的精确控制和监测，实现记录所有重要的拧紧过程参数，并确保最高精度。

Built-in current and rotative angle measurements can realize precise control and monitoring of Sudong brushless servo electric screwdrivers during each tightening process, record all important parameters of tightening process, and ensure the highest accuracy.
- 采用无刷伺服电机显著降低了运行成本，从而获得长寿命使用周期，同时确保稳健的动力性能和扭矩峰值输出，是客户理想的数控拧紧装配工艺选择。

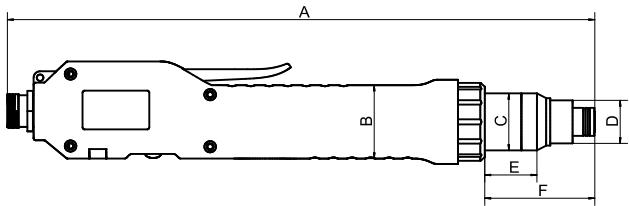
The adoption of brushless servo motors significantly reduce the running costs, thus obtain long life of usage cycle. Meanwhile, ensure robust power performance and peak torque output. It is the ideal choice for NC tightening assembly technique to clients.

智能伺服电流控扭手按式

Intelligent servo current torque controlled hand press



外观尺寸 Physical dimension



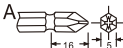
型号 Model	A	B	C	D	E	F
SD-NC08L-AC-X7 SD-NC30L-AC-X7 SD-NC60L-AC-X7	227	28	22.5	M18	5.5	36.5
SD-NC120L-AD-X7	264	34	26.5	M20	8.5	34.5
SD-NC100L-AB-X7 SD-NC200L-AB-X7 SD-NC350L-AB-X7 SD-NC500L-AB-X7	300	40	32	M20	16	48
SD-NC700L-AB-X7 SD-NC1000L-AB-X7 SD-NC1500L-AB-X7 SD-NC2500L-AB-X7 SD-NC4000L-AW-X7 SD-NC6500L-AW-X7	312 318	45	39	-	29 35	54 60

技术参数 Technical parameters

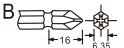
型号Model	扭力范围 Torque Range		空载转速 No load speed (r. p. m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Screw Bit
手按式 Hand press	kgf.cm	N.m				
SD-NC08L-AC-X7	0.1-0.8	0.01-0.08	50-1200	48V	260	Ø4mm
SD-NC30L-AC-X7	0.1-3	0.01-0.3	50-2000			Ø4mm
SD-NC60L-AC-X7	0.5-6	0.05-0.6	50-1200			Ø4mm
SD-NC120L-AD-X7	1-12	0.1-1.2	50-1200		430	Ø5mm
SD-NC100L-AB-X7	1-10	0.1-1	50-2000			1/4-Hex
SD-NC200L-AB-X7	2-20	0.2-2	50-1600		780	1/4-Hex
SD-NC350L-AB-X7	5-35	0.5-3.5	50-800			1/4-Hex
SD-NC500L-AB-X7	5-50	0.5-5	50-500			1/4-Hex
SD-NC700L-AB-X7	10-70	1-7	50-1000			1/4-Hex
SD-NC1000L-AB-X7	20-100	2-10	50-1000		1200	1/4-Hex
SD-NC1500L-AB-X7	30-150	3-15	50-800			1/4-Hex
SD-NC2500L-AB-X7	50-250	5-25	50-500			1/4-Hex
SD-NC4000L-AW-X7	90-400	9-40	50-300		1300	3/8-Hex
SD-NC6500L-AW-X7	130-650	13-65	50-200			3/8-Hex

可选输出端起子头规格
Optional specification of screwdriver bits

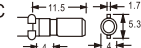
A



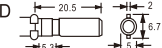
B



C



D



W





机型特点 Model feature



伺服电机
Servo Motor



自由编程
Free programming



LED提示灯
LED prompt light



错误提示
Error prompt



锁附参数
Locking parameters



简易安装
Easy installation

- 速动无刷伺服电动螺丝刀可实现拧紧装配过程的自由编程。在性能参数范围内，能够根据不同的拧紧工艺要求，自由设定和调节扭矩、转速、等待时间和旋转方向，实现精准的紧固。

Sudong brushless servo electric screwdrivers can realize free programming of the tightening assembly process. Within the performance parameters, it can realize precise fastening, according to different tightening process requirements to set freely, adjusting torque, speed, waiting time and direction of rotation.
- 速动无刷伺服电动螺丝刀基于伺服控制技术，能确保数百万次拧紧装配的扭矩精度控制在标准偏差 $\pm 5\%$ 。

Sudong brushless servo electric screwdriver is based on servo control technology, to ensure that the torque accuracy of tightening torque assembly controlled within standard deviation $\pm 5\%$.
- 正常工作状态下，速动无刷伺服电动螺丝刀能够实现 $Cmk \geq 1.67$ (扭矩设定公差 $\pm 10\%$)，符合ISO 5393 以及6Sigma原则。1.67的Cmk值意味着每百万颗螺丝仅有0.6次的失误率，即合格率高达99.99994%。

Under normal working condition, Sudong brushless servo electric screwdriver can achieve $Cmk \geq 1.67$ (torque setting tolerance $\pm 10\%$), complying with ISO 5393 and 6Sigma principles. Cmk value of 1.67 means only 0.6 failure rate per million screws, that is the qualified rate is as high as 99.99994%.
- 速动无刷伺服电动螺丝刀采用无刷电机，配合SD-X2-16S-A或SD-X2-16L-A控制器，确保拧紧工艺的灵活性和过程可靠性。

Sudong brushless servo electric screwdriver adopts brushless motor, supplied with SD-X2-16S-A or SD-X2-16L-A controller, to ensure the flexibility of tightening technique and reliability of tightening process.
- 内置电流和角度测量可以实现对速动无刷伺服电动螺丝刀在各个拧紧过程中的精确控制和监测，实现记录所有重要的拧紧过程参数，并确保最高精度。

Built-in current and rotative angle measurements can realize precise control and monitoring of Sudong brushless servo electric screwdrivers during each tightening process, record all important parameters of tightening process, and ensure the highest accuracy.
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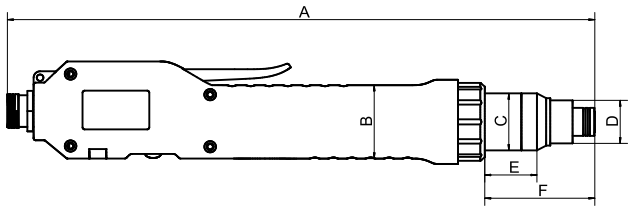
The adoption of brushless servo motors significantly reduce the running costs, thus obtain long life of usage cycle. Meanwhile, ensure robust power performance and peak torque output. It is the ideal choice for NC tightening assembly technique to clients.

智能伺服电流控扭手按式

Intelligent servo current torque controlled hand press



外观尺寸 Physical dimension

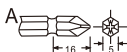


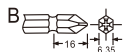
型号 Model	A	B	C	D	E	F
SD-NC08L-AC-X2 SD-NC30L-AC-X2 SD-NC60L-AC-X2	227	28	22.5	M18	5.5	36.5
SD-NC120L-AD-X2	264	34	26.5	M20	8.5	34.5
SD-NC100L-AB-X2 SD-NC200L-AB-X2 SD-NC350L-AB-X2 SD-NC500L-AB-X2	300	40	32	M20	16	48
SD-NC700L-AB-X2 SD-NC1000L-AB-X2 SD-NC1500L-AB-X2 SD-NC2500L-AB-X2 SD-NC4000L-AW-X2 SD-NC6500L-AW-X2	312 318	45	39	-	29 35	54 60

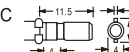
技术参数 Technical parameters

型号Model	扭力范围 Torque Range		空载转速 No load speed (r. p. m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Screw Bit
手按式 Hand press	kgf.cm	N.m				
SD-NC08L-AC-X2	0.1-0.8	0.01-0.08	50-1200	48V	260	Ø4mm
SD-NC30L-AC-X2	0.1-3	0.01-0.3	50-2000			Ø4mm
SD-NC60L-AC-X2	0.5-6	0.05-0.6	50-1200			Ø4mm
SD-NC120L-AD-X2	1-12	0.1-1.2	50-1200		430	Ø5mm
SD-NC100L-AB-X2	1-10	0.1-1	50-2000			1/4-Hex
SD-NC200L-AB-X2	2-20	0.2-2	50-1600		780	1/4-Hex
SD-NC350L-AB-X2	5-35	0.5-3.5	50-800			1/4-Hex
SD-NC500L-AB-X2	5-50	0.5-5	50-500			1/4-Hex
SD-NC700L-AB-X2	10-70	1-7	50-1000			1/4-Hex
SD-NC1000L-AB-X2	20-100	2-10	50-1000		1200	1/4-Hex
SD-NC1500L-AB-X2	30-150	3-15	50-800			1/4-Hex
SD-NC2500L-AB-X2	50-250	5-25	50-500			1/4-Hex
SD-NC4000L-AW-X2	90-400	9-40	50-300		1300	3/8-Hex
SD-NC6500L-AW-X2	130-650	13-65	50-200			3/8-Hex

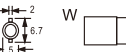
可选输出端起子头规格
Optional specification of screwdriver bits

A

B

C

D

W



机型特点 Model feature



伺服电机
Servo Motor



自由编程
Free programming



LED提示灯
LED prompt light



错误提示
Error prompt



锁附参数
Locking parameters



简易安装
Easy installation

技术参数 Technical parameters

型号Model 枪型扳手 Gun wrench	扭力范围 Torque Range		空载转速 No load speed (r. p. m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Screw Bit
	kgf.cm	N.m				
SD-NC350T-AB-X7	5-35	0.5-3.5	3000	48V	1050	1/4-Hex
SD-NC700T-AB-X7	10-70	1-7	2000			1/4-Hex
SD-NC1000T-AB-X7	20-100	2-10	1000			1/4-Hex
SD-NC1500T-AB-X7	30-150	3-15	700		1150	1/4-Hex
SD-NC2500T-AB-X7	50-250	5-25	500			1/4-Hex
SD-NC4000T-AW-X7	90-400	9-40	300			3/8-Hex
SD-NC6500T-AW-X7	130-650	13-65	200			3/8-Hex

可选扳手输出头按需定制
Optional wrench output head on demand



机型特点 Model feature



伺服电机
Servo Motor



自由编程
Free programming



LED提示灯
LED prompt light



错误提示
Error prompt



锁附参数
Locking parameters



简易安装
Easy installation

技术参数 Technical parameters

型号Model 枪型扳手 Gun wrench	扭力范围 Torque Range		空载转速 No load speed (r. p. m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Screw Bit
	kgf.cm	N.m				
SD-NC350T-AB-X2	5-35	0.5-3.5	3000	48V	1050	1/4-Hex
SD-NC700T-AB-X2	10-70	1-7	2000			1/4-Hex
SD-NC1000T-AB-X2	20-100	2-10	1000			1/4-Hex
SD-NC1500T-AB-X2	30-150	3-15	700		1150	1/4-Hex
SD-NC2500T-AB-X2	50-250	5-25	500			1/4-Hex
SD-NC4000T-AW-X2	90-400	9-40	300			3/8-Hex
SD-NC6500T-AW-X2	130-650	13-65	200			3/8-Hex

可选扳手输出头按需定制
Optional wrench output head on demand

智能伺服电流控扭弯角扳手

Intelligent servo current torque controlled angle wrench



机型特点 Model feature



伺服电机
Servo Motor



自由编程
Free programming



LED提示灯
LED prompt light



错误提示
Error prompt



锁附参数
Locking parameters



简易安装
Easy installation

技术参数 Technical parameters

型号Model	扭力范围 Torque Range		空载转速 No load speed(r. p. m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Screw Bit
弯角扳手 Angle wrench	kgf.cm	N.m				
SD-NC1200W-AW-X7	20-120	2-12	700	48V	2000	3/8-Hex
SD-NC1800W-AW-X7	30-180	3-18	500			3/8-Hex
SD-NC3000W-AW-X7	50-300	5-30	300			3/8-Hex
SD-NC4000W-AW-X7	90-400	9-40	200		2100	3/8-Hex
SD-NC6500W-AW-X7	130-650	13-65	150			3/8-Hex
可选扳手输出头按需定制 Optional wrench output head on demand						



机型特点 Model feature



伺服电机
Servo Motor



自由编程
Free programming



LED提示灯
LED prompt light



错误提示
Error prompt



锁附参数
Locking parameters



简易安装
Easy installation

技术参数 Technical parameters

型号Model	扭力范围 Torque Range		空载转速 No load speed(r. p. m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Screw Bit
弯角扳手 Angle wrench	kgf.cm	N.m				
SD-NC1200W-AW-X2	20-120	2-12	700	48V	2000	3/8-Hex
SD-NC1800W-AW-X2	30-180	3-18	500			3/8-Hex
SD-NC3000W-AW-X2	50-300	5-30	300			3/8-Hex
SD-NC4000W-AW-X2	90-400	9-40	200		2100	3/8-Hex
SD-NC6500W-AW-X2	130-650	13-65	150			3/8-Hex
可选扳手输出头按需定制 Optional wrench output head on demand						



机型特点 Model feature



伺服电机
Servo Motor



自由编程
Free programming



错误提示
Error prompt

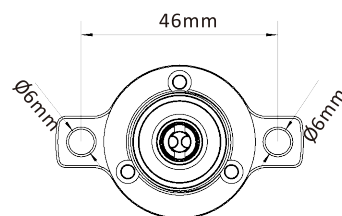
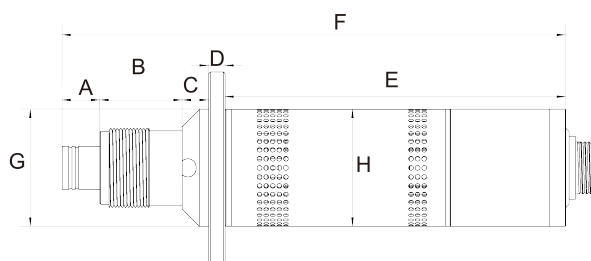


锁附参数
Locking parameters



简易安装
Easy installation

外观尺寸 Physical dimension



型号 Model	A	B	C	D	E	F	G	H
SD-NC50AT-AD-X2	11.5	25	8	5	103.5	153	35.53	35.4
SD-NC100AT-AD-X2	11.5	25	8	5	147.5	197	35.5	35.4

技术参数 Technical parameters

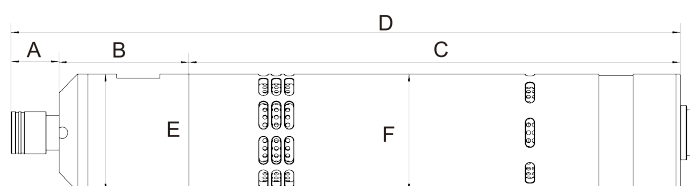
型号 Model	扭力范围 Torque Range		空载转速 No load speed (r. p. m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Screw bit
自动机用 For automata	kgf.cm	N.m				
SD-NC50AT-AD-X2	1-5	0.1-0.5	6000	48V	450	Ø5mm
SD-NC100AT-AD-X2	1-10	0.1-1	6000		630	Ø5mm

智能伺服电流控扭自动机用型

Intelligent servo current torque controlled automatic machine



外观尺寸 Physical dimension



型号 Model	A	B	C	D	E	F
SD-NC350AT-AB-X2	16.7	45.3	171.5	233.5	41	41
SD-NC700AT-AB-X2	16.7	45.3	171.5	233.5	41	41
SD-NC1000AT-AB-X2	16.7	57.3	171.5	245.5	41	41
SD-NC1500AT-AB-X2	16.7	57.3	171.5	245.5	41	41
SD-NC2500AT-AB-X2	16.7	57.3	171.5	245.5	41	41
SD-NC4000AT-AW-X2	30	63.4	171.5	264.9	41	41
SD-NC6500AT-AW-X2	30	63.4	171.5	264.9	41	41

技术参数 Technical parameters

型号Model	扭力范围 Torque Range		空载转速 No load speed (r.p.m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Screw bit
自动机用 For automata	kgf.cm	N.m				
SD-NC350AT-AB-X2	5-35	0.5-3.5	3000	48V	950	1/4-Hex
SD-NC700AT-AB-X2	10-70	1-7	2000		950	1/4-Hex
SD-NC1000AT-AB-X2	20-100	2-10	1000		1200	1/4-Hex
SD-NC1500AT-AB-X2	30-150	3-15	700		1200	1/4-Hex
SD-NC2500AT-AB-X2	50-250	5-25	500		1200	1/4-Hex
SD-NC4000AT-AW-X2	90-400	9-40	300		1500	3/8-Hex
SD-NC6500AT-AW-X2	130-650	13-65	200		1500	3/8-Hex



可匹配工具 Matchable tools



- SD-X2系列控制器完全控制整个拧紧过程，大幅度改善产品质量和优化拧紧流程，可自动识别浮锁、滑牙、扭矩不良、角度不良等拧紧故障。将整个拧紧过程数据储存生成曲线表，提供与拧紧过程相关的重要信息，完善装配过程。

SD-X2 series controller completely controls the whole tightening process, greatly improve product quality and optimize the tightening process, which can automatically identify floating lock, screw slippage, unqualified torque, unqualified angle and other tightening abnormalities. Store datas of the entire tightening process, generate curve tables, provide important information related to the tightening process, and improve the assembly process.

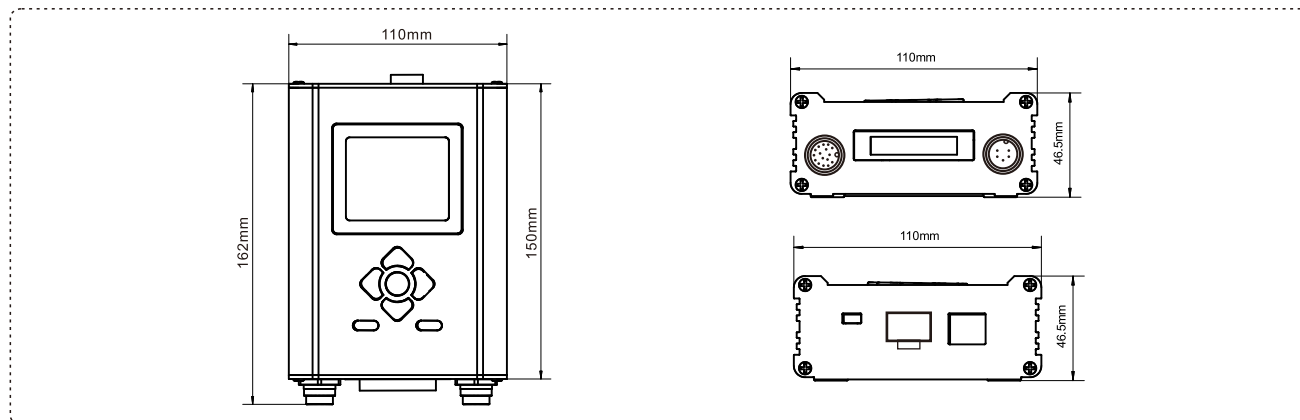
- 可通过任一通信端口与所有系统融合，接入生产管理系统和以太网打破了地域限制，实现远程监控拧紧过程。将条码扫描器与控制器连接，确保数据可追溯性，防止操作员可能存在的错误拧紧，可与生产管理系统进行无障碍连接，全面监测生产过程。

It can be integrated with all systems through any communication port. Access to the production management system and Ethernet breaks the geographical limitations, realizes the remote monitoring of tightening process, connects the barcode scanner with the controller, ensures data traceability, prevents operator's probable error tightening, and can be interconnected with the production management system. Make barrier-free connections and comprehensively monitor the production process.

- 根据不同的拧紧要求，可同时设置多种拧紧数据，将装配时间最小化，不同的拧紧模式在缩短循环时间的同时保证了高质量。为产品创设独一无二的作业顺序，实现无障碍装配。

According to different tightening requirements, multiple tightening parameters can be set at the same time, to minimize the assembly time. Different tightening modes ensure high quality while shortening the cycle time, creating a unique working sequence for the product and achieving barrier-free assembly.

外观尺寸 Physical dimension



控制器主要功能 Main functions of controller

拧紧要素 Tightening elements		错误警示 Error prompt	通信连接 Communication connection	其他 Other
计数 Counting		浮锁警示 Floating lock warning	可配置数字I/O Configurable digitalI/O	快速编程 Fast programming
多步拧紧 Multi steps tightening		滑丝警示 Screw slippery warning	数字I/O（输入/输出） digitalI/O (input/output)	密码保护 Password protection
组别循环 Group cycle		拧紧角度警示 Tightening angle warning	开放协议 Development agreement	
记忆组别 Memory group		拧紧扭矩警示 Tightening torque warning	与数据采集系统连接 Connection with data acquisition system	
拧紧结果判定 Tightening result determination			条形码扫描器连接 Bar code scanner connection	
扭矩和角度控制 Torque and angle control				
最终拧紧扭矩控制 Final tightening torque control				
技术参数 Technical parameter	型号 Model	输入电压 Input voltage	重量(g) Weight(g)	尺寸(mm) Dimension(mm)
	SD-X2-8-S	30V	570	150X110X50
	SD-X2-16S-A SD-X2-16L-A	24/48V	650	150X110X50

电源适配器 Power supply



宽电压设计
Wide voltage design
 输出稳定
Output stability
 过载保护
Overload protection

连接线 Connecting line



(3P&5P&8P&16P-L&16P-S&17P)

电源技术参数 Technical parameters of power supply

型号 Model	输出功率 Output power	输出电压 Output voltage	输入电压 Input voltage	额定电流 Rated current	重量(g) Weight (g)	尺寸(mm) Dimension (mm)	输出端子 Output termina
SD- 2448V200W-5P	200W	DC24/48V	AC110V-AC 260V	4A	720	210x80x52	5PIN
SD- 2448V300W-5P	300W	DC24/48V	AC110V-AC 260V	6.3A	740	210x80x52	5PIN
SD- 30V120W-3P	120W	DC30V	AC110V-AC 260V	4A	635	210x80x52	3PIN
SD- 30V200W-3P	200W	DC30V	AC110V-AC 260V	6.3A	700	210x80x52	3PIN



SD-X8-17-S



可匹配工具 Matchable tools



- SD-X8系列控制器完全控制整个拧紧过程,大幅度改善产品质量和优化拧紧流程,可自动识别浮锁、滑牙、扭矩不良、角度不良等拧紧故障。将整个拧紧过程数据储存生成曲线表,提供与拧紧过程相关的重要信息,完善装配过程。

SD-X8 series controller completely controls the whole tightening process, greatly improve product quality and optimize the tightening process, which can automatically identify floating lock, screw slippage, unqualified torque, unqualified angle and other tightening abnormalities. Store datas of the entire tightening process, generate curve tables, provide important information related to the tightening process, and improve the assembly process.

- 可通过任一通信端口与所有系统融合,接入生产管理系统和以太网打破了地域限制,实现远程监控拧紧过程。将条码扫描器与控制器连接,确保数据可追溯性,防止操作员可能存在的错误拧紧,可与生产管理系统进行无障碍连接,全面监测生产过程。

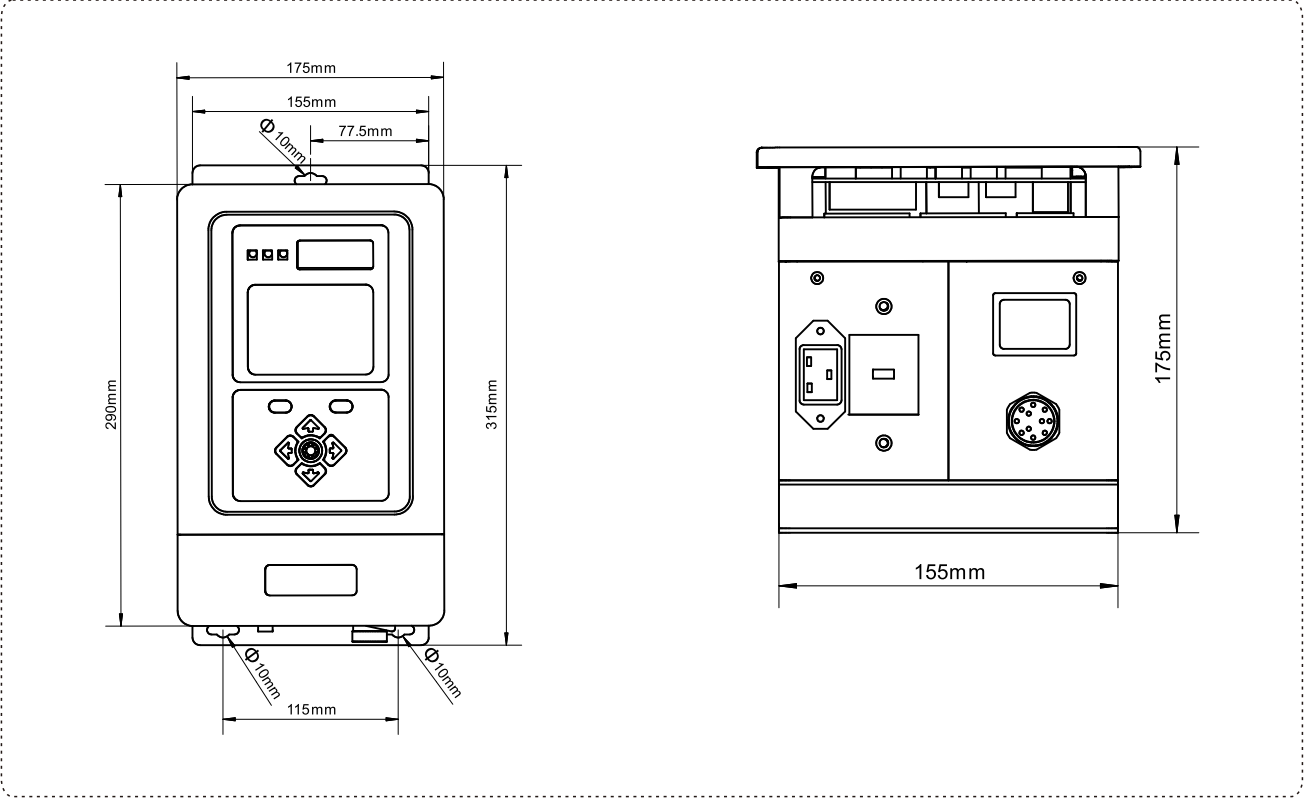
It can be integrated with all systems through any communication port. Access to the production management system and Ethernet breaks the geographical limitations, realizes the remote monitoring of tightening process, connects the barcode scanner with the controller, ensures data traceability, prevents operator's probable error tightening, and can be interconnected with the production management system. Make barrier-free connections and comprehensively monitor the production process.

- 根据不同的拧紧要求,可同时设置多种拧紧数据,将装配时间最小化,不同的拧紧模式在缩短循环时间的同时保证了高质量。为产品创设独一无二的作业顺序,实现无障碍装配。

According to different tightening requirements, multiple tightening parameters can be set at the same time, to minimize the assembly time. Different tightening modes ensure high quality while shortening the cycle time, creating a unique working sequence for the product and achieving barrier-free assembly.

外观尺寸

Physical dimension



控制器主要功能

Main functions of controller

拧紧要素 Tightening elements		错误警示 Error prompt	通信连接 Communication connection	其他 Other
计数 Counting		浮锁警示 Floating lock warning	可配置数字I/O Configurable digital I/O	快速编程 Fast programming
多步拧紧 Multi steps tightening		滑丝警示 Screw slippery warning	数字I/O（输入/输出） digital I/O (input/output)	密码保护 Password protection
组别循环 Group cycle		拧紧角度警示 Tightening angle warning	开放协议 Development agreement	
记忆组别 Memory group		拧紧扭矩警示 Tightening torque warning	与数据采集系统连接 Connection with data acquisition system	
拧紧结果判定 Tightening result determination			条形码扫描器连接 Bar code scanner connection	
扭矩和角度控制 Torque and angle control				
最终拧紧扭矩控制 Final tightening torque control				
技术参数 Technical parameter	型号 Model	输入电压 Input voltage	重量(g) Weight(g)	尺寸(mm) Dimension(mm)
	SD-X8-17-S	220V	5000	315X175X175



可匹配工具 Matchable tools



- SD-X7智能伺服拧紧中枢控制器完全控制整个拧紧过程，大幅度改善产品质量和优化拧紧流程，可自动识别浮锁、滑牙、扭矩不良、角度不良等拧紧故障。将整个拧紧过程数据储存生成曲线表，提供与拧紧过程相关的重要信息，完善装配过程。

SD-X7 intelligent servo tightening hub controller completely controls the entire tightening process, greatly improve product quality and optimize the tightening process, which can automatically identify floating lock, screw slippage, unqualified torque, unqualified angle and other tightening abnormalities. Store datas of the entire tightening process, generate curve tables, provide important information related to the tightening process, and improve the assembly process.

- 可通过任一通信端口与所有系统融合，接入生产管理系统和以太网打破了地域限制，实现远程监控拧紧过程。将条码扫描器与控制器连接，确保数据可追溯性，防止操作员可能存在的错误拧紧，可与生产管理系统进行无障碍连接，全面监测生产过程。

It can be integrated with all systems through any communication port. Access to the production management system and Ethernet breaks the geographical limitations, realizes the remote monitoring of tightening process, connects the barcode scanner with the controller, ensures data traceability, prevents operator's probable error tightening, and can be interconnected with the production management system. Make barrier-free connections and comprehensively monitor the production process.

- 根据不同的拧紧要求，可同时设置多种拧紧数据，将装配时间最小化，不同的拧紧模式在缩短循环时间的同时保证了高质量。为产品创设独一无二的作业顺序，实现无障碍装配。

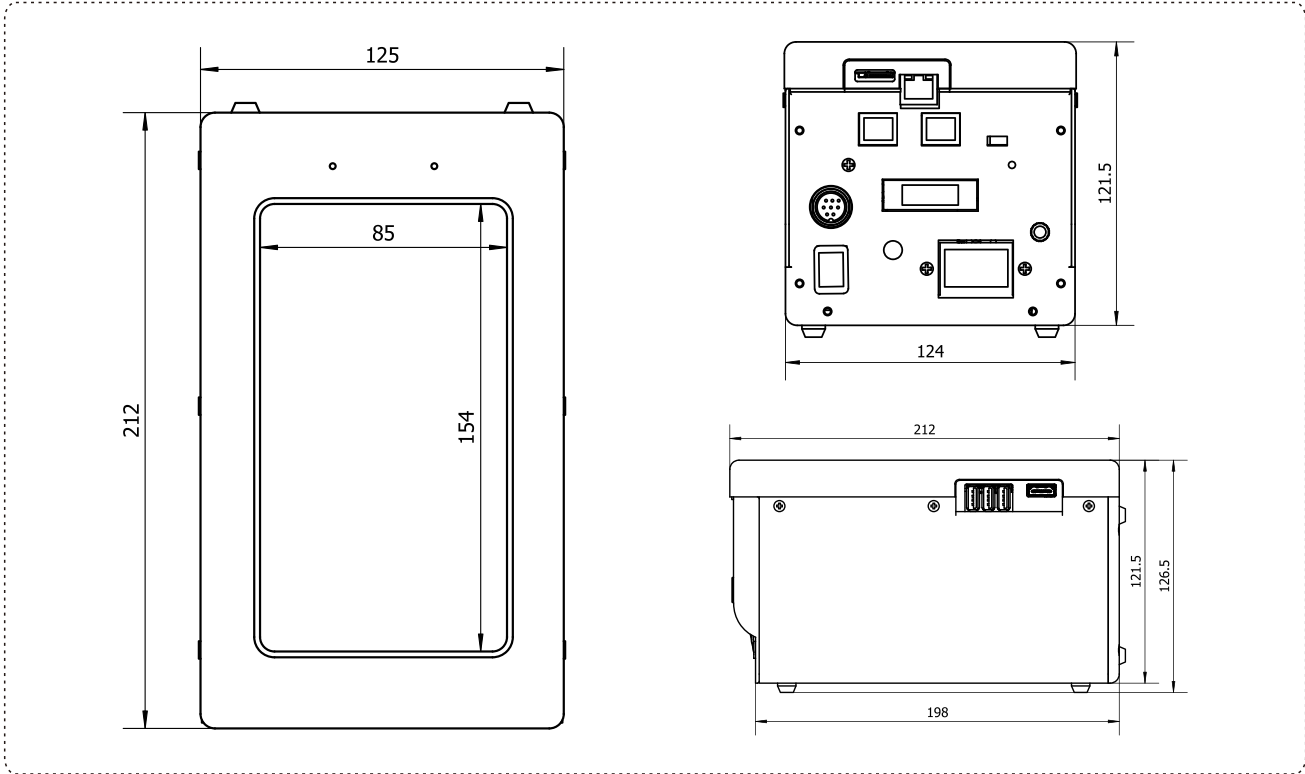
According to different tightening requirements, multiple tightening parameters can be set at the same time, to minimize the assembly time. Different tightening modes ensure high quality while shortening the cycle time, creating a unique working sequence for the product and achieving barrier-free assembly.

智能伺服拧紧中枢控制器

Intelligent Servo Fastening Hub Controller



外观尺寸 Physical dimension



控制器主要功能 Main functions of controller

拧紧要素 Tightening elements		错误警示 Error prompt	通信连接 Communication connection		其他 Other
计数 Counting		浮锁警示 Floating lock warning	开放协议 Development agreement		快速编程 Fast programming
多步拧紧 Multi steps tightening		滑丝警示 Screw slippery warning	与数据采集系统连接 Connection with data acquisition system		密码保护 Password protection
组别循环 Group cycle		拧紧角度警示 Tightening angle warning	条形码扫描器连接 Bar code scanner connection		7寸工业级电容屏 7" industrial grade capacitive screen
记忆组别 Memory group		拧紧扭矩警示 Tightening torque warning	USB、RS232、485、CAN、UpLiNK、WiFi26位IO接口 USB, RS232, 485, CAN, UpLiNK, WiFi26th IO contact		多国语言选择 Multi-language selection
拧紧结果判定 Tightening result determination					500万条数据存储 5 million data storage
扭矩和角度控制 Torque and angle control					
最终拧紧扭矩控制 Final tightening torque control					
技术参数 Technical parameter	型号 Model	输入电压 Input voltage	重量(g) Weight(g)	尺寸(mm) Dimension(mm)	
	SD-X7-8-S	AC110-260V	2000	212X125X126	
	SD-X7-16S-A				
	SD-X7-16L-A				



ESD
可选购
Optionally available

适用电池包及充电座



机型特点 Model feature



伺服电机
Servo Motor



自由编程
Free programming



LED提示灯
LED prompt light



错误提示
Error prompt



锁附参数
Locking parameters



超长续航
Long battery life

技术参数 Technical parameters

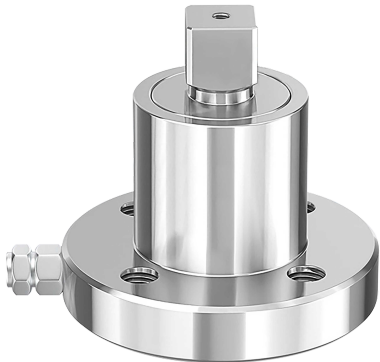
型号Model	扭力范围 Torque Range		空载转速 No load speed(r. p. m)	输入电压 Input voltage	重量 Weight(g)	通讯模式 Com Mode	标准批头 Screw Bit
锂电扳手 Lithium wrench	kgf.cm	N.m					
SD-NC100Li-TSB	3-10	0.3-1	50-1000	30V	650	无线传输/USB	1/4-Hex
SD-NC200Li-TSB	5-20	0.5-2					1/4-Hex
SD-NC350Li-TSB	8-35	0.8-3.5					1/4-Hex
SD-NC500Li-TSB	10-50	1-5	50-600		1/4-Hex		
SD-NC600Li-TSB	10-60	1-6					1/4-Hex
SD-NC1000Li-TSB	20-100	2-10	50-450		1400		1/4-Hex
SD-NC1500Li-TSB	30-150	3-15	50-300				1/4-Hex
SD-NC2500Li-TSB	50-250	5-25	50-180				1/4-Hex
SD-NC4000Li-TSW	90-400	9-40	50-120		1500		3/8-Hex
SD-NC6500Li-TSW	130-650	13-65	50-100				3/8-Hex

可选扳手输出头按需定制
Optional wrench output head on demand

※ 重量不含电池 Weight without battery

分体式扭矩传感器

Discrete Torque Sensor



机型特点 Model feature



高精度
High Accuracy



干扰性强
Highly Disruptive



稳定性强
Excellent stability

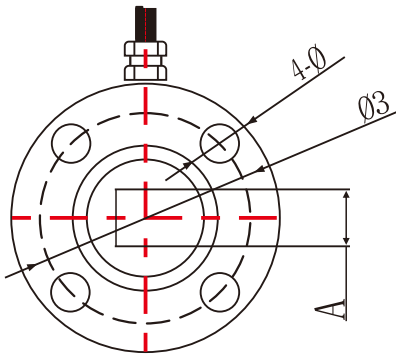
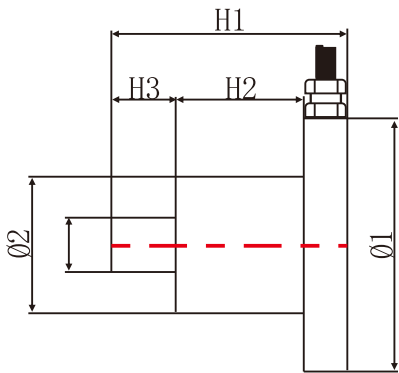


耐高温
Heat Resistant



简易安装
Easy installation

外观尺寸 Physical dimension



量程(N.m) Range(N.m)	A(A×A)	H1	H2	H3	Ø1	Ø2	Ø3	4-Ø
1-200	12.5	55	30	15	59	32	45	6
300-1000	25.4	75	40	24	68	40	55	8.5
1500-3000	25.4	85	44	24	98	56	80	13

技术参数 Technical parameters

型号 Model	输入阻抗 Input Impedance	绝缘阻抗 Insulation impedance	工作温度范围 Operating temperature range	允许过负荷 Allowable overload	综合精度 Combined accuracy	尺寸 Size
SD-TS1 SD-TS100 SD-TS2 SD-TS200 SD-TS3 SD-TS300 SD-TS5 SD-TS500 SD-TS10 SD-TS1000 SD-TS20 SD-TS1500 SD-TS30 SD-TS2000 SD-TS50 SD-TS3000	725±25Ω	≥5000MΩ	-20~+70℃	150%F·S	1%F·S	Ø59×51mm

工业电脑
Industrial Computers

条形码阅读器
BarCode Reader

RS232/ RS485

USB

UPLINK

PLC

RS232/ RS485

COM

CAN

无刷伺服电动螺丝刀控制器
Brushless Servo Electric Screwdriver Controller
SD-X8-17-S

状态指示灯和蜂鸣器
Status Lamp & Buzzer

I/O Port

AC110V-240V

固定式拧紧轴
Fixed tightening shaft

BIG DATA
ANALYTICS
STORAGE
TECHNOLOGIES

固定式拧紧轴 Fixed tightening shaft



- 直柄式拧紧轴，CT-配备有角度和扭矩传感器。
- 加长的弹簧行程76MM和100MM-带有加长弹簧行程的拧紧轴，适用于长度更长的螺栓。
- SD-QTS拧紧轴可使用，法兰安装和插入式安装。不同的轴头长度，(200mm)可在狭窄的工位或零件内也做到灵活应用，再针对长度更长螺栓操作时。弹簧行程可按要求从标准的增加至76或100mm。SD-QTS拧紧轴内置的存储芯片，可存储校正数据和一般的工具和维修数据。拥有ISO认证的正负2.5%精度。软硬连接可达百万次工作周期。
- SD-QTS拧紧轴上的电缆接口经设计用于实现灵活的电缆管理。拧紧轴散牢固的电缆接口和插针设计，可在两个自由度上下进行调整。拧紧轴和控制器之间进行数字通信。
- 热拔插替换电缆或拧紧轴时，无需关闭电源。
- 速度性提升最高可达3000r.p.m。
- 在正常条件下，平均无故障运行的时间，多于500万次拧紧。
- Straight shank type tightening shaft, CT-equipped with angle and torque sensors.
- Extended spring stroke 76MM and 100MM-tightening shaft with extended spring stroke, suitable for longer bolts.
- SD-QTS tightening shaft can be used, flange installation and plug-in installation. Different shaft head lengths (200mm) can be used flexibly in narrow workstations or parts, and when operating with longer-length bolts. The spring stroke can be increased from the standard to 76 or 100mm as required. The SD-QTS tightening shaft has a built-in memory chip that can store calibration data and general tool and maintenance data. It has an ISO certification of plus or minus 2.5% accuracy. Soft and hard connections can reach millions of working cycles.
- The cable interface on the SD-QTS tightening shaft is designed for flexible cable management. The tightening shaft has a robust cable interface and pin design that can be adjusted up or down in two degrees of freedom. Digital communication between the tightening shaft and the controller.
- No need to turn off the power when hot-plugging replacement cables or tightening shafts.
- Speediness increase up to 3000r.p.m.
- Average trouble-free operation under normal conditions, more than 5 million tightenings.

型号 Model	行程 Journey mm	扭矩范围 Torque range		速度 Speed r/min	最小中心距离 Minimum center distance mm	重量 weight		轴头尺寸 Shaft head size in
		Nm	ft lb			kg	lb	
SD-QST34-8CT-T50-L150-H6	50	2-8	1.5-6	3000	34	2	4.4	1/4
SD-QST34-20CT-T50-L150-H10	50	4-20	2.9-14.7	1000	34	2	4.4	3/8
SD-QST42-20CT-T50-L134-H10	50	6-20	4-14	2000	43	3.1	6.9	3/8
SD-QST42-50CT-T50-L134-H13	50	10-50	7-35	700	43	3.8	8.4	1/2
SD-QST50-90CT-T50-L137-H13	50	20-90	15-65	650	51	5.8	12.7	1/2
SD-QST50-150CT-T50-L137-H13	50	30-150	22-110	380	51	5.8	12.8	1/2
SD-QST62-150CT-T50-L152-H13	50	30-150	22-110	450	63	10.2	22.5	1/2
SD-QST62-230CT-T50-L152-H19	50	40-230	29-170	330	63	10.2	22.5	3/4
SD-QST62-350CT-T50-L152-H19	50	50-350	37-258	220	63	10.2	22.5	3/4
SD-QST80-450CT-T50-L146-H19	50	90-450	66-332	260	81	16.7	37	3/4
SD-QST80-600CT-T50-L146-H19	50	120-600	88-442	200	81	17	37	3/4
SD-QST90-750CT-T50-L152-H25	50	150-750	111-553	150	91	25	55	1
SD-QST90-1000CT-T50-L152-H25	50	200-1000	147-737	130	91	26	57	1
SD-QST95-1750CT-T50-L149-H38	50	350-1750	258-1291	60	96	28	61.7	1 1/2
加长的弹簧行程76mm和100mm Extended spring stroke 76mm and 100mm								
SD-QST42 20CT-T76-L189-H10	76	6-20	4-14	2000	43	3.1	6.9	3/8
SD-QST42-50CT-T76-L189-H13	76	10-50	7-35	700	43	3.8	8.4	1/2
SD-QST50-90CT-T76-L200-H13	76	20-90	15-65	650	51	5.8	12.7	1/2
SD-QST50-150CT-T76-L200-H13	76	30-150	22-110	380	51	5.8	12.8	1/2
SD-QST62 230CT-T76-L200-H19	76	40-230	29-170	330	63	10.2	22.5	3/4
SD-QST62-350CT-T76-L200-H19	76	50-350	37-258	220	63	10.2	22.5	3/4
SD-QST80-450CT-T76-L214-H19	76	90-450	66-332	260	81	17	37	3/4
SD-QST80-600CT-T76-L214-H19	76	120-600	88-442	200	81	17	37	3/4
SD-QST90-750CT-T76-L176-H25	76	150-750	111-553	150	63	29	64	1
SD-QST90-1000CT-T76-L176-H25	76	200-1000	147-737	130	91	26	57	1
SD-QST42-50CT-T100-L191-H13	100	10-50	7-35	700	43	3.8	8.4	1/2
SD-QST50-150CT-T100-L186-H13	100	30-150	22-110	380	51	5.8	12.8	1/2

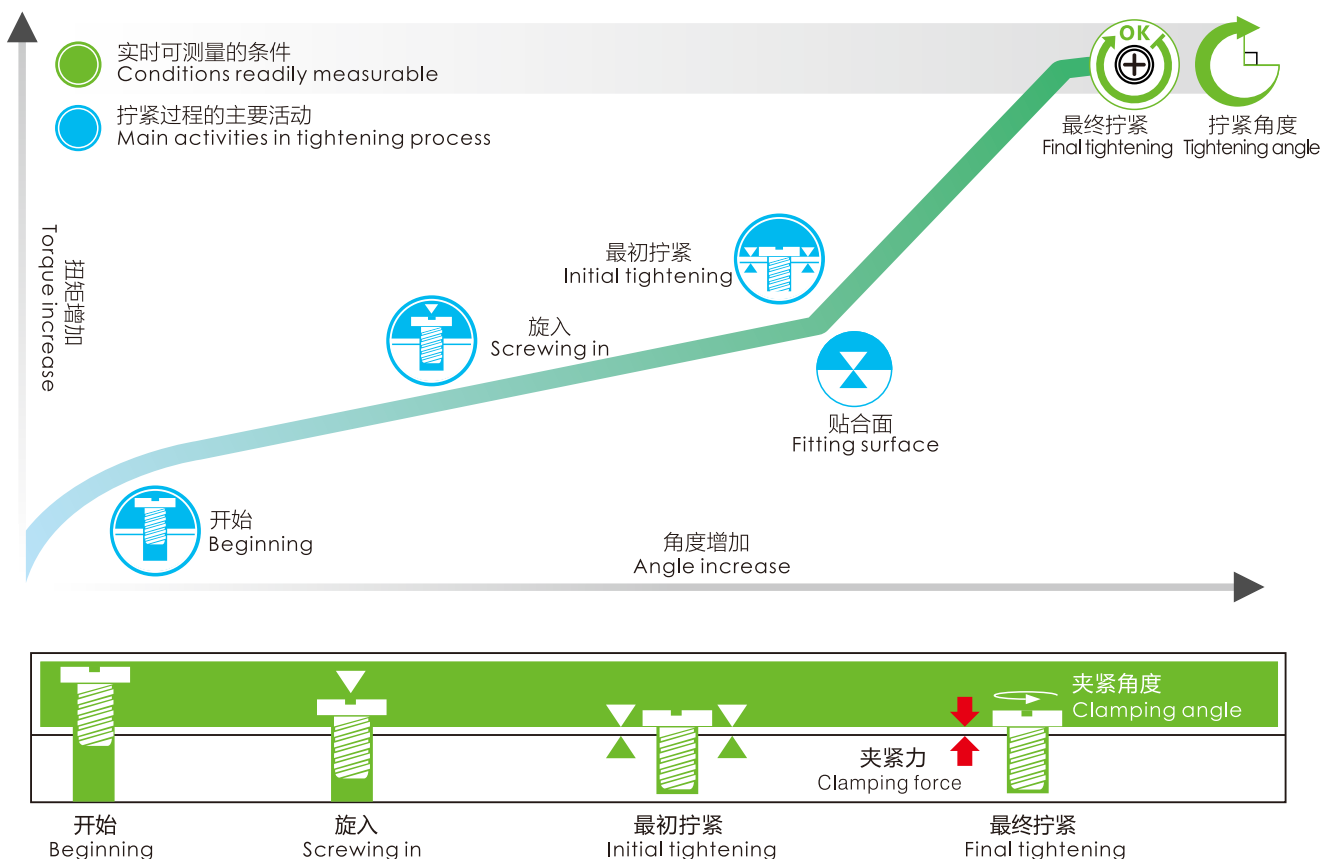
在装配过程中拧紧环节是必不可少的，而拧紧的质量直接影响产品的合格率与品质。拧紧过程在整个装配作业中成了我们最为注重的环节，为了让复杂的拧紧过程更加直观，我们将其优化为四个阶段：开始（入牙）、旋入、最初拧紧、最终拧紧。开始阶段将螺丝轻轻对准螺纹接口，旋入阶段螺丝会快速旋入螺纹，提高效益，最初拧紧阶段螺丝旋入到贴合面后施加初始扭矩，最终拧紧阶段将螺丝拧紧到最终设定的目标扭矩。在整个拧紧过程中包括实时旋转角度、实时扭矩、最终拧紧扭矩及拧紧角度等重要因素都是处于在控制和监测之中。

The tightening process is essential during the assembly process, and the tightening quality directly affects the qualified rate and quality of the product. The tightening process has become our most important part of the assembly process, making the complex tightening process more intuitive.

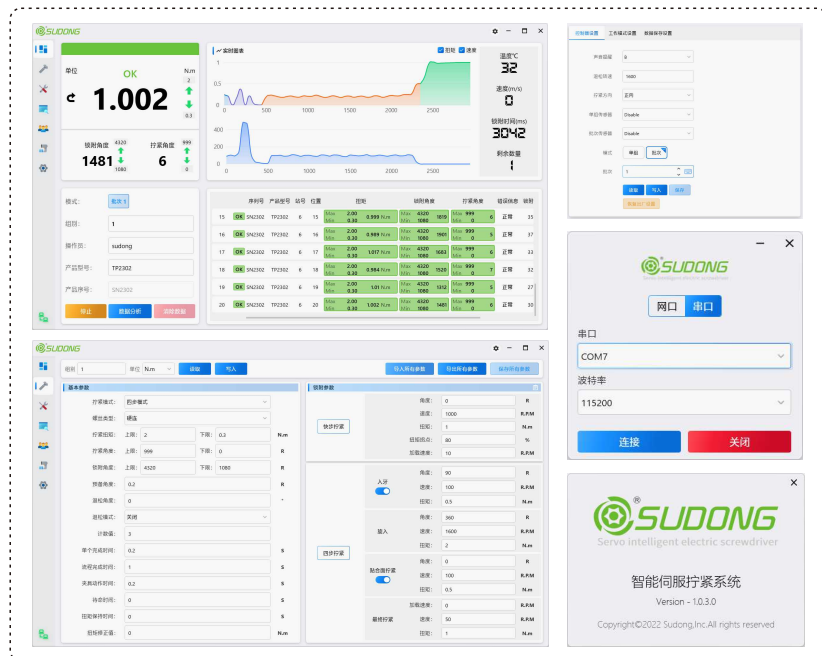
We optimize it into four stages: beginning, screwing in, initial tightening, and final tightening. At the beginning stage, the screw is gently aligned with the thread interface, and the screw will be screwed into the thread quickly to improve the efficiency during the screwing in stage. In initial tightening stage, the screw is screwed into the fitting surface to apply the initial torque, and in the final tightening stage, the screw is tightened at the final set target torque. Important factors including real-time rotation angle, real-time torque and final tightening torque and angle are all under control and monitoring throughout the tightening process.

我们可以采取一些措施以完善拧紧过程，使我们在发生如：滑丝、浮锁、斜打等故障时及时中止拧紧作业。若想实现无故障拧紧，所有角度和扭矩参数的设置应使最终拧紧扭矩得到真正的控制，智能的拧紧工具是所有需要高质量拧紧产品的最佳选择。

We can take some auxiliary measures to improve the tightening process, so that we can terminate the tightening operation in time when there are faults such as screw slipping, floating lock, inclined fastening, etc. For trouble-free tightening, all angle and torque parameter settings are truly controlled by the tightening torque. Smart tightening tools are the best choice for all products that require high quality tightening.



数据采集系统主要操作界面 Main operating interface of data acquisition system



- 储存详细的拧紧结果
Storing detailed tightening results
- 结果-数据储存
Result - data storage
- 曲线表-数据储存
Curve - data storage
- 通过USB下载结果
Download results via USB
- 通过USB下载曲线表
Download the curve table via USB
- 实时曲线分析
Real time curve analysis
- 拧紧结果统计合格率
Tightening result statistical qualified rate
- 使用以太网进行配置
Configuring with Ethernet

通过PC端与生产管理系统连接，设置专属的拧紧程序，改善产品质量，提高生产效率。可以在系统中调整旋入角度、速度和扭矩，在需要时轻易更改设置。

Through the PC end and the production management system, set up exclusive tightening program to improve product quality, improve production efficiency, can adjust the angle in the system, speed and torque, settings change is easily made when needed.

在有作业先后顺序的要求时，可以在多组连续自由调整作业顺序，系统将自动对应所设置的拧紧程序，指示操作员拧紧对应的螺丝。以保证无故障高产量的拧紧装配。

When there is a requirement for the operations sequence, the order of operations can be adjusted freely in batch processing. The system will automatically respond to the set tightening procedure accordingly, instructing the operator to tighten the corresponding screw, so it will ensure trouble-free, high production tightening assembly.

通过添加条码或手工输入拧紧代码，从而方便激活作业流程和拧紧程序，并将重要的拧紧数据进行储存，生成曲线表深度分析拧紧过程。以获得准确、可靠的信息，更直观地体现生产过程中可能潜在的问题，便于做出对应的调整，让拧紧过程更加顺畅，提高效益。分析拧紧结果，了解拧紧过程，获取重要的拧紧数据，保证拧紧过程的可追溯性，可在统计的数据中任意查看当前或历史拧紧结果。

Enter the tightening code by adding a bar code or by hand. This makes it easy to activate the workflow and tightening procedures, store important tightening data, generate curve tables, and deeply analyze the tightening process to obtain accurate and reliable information, which more intuitively reflects potential problems in the production process and easy to make corresponding adjustments. The adjustment makes the tightening process smoother, improves the efficiency, analyzes the tightening results, and understands the tightening process. Obtaining important tightening data is to ensure traceability of the tightening process, and view current or historical tightening results in any statistical data.

控制器及数据采集软件 Controller and Data Acquisition Software

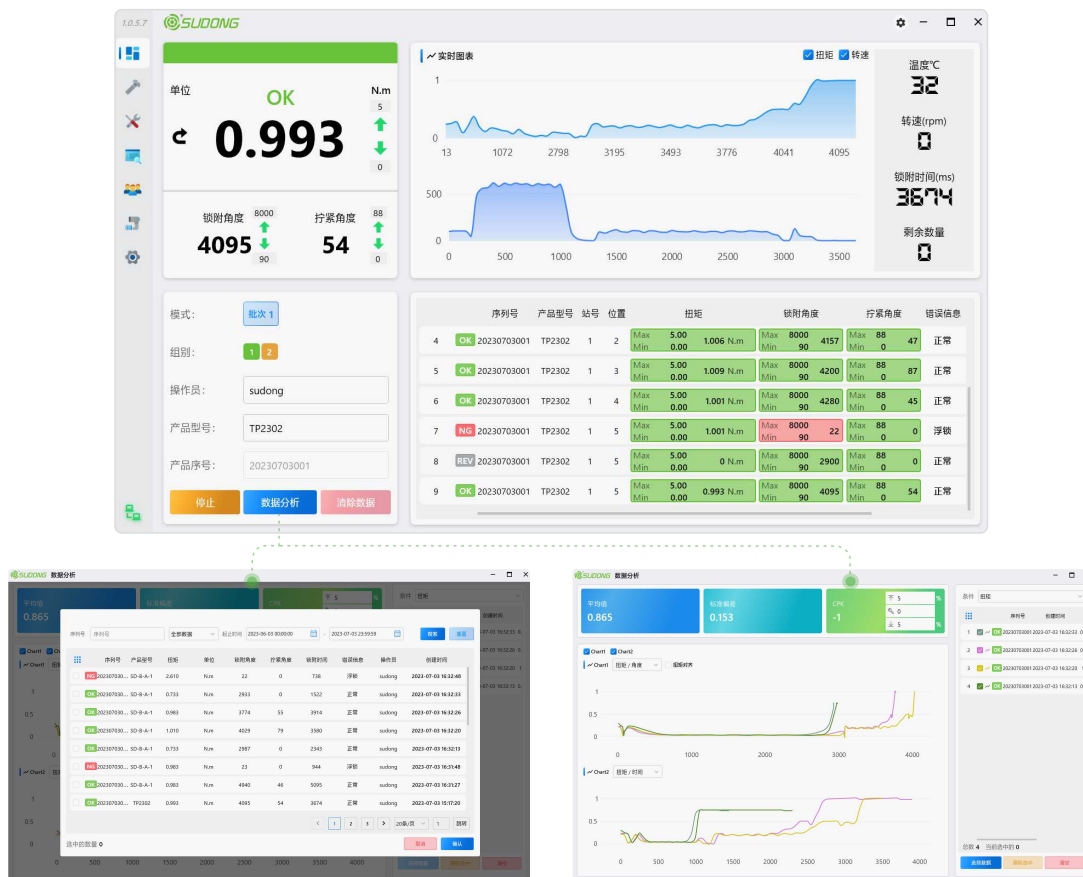


单设备模式 Single Device Mode



打开【软件启动页面】-点击【单设备】模式进入，切换通讯方式，可选【网口】或者【串口】，点击【连接】进入软件主页面。

Open [software startup page], click [single device] mode to enter, switch the communication mode, optional [network port] or [serial port], click [connect] to enter the main page of the software.

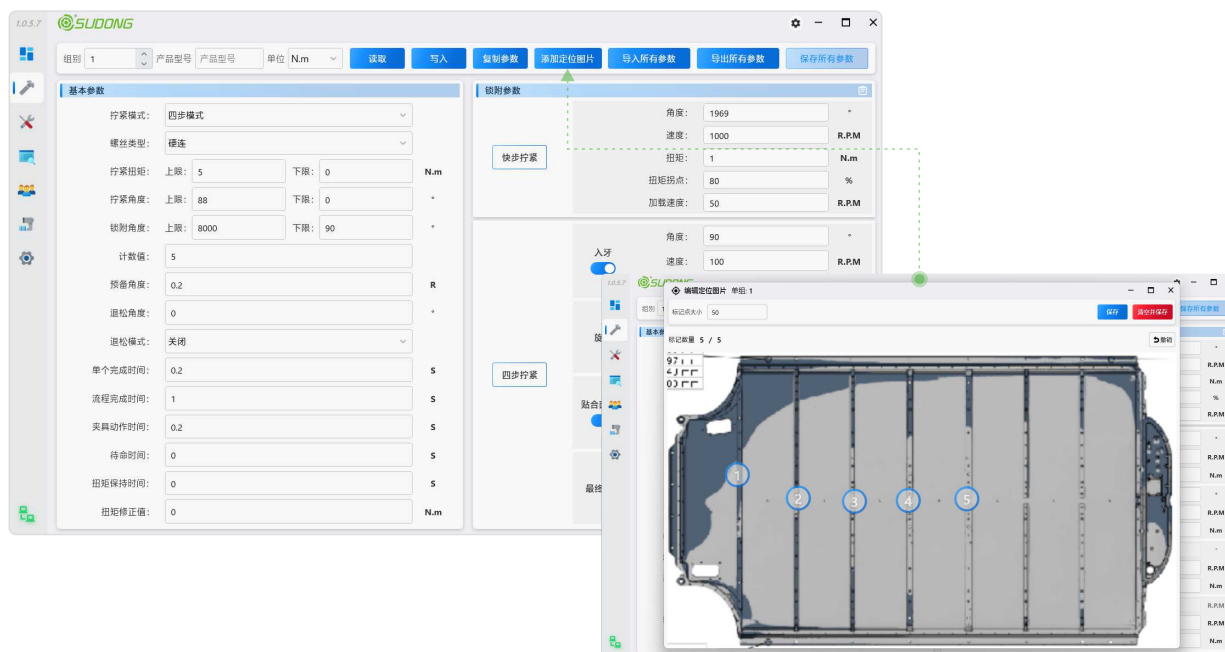


点击【开始】-进入拧紧状态，电批运行可显示实时数据，分析拧紧数据，选择【数据分析】按钮，进入数据分析功能界面。

Click [Start] to enter the tightening state, Batch operation with real-time data display, Analyze tightening data, select [Data Analysis]. Access the Data Analysis function screen.

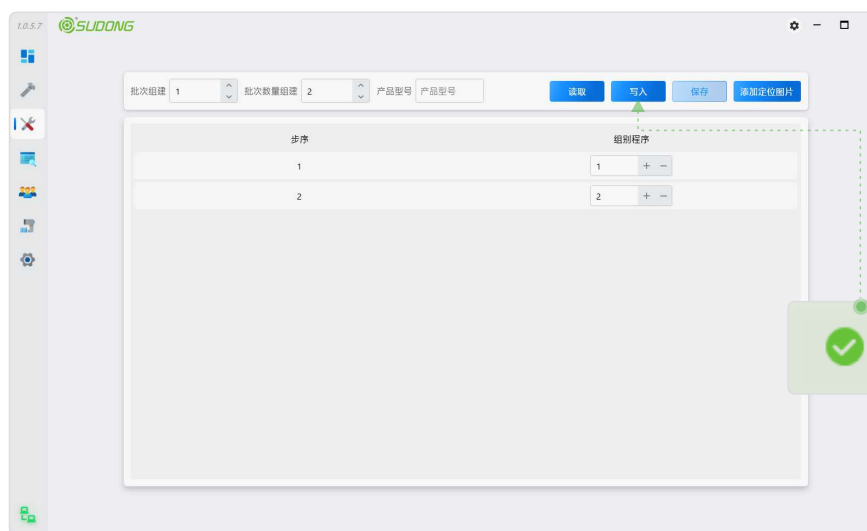
数据采集系统功能简介

Data Acquisition System Function Introduction



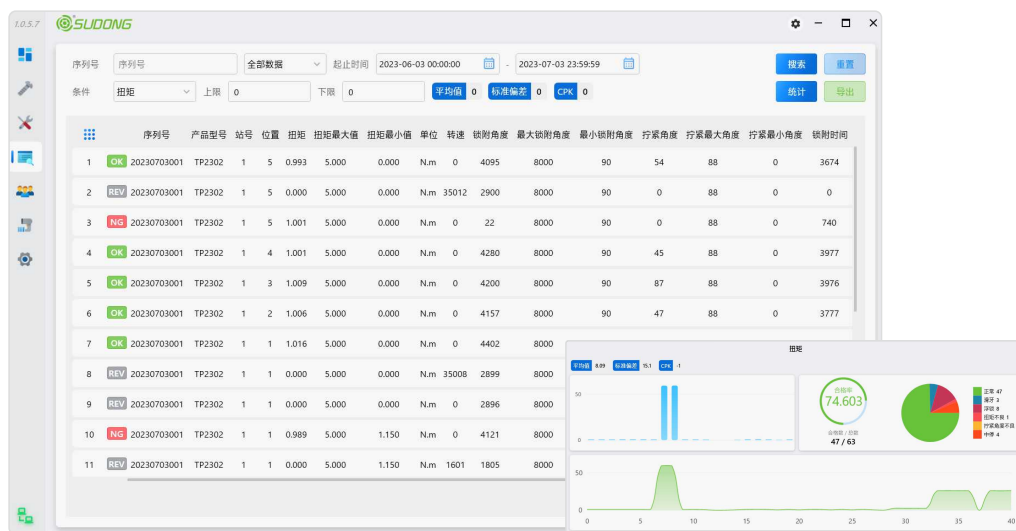
点击【单组拧紧】按钮，进入单组拧紧设置界面，可以设置组别、单位、添加定位图片、导入/导出所有数据、保存数据、基本参数和锁附参数。【添加定位图片】可标记螺丝数量，标记定位是打完成一颗自动跳转下一颗螺丝。

Click the button [single group tightening] to enter the single group tightening setting interface, you can set the group, unit, add positioning pictures, import/export all data, save the data, basic parameters and lock attached parameters. [Add positioning picture] The number of screws can be marked, and the marking of positioning is automatically jumping to the next screw after finishing one.



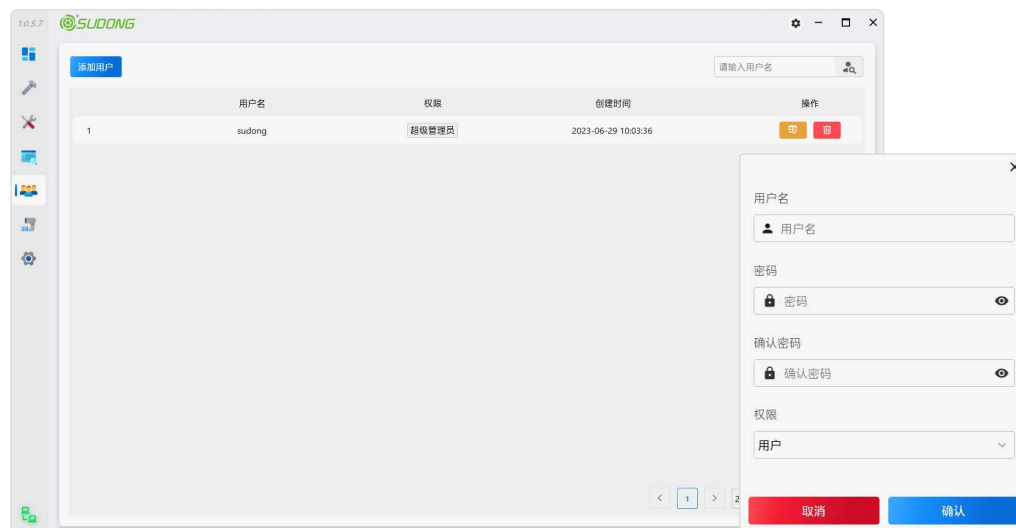
点击【批次拧紧】按钮，进行批次拧紧设置，对组别1进行设置，数量设置为2，对每一步序进行相应的程序指定。点击【读取】按钮可以读取扭力批控制器设置数值，点击【写入】按钮将对设置的参数写入扭力批控制器，上方会弹出写入成功，点击【保存】按钮，进行参数保存。（具体参数定义及注意事项参照硬件说明书）。

Click [batch tightening] button, for batch tightening settings, set the group 1, the number is set to 2, for each step of the sequence of the corresponding program designation. Click [Read] button to read the torque batch controller settings values, click [Write] button to write the set parameters to the torque batch controller, A Write Success pop-up will appear above, click [Save] button to save the parameters. (Specific parameter definitions and notes refer to the hardware manual).



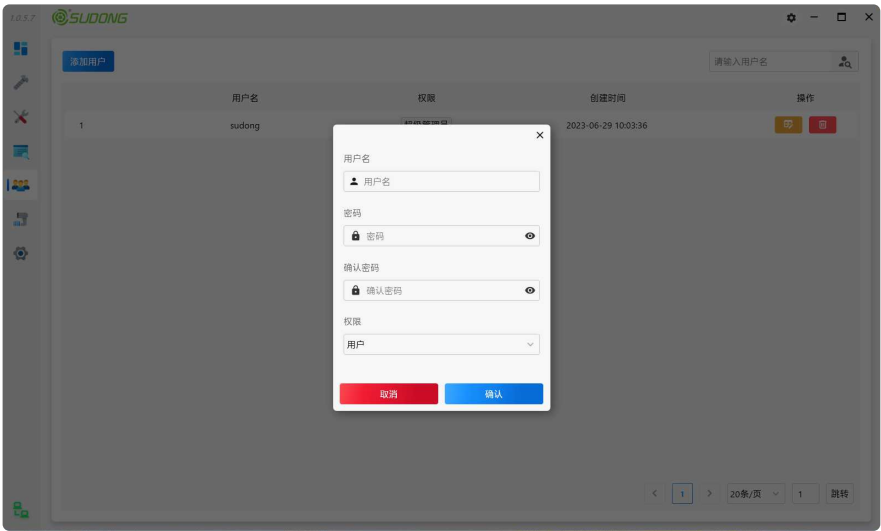
点击【数据查询】按钮，进入数据查询界面，输入要查询的产品序列号，设置查询的开始时间和结束时间、上限、下限，可选择需要统计的条件参数，可选择Torque/ LockAngle/ TightenAngle，点击【搜索】按钮，进行数据查询，点击数据查询的结果，右键可以进行数据分析。点击【统计】按钮，可对数据进行统计，将统计数据以柱状图，饼图，曲线方式显示。

Click [Data Query] button to enter the data query interface, enter the serial number of the product to be queried, set the start time and end time of the query, the upper limit, the lower limit, you can select the parameters of the conditions that need to be statistically selected, you can choose to select the Torque/ LockAngle/ TightenAngle, click [Search] button to query the data, and click on the results of the data query. The right button can be used to analyze the data. Click the [Statistics] button to analyze the data, and display the statistics in the form of bar charts, pie charts, and curves.



点击【用户管理】按钮，进入用户管理功能界面，点击【添加用户】按钮，弹出用户名、密码、权限设置对话框，输入用户名，点击查询按钮软件会自动列出筛选后的用户，如果不输入用户名，直接点击查询，软件则会查询所有的用户。点击【更新用户】按钮，弹出用户信息更新对话框，点击【删除用户】按钮，可以删除想要删除的用户信息。

Click the [User Management] button to enter the user management function interface, click the [Add User] button to bring up the dialog box of user name, password and permission settings, enter the user name, click the query button and the software will automatically list the filtered users, if you don't enter the user name and click the query button directly, the software will query all the users. Click [Update Users] button to bring up the dialog box for updating user information, and click [Delete Users] button to delete the user information you want to delete.



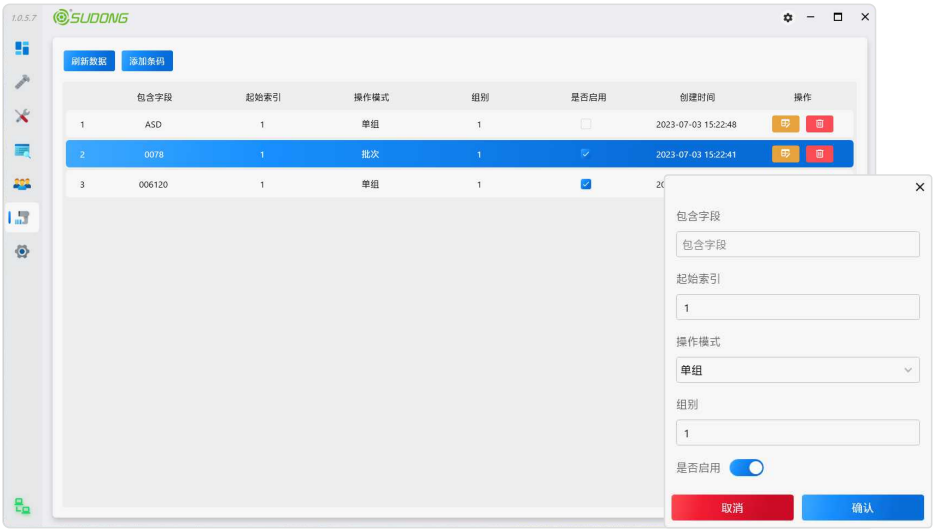
❗ 密码不符合规则！只能使用字母、数字、下划线，6-20位！

添加成功

用户名	权限	创建时间
xwang	Admin	2022-09-01 13:34:05

注意，在新用户设置中，输入用户名和密码要符合系统要求，否则会弹出不符合规则的提示信息，需要重新输入。如果添加成功，则会弹出添加成功的提示信息，并且添加进用户列表中。

Note that, in the new user settings, enter the user name and password to comply with the system requirements, otherwise it will pop up a message that does not comply with the rules, and you need to re-enter it. If add successfully, it will pop up a prompt message of add successfully, and add into the user list.

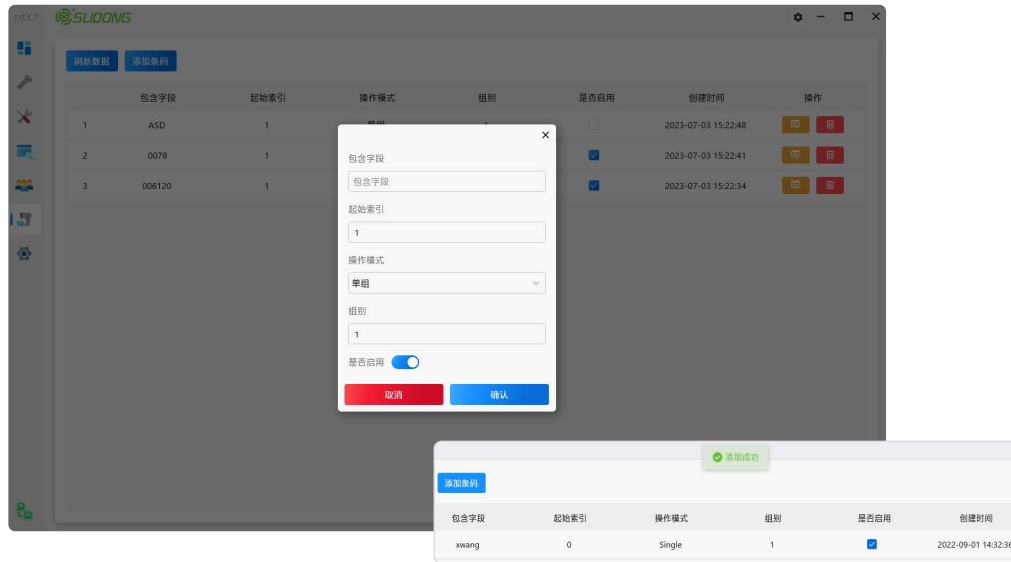


点击【扫码管理】按钮，进入条码管理功能界面，软件可通过本界面进行扫描条码的增加、删除、保存、取消等功能。

【刷新数据】按钮，点击后刷新页面数据。【添加条码】按钮，点击后弹出添加条码弹窗。

Click the [Barcode management] button to enter the barcode management function interface, the software can add, delete, save, cancel and other functions of the scanned barcode through this interface.

[Refresh Data] button, click it to refresh the page data. [Add Barcode] button, Click to bring up the Add Barcode popup.



在添加条码设置中，输入包含字段，起始索引，选择操作模式 (single(单组)/Batch(批次))，输入组别，选择是否启用，然后点击“确认”按钮对新添加的条码信息进行保存。如果添加成功，会弹出添加成功提示信息。并且添加进条码列表中。

In Add Barcode Setting, enter the Include field, Start Index, select the operation mode (single/Group), enter the group, select whether to enable or disable, and then click the Confirm button to save the newly added barcode information. If the barcode is successfully added, a pop-up message will be displayed. And it will be added into the barcode list.



点击【系统设置】按钮，进入设置功能界面，设置分为控制器设置、工作模式设置、系统设置三大模块。

Click the [System Setup] button to enter the setup function interface. Setup is divided into three modules: controller setup, working mode setup, and system setup.

点击【控制器设置】按钮，可对声音提醒、退松转速、拧紧方向、单组传感器、批次传感器、模式、批次进行参数设置。【读取】、【写入】、【保存】分别对应功能读取控制器数据、写入控制器数据、保存数据。【恢复出厂设置】是将控制器恢复成出厂状态。

Click the [Controller Setting] button to set the parameters for Sound Alert, Unwind RPM, Tightening Direction, Single Group Sensor, Batch Sensor, Mode, and Batch. [Read], [Write], [Save] correspond to the function to read controller data, write controller data, and save data respectively. [Restore Factory Settings] is to restore the controller to the factory state.

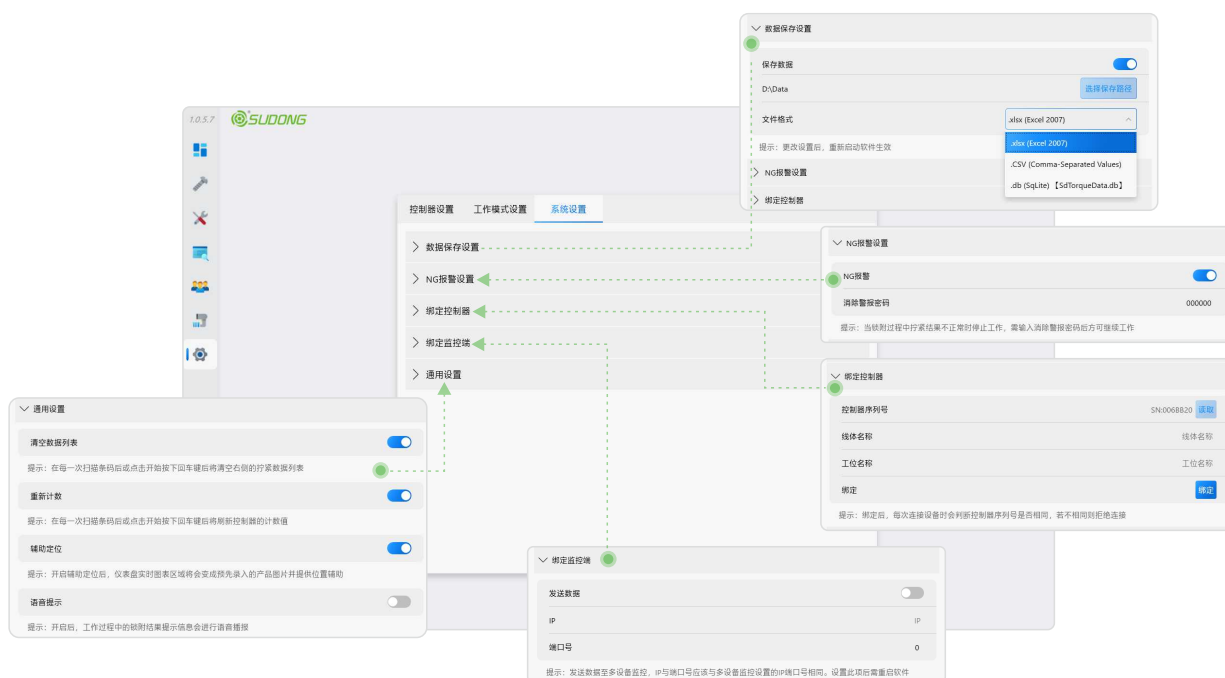
数据采集系统功能简介

Data Acquisition System Function Introduction



点击【工作模式设置】，可设置工作模式，【自定义扫码模式】根据自定义的扫码规则来调用对应的组别或批次参数来拧紧螺丝。【手动模式】每拧完一个批次或者组别，手动输入产品序列号。【扫描模式】通过扫描枪扫描产品条码进行工作。【自动模式】持续的拧紧螺丝，不需要任何操作。

Click [Working Mode Setting] to set the working mode, [Customized Code Sweeping Mode] according to the customized code sweeping rules to call the corresponding group or batch parameters to tighten the screws. [Manual Mode] Enter the serial number of the product manually after screwing each batch or group. [Scanning mode] Work by scanning the product barcode with scanning gun. [Automatic mode] Continuous tightening of screws without any manipulation.



点击【系统设置】进入设置功能界面，【数据保存设置】对数据进行保存，可选择保存路径和文件格式。【NG报警设置】当锁附过程操作错误会发出声响警示。【绑定控制器】、【绑定监控器】、【通用设置】每个参数的功能开启后，则设置功能生效。

Click [System Settings] to enter the setting function interface, [Data Save Settings] to save the data, you can select the save path and file format. [NG Alarm Setting] When the lock attachment process is operated incorrectly, an audible alarm will be issued. [Binding Controller], [Binding Monitor], [General Setting] When the function of each parameter is turned on, the setting function takes effect.

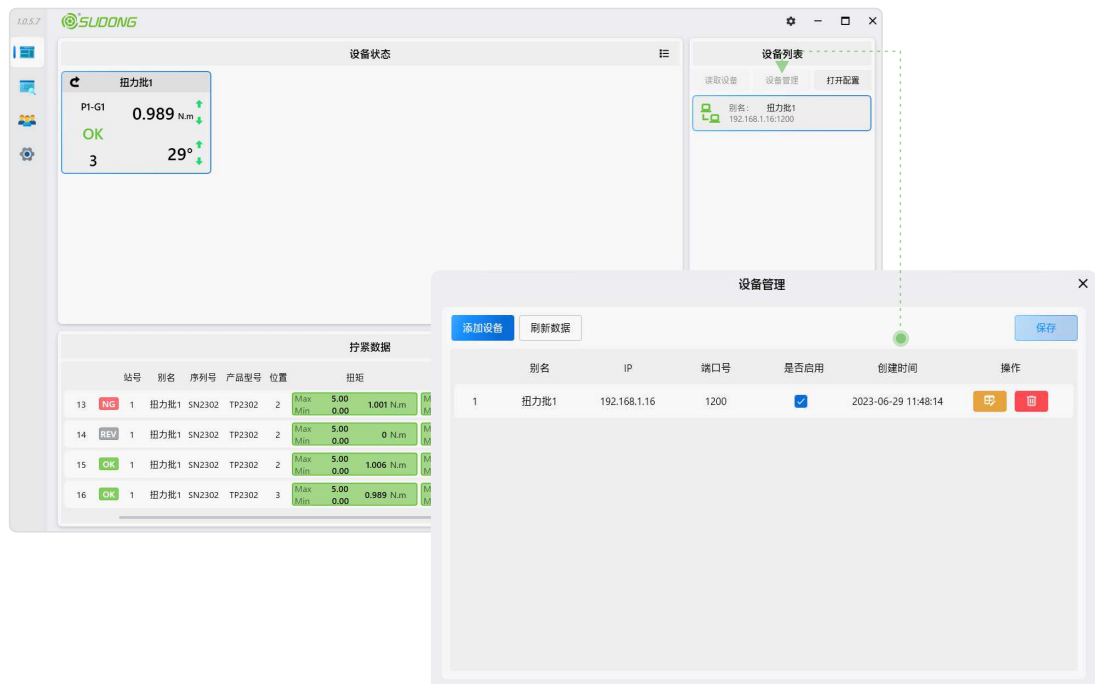
多设备模式 Multi-device mode



打开【软件启动页面】-点击【多设备】模式进入。

Open [software startup page] - click [multi-device] mode to enter.

01 控制台 Consoles

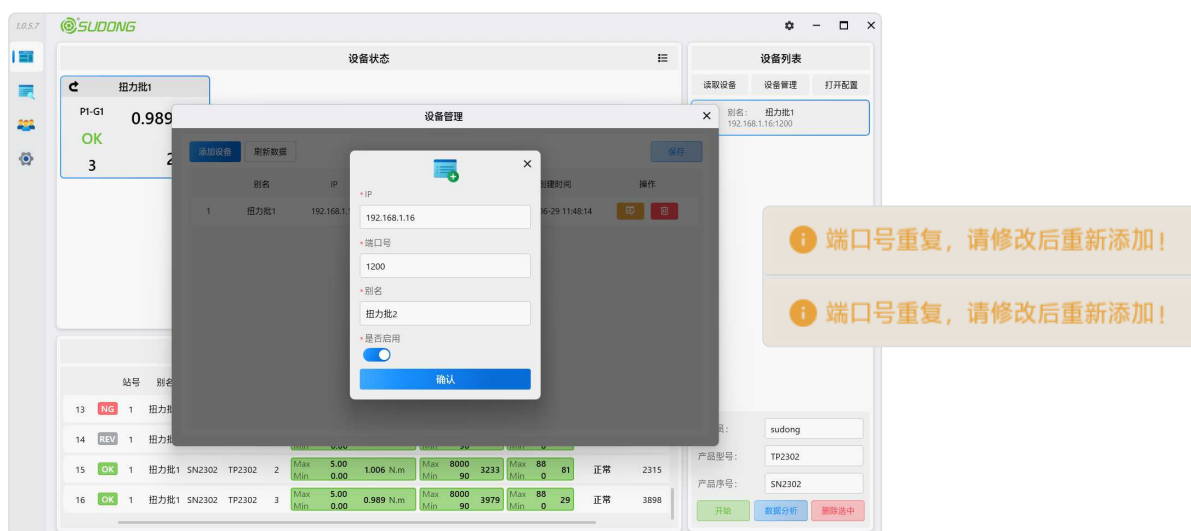


点击【设备管理】按钮，弹出设备管理窗口，【添加设备】弹出添加设备窗口。【刷新数据】刷新页面数据，未保存的数据将会丢失。【保存】添加完设备后，点击保存设备列表数据【修改】按钮，弹出修改界面。【删除】按钮，删除当前数据。

Click the [Device Management] button to bring up the Device Management window and [Add Device] to bring up the Add Device window. [Refresh Data] Refresh the page data, unsaved data will be lost. [Save] After adding devices, click Save Device List Data [Modify] button to bring up the Modify screen. [Delete] button to delete the current data.

数据采集系统功能简介

Data Acquisition System Function Introduction

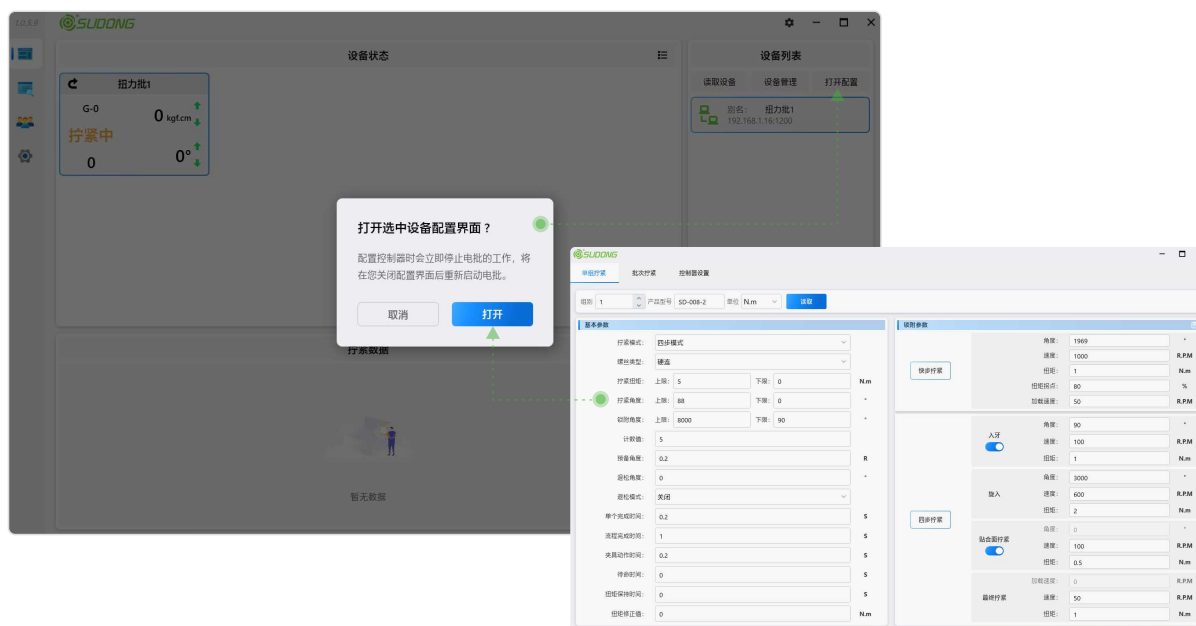


点击【添加设备】，输入IP、端口号、别名，选择是否启用，点击确认后添加进入设备列表中。（错误提示：同一IP地址下端口号不能重复。别名唯一不能重复。）

Click [Add Device], enter IP, port number, alias, choose whether to enable it or not, click Confirm to add it into the device list. (Error message: Port number cannot be repeated under the same IP address. Alias unique cannot be repeated.)

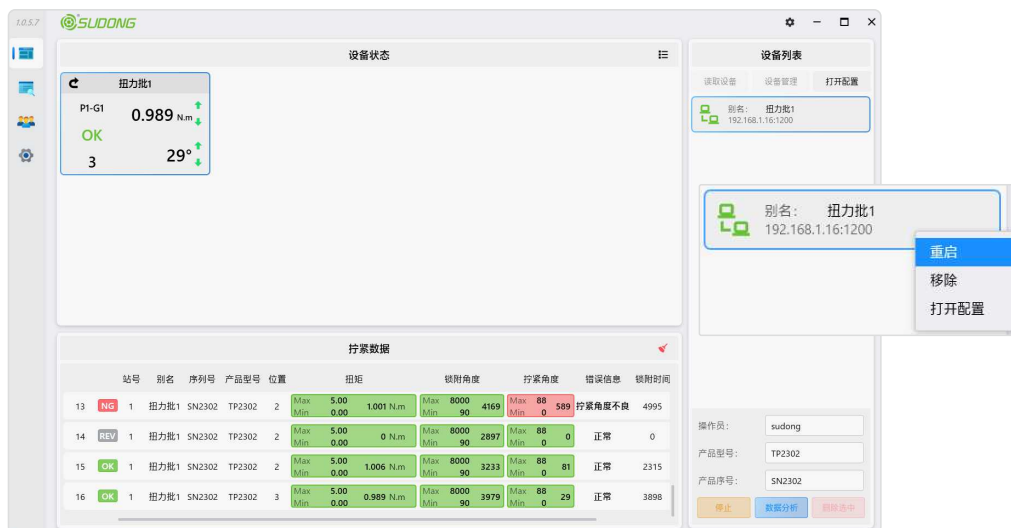
设备信息更新页面，可以对当前在表格中选中的设备进行重新进行更新。

The Device Information Update page allows you to re-update the device currently selected in the table.



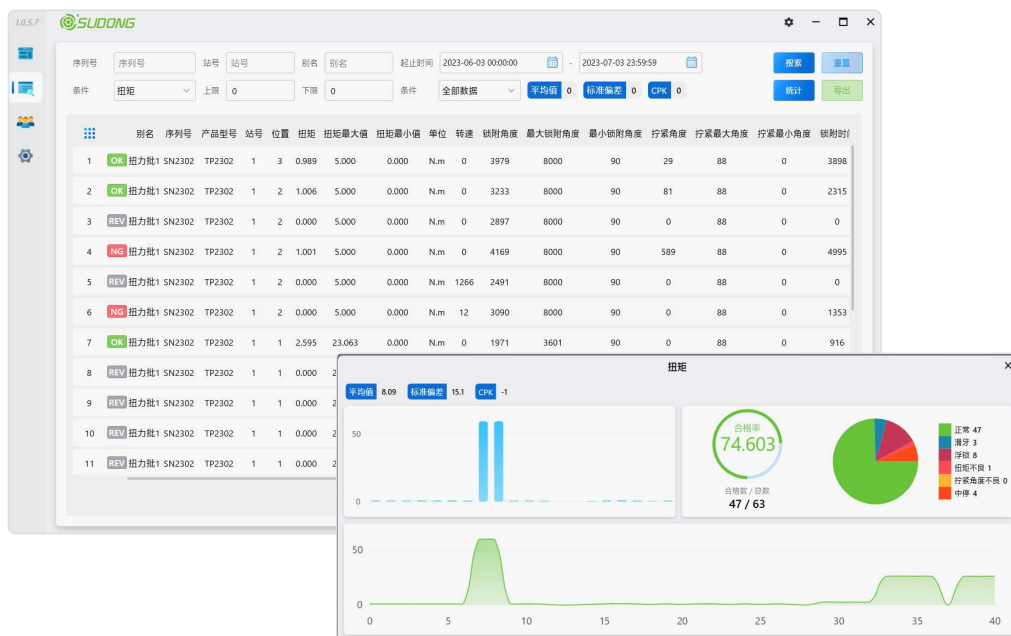
选中右侧某一设备后点击，【打开配置】可以配置当前控制器的拧紧参数。点击【打开】打开配置界面，配置方式与单设备相同，点击【单组拧紧】按钮，进入单组拧紧设置界面，可以设置组别、产品型号、单位、基本参数和锁附参数。

Select a device on the right and click, [Open Configuration] to configure the tightening parameters of the current controller. Click [Open] to open the configuration interface, Configuration is the same as single device, click [single group tightening] button to enter the single group tightening setup interface, you can set the group, product model, unit, basic parameters and lock attached parameters.



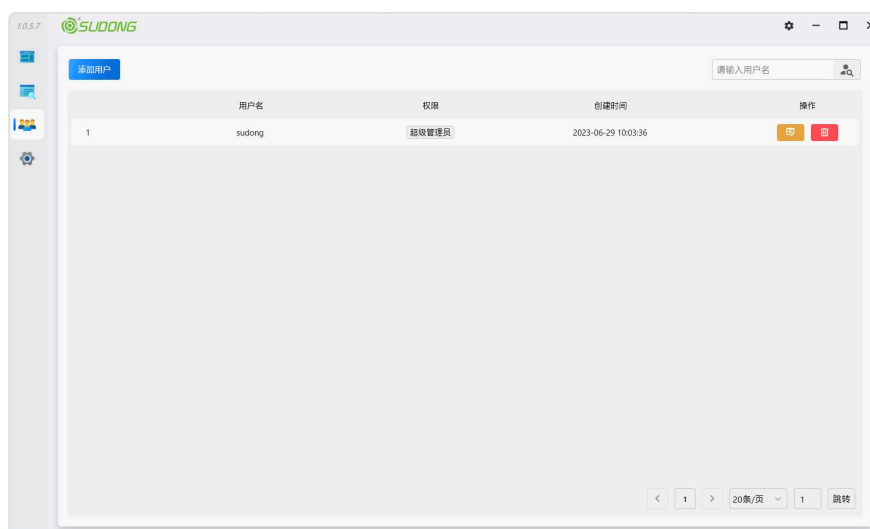
设备状态默认展示为数据，点击切换按钮，可切换为详细图标模式。在设备列表中，点击【读取设备】按钮后展示在设备管理中配置的设备，在某一设备右键即可弹出功能菜单。

The device status is displayed as data by default, click the switch button to switch to the detailed icon mode. In the device list, click the [Read Device] button to display the devices configured in the device management, and right-click on a device to bring up the function menu.



点击【数据查询】按钮，进入数据查询界面，输入要查询的产品序列号、站号、产品别名，设置查询的开始时间和结束时间、上限、下限，选择需要统计的条件参数，可选择Torque/LockAngle/TightenAngle，点击【搜索】按钮进行数据查询，点击数据查询的结果，点击【统计】按钮，可对数据进行统计，将统计数据以柱状图，饼图，曲线方式显示。

Click [Data Query] button to enter the data query interface, enter the serial number of the product to be queried, station number, product alias, set the start time and end time of the query, the upper limit, the lower limit, select the parameters of the conditions that need to be statistically, you can choose the Torque/LockAngle/TightenAngle, click the [Search] button to perform a data query, click on the results of the data query, click on the [Statistical] button, you can do the statistics of the data, and the statistical data will be displayed in the form of bar graphs, pie charts, and curves.



点击【用户管理】按钮，进入用户管理功能界面，点击【添加用户】按钮，弹出用户名、密码、权限设置对话框，输入用户名，点击查询按钮软件会自动列出筛选后的用户，如果不输入用户名，直接点击查询，软件则会查询所有的用户。点击【更新用户】按钮，弹出用户信息更新对话框，点击【删除用户】按钮，可以删除想要删除的用户信息。

Click the [User Management] button to enter the user management function interface, click the [Add User] button to bring up the dialog box of user name, password and permission settings, enter the user name, click the query button and the software will automatically list the filtered users, if you don't enter the user name and click the query button directly, the software will query all the users. Click [Update Users] button to bring up the dialog box for updating user information, and click [Delete Users] button to delete the user information you want to delete.



点击【系统设置】按钮进入，【数据保存设置】对数据进行保存，可选择存储路径和文件格式。(提示：更改设置后，重新启动软件生效。)

Click the (System Settings) button to enter, [Data Saving Settings] to save the data, you can select the storage path and file format. (Tip: After changing the settings, restart the software to take effect.)

点击【通用设置】，可开启或关闭自动机模式，若【自动机模式】开启，启动软件时系统会自动读取设备管理中配置好的设备，系统将自动接收扫码枪的条码，并在扫码后解锁设备，完成后锁住设备，开启或关闭自动机模式，将在重启后生效。

Click [General Settings] to enable or disable the automation mode, If [Automation Mode] is on, when you start the software, the system will automatically read the configured devices in the device management, the system will automatically receive the barcode from the scanning gun and unlock the device after scanning the code, and then lock the device when finished, enable or disable the automation mode, it will take effect after reboot.

多设备监控模式 Multi-Device Surveillance



打开【软件启动页面】-点击【多设备监控】模式进入。

Open [software startup page] - click [Multi-Device Surveillance] mode to enter.

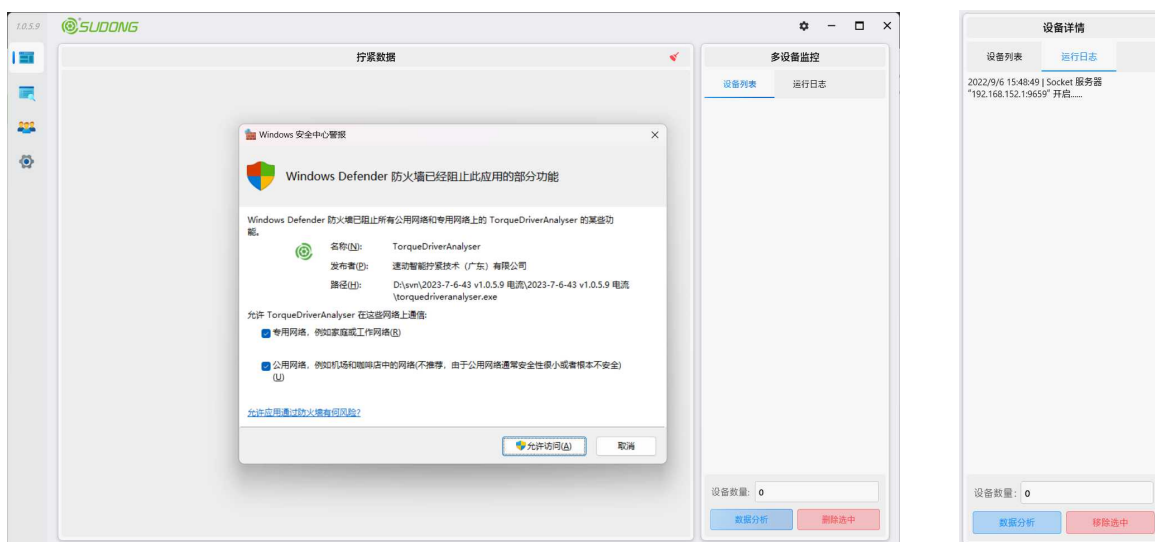


首次进入监控端需配置监控端IP和端口号（端口号默认为9659），输入完成后，点击保存进入主页面。

The first time you enter the monitoring terminal, you need to configure the IP and port number of the monitoring terminal (the port number is 9659 by default), after you finish the input, click Save to enter the main page.

若弹出防火墙警报请点击允许访问。

If the wall alert pops up click on Allow Access.



勾选 专用网络和公用网络，点击允许访问。点击运行日志可查看当前监控软件运行状况。

Select Private Network and Public Network and click Allow Access. Click Run Log to view the current status of the monitoring software.



图1



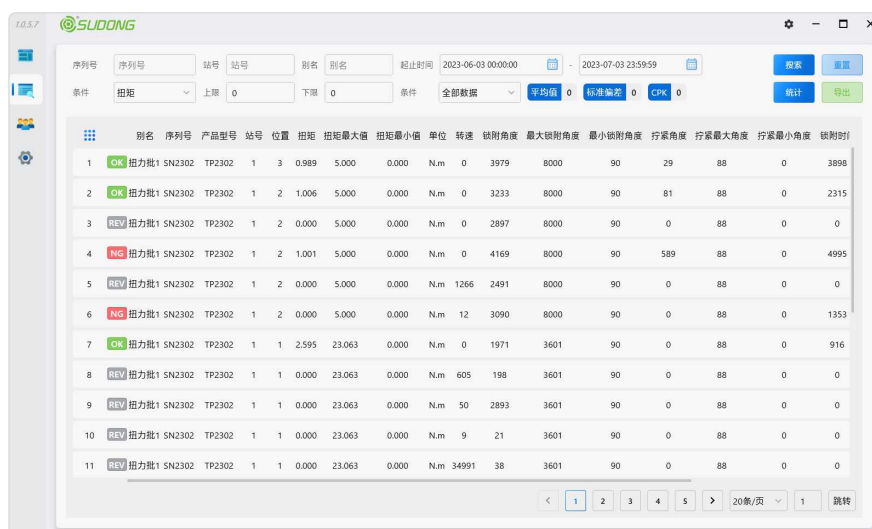
图2

打开单设备连接页面，输入监控端选择的IP和端口号，点击连接。

Open the Single Device Connection page, enter the IP and port number selected by the monitoring terminal and click Connect.

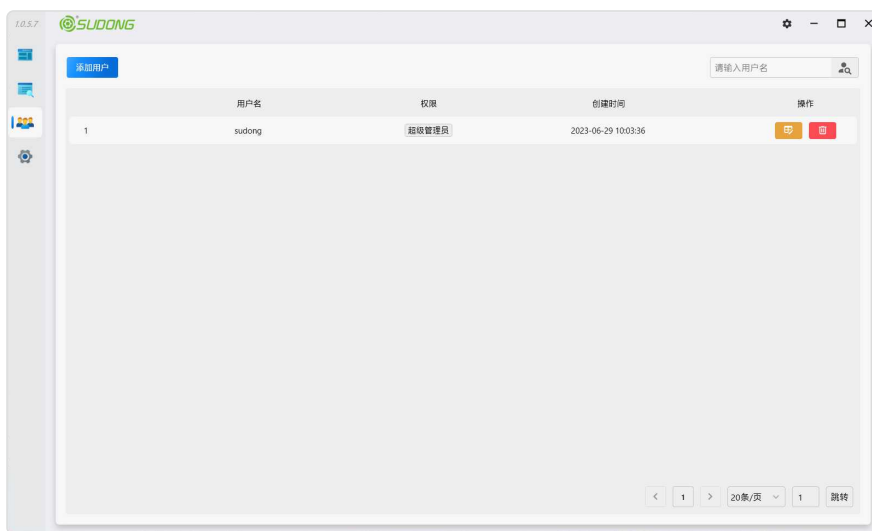
进入系统后系统右上方区域显示与监控机的连接状态，如图1所示。此次监控机运行日志与设备列表如图2所示。

After entering the system, the upper right area of the system displays the connection status with the monitoring machine, as shown in Figure 1. This time the monitoring machine running log and device list is shown in Figure 2.



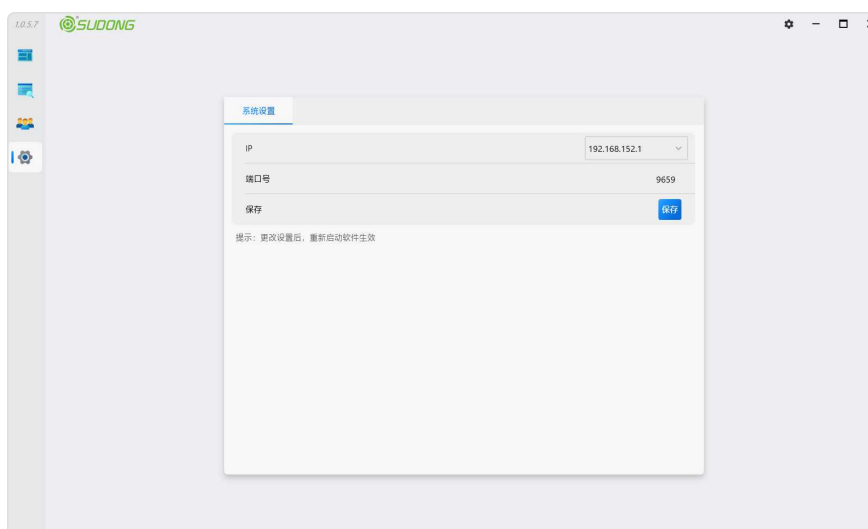
点击【数据查询】按钮，进入数据查询界面，输入要查询的产品序列号、站号、产品别名，设置查询的开始时间和结束时间、上限、下限，选择需要统计的条件参数，可选择Torque/LockAngle/TightenAngle，点击【搜索】按钮进行数据查询，点击数据查询的结果。【重置】对左侧搜索参数进行重置。【统计】对结果进行统计，展示结果在数据统计部分。【导出】将数据进行导出并保存，可导出（xls、xlsx）格式。

Click [Data Query] button to enter the data query interface, enter the serial number of the product to be queried, station number, product alias, set the start time and end time of the query, the upper limit, the lower limit, select the parameters of the conditions that need to be statistically, you can choose the Torque/LockAngle/TightenAngle, click the [Search] button to perform a data query, click on the results of the data query. (Reset) Reset the search parameters on the left side. (Statistics) Performs statistics on the results and displays the results in the Statistics section. (Export) Export and save the data in (xls, xlsx) format.



点击【用户管理】按钮，进入用户管理功能界面，点击【添加用户】按钮，弹出用户名、密码、权限设置对话框，输入用户名，点击查询按钮软件会自动列出筛选后的用户，如果不输入用户名，直接点击查询，软件则会查询所有的用户。点击【更新用户】按钮，弹出用户信息更新对话框，点击【删除用户】按钮，可以删除想要删除的用户信息。

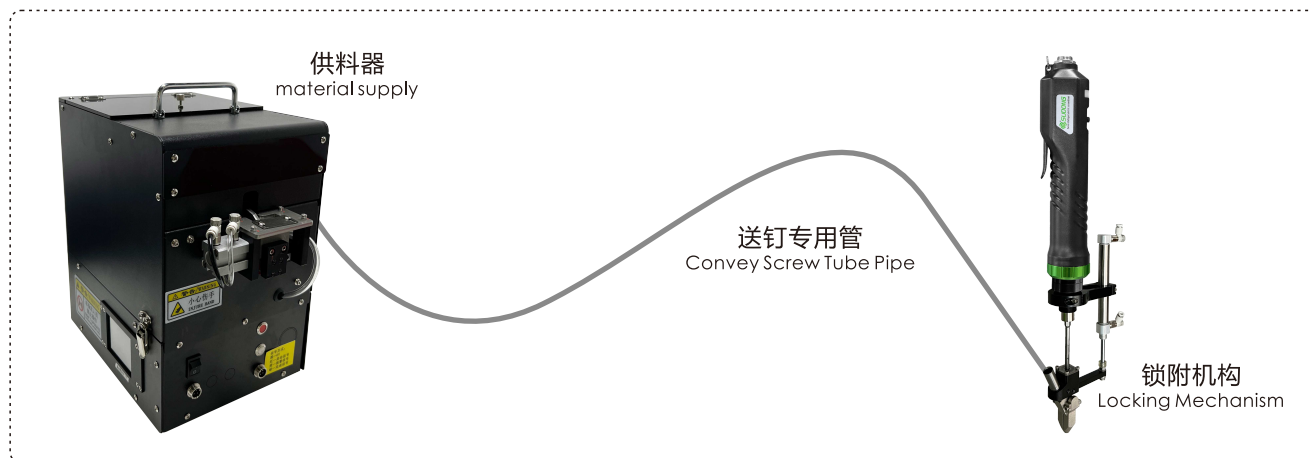
Click the [User Management] button to enter the user management function interface, click the [Add User] button to bring up the dialog box of user name, password and permission settings, enter the user name, click the query button and the software will automatically list the filtered users, if you don't enter the user name and click the query button directly, the software will query all the users. Click [Update Users] button to bring up the dialog box for updating user information, and click [Delete Users] button to delete the user information you want to delete.



点击【系统设置】按钮进入，配置监控端的IP和端口，点击保存后重启软件生效。

Click the [System Settings] button to enter, Configure the IP and port of the monitoring terminal, click Save and restart the software to take effect.

螺钉自动吸送式应用 Automatic Screw Suction Application



伸缩式手持拧紧模块 Telescopic Hand Held Tightening Module

- 螺钉出料口张嘴型：通过两瓣张嘴结构定位螺钉头和螺杆。
Screw outlet opening type: Positioning of the screw head and screw by means of a two-flap nozzle structure.
- 出料口钢球定位型：适合顶丝，小头螺钉等，没有螺钉帽或者螺杆与螺钉帽直径相差不大的紧固件拧紧。
Outlet ball positioning type: suitable for top wire, small head screws, etc., there is no screw cap or screw culm and screw cap set diameter difference is not big fasteners tightening.
- 螺钉Pick & Place真空拾取型：通过对螺钉头的真空吸附方式拾取螺钉并完成拧紧。
Screw Pick&Place Vacuum Pickup: Picks up and tightens screws by vacuuming the head of the screw.



送钉枪嘴定位导向 Positioning guide for nail nozzle



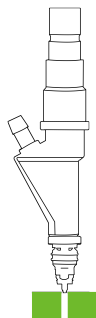
螺钉送钉枪嘴出钉口做锥形倒角设计，形成支撑定位环，定位环用于与拧紧模板相互以斜角定位。
The screw feeding nozzle is designed with a conical chamfer to form a supportive locating ring, which is used to locate with the holding template at an oblique angle to each other.

使人能够快速定位拧紧孔位，并且保证拧紧过程种不会发生偏移。
Enables rapid manual positioning of tightening holes and ensures that the tightening process does not deviate.

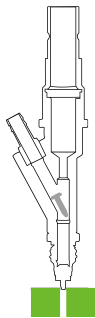
拧紧过程对操作人员的要求比较低，能做到较高的效率和质量控制。
The tightening process is less demanding on the operator's appreciation and can achieve higher efficiency and good quality control.

节拍方面，抬起即送钉，完成一颗螺钉的拧紧即可直接移动到下一个孔位。工作节奏更快。
In terms of tempo, lifting up means feeding nails, completing the tightening of a screw can be moved directly to the next hole. Work time rhythm is faster.

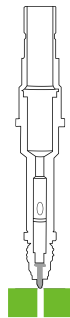
螺钉防缩回结构设计 Screw anti-retraction design



螺钉通过送钉软管吹送到拧紧枪嘴内。
Screws are blown through the nail feed hose into the nozzle of the tightening gun.



双层螺钉定位夹片结构设计，螺钉头部停留在两层夹片中间。
Double-layer screw positioning clamp structure design, the head of the screw rests in the middle of the two layers of clamps.



枪嘴带螺钉下行顶到螺纹孔上时，螺钉不缩回。
Screw does not retract when nozzle with screw is pushed down on threaded hole.

在某些场合手动拧紧时，没有办法采用定位模板结构。

In some cases there is no way to use the positioning template structure when tightening manually

枪嘴需要带着螺钉一起贴近工件，此时，如果螺钉在枪嘴内可以自由活动，那么螺钉前端一接触到工件，就会缩进枪嘴内，难以形成有效定位，对拧紧造成困难。

The gun nozzle needs to be close to the workpiece with the screw. At this time, if the screw is free to move inside the gun nozzle, the front end of the screw will shrink into the gun nozzle as soon as it comes into contact with the workpiece, which makes it difficult to form an effective positioning and creates difficulties in tightening.

采用带螺钉防缩回结构设计的特殊枪嘴，可以有效防止螺钉缩回。

Adoption of special nozzle with screw anti-retraction structure design, which can effectively prevent the positive screw retraction.

拧紧过程螺钉可以首先插入螺纹孔前端并继续下行完成拧紧。

Tightening process screws can be first inserted into the front of the threaded hole and continue downward to complete the controlled tightening.

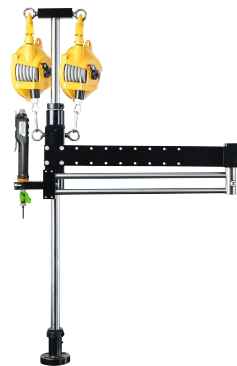
手持式快换拾取拧紧模块 Handheld quick-change pickup tightening module

在一些特定工件螺钉装配时，由于一个工位需要安装的螺钉种类很多，配多把螺钉刀不论从空间还是成本上来说都不合适。

In some specific workpiece screw assembly, due to the many types of screws that need to be installed in one station, it is not suitable to have multiple screwdrivers both in terms of space and cost.

采用此手持式 Pick & Place 快换式真空拾取模块实现快速切换的效果。手握快换端反转15度即可快拆吸管与批头组件。

Quick changeover is achieved with this handheld Pick & Place quick-change vacuum pickup module. Hand-held quick-change end reverses 15 degrees for quick removal of the wand and tip assembly.



手持枪式自动进给拧紧 Hand held gun-type automatic feed tightening

螺钉吹送至枪嘴，枪嘴带防螺钉缩回设计，可以通过螺钉前端进行定位。

Screws are blown into the nozzle, which is designed with anti-screw retraction to allow positioning through the front of the screw.

定位完成，按下启动按钮，拧紧批头自动伸出并完成拧紧过程。

Positioning is complete, press the start button, the tightening batch head automatically extends and completes the tightening process.

适用于大型工件，无法安装拧紧模板的情况，例如白色家电钣金安装等。

Suitable for large workpieces where tightening templates cannot be installed, e.g., white goods gold installation, etc.



拧紧模块应用布局 Application Layout of the Tightening Module



供料系统类型 Type of feeding system



吸气式供料器(小转盘)
Air Blow Feeder (Small Turntable)

适用于各种紧固件，体积小，性能稳定，效率高，耐磨高分子材料盘体。
Applicable to a variety of fasteners, small size, stable performance, high efficiency, wear-resistant polymer material disc body.



吹气式供料器(中转盘)
Air Blow Feeder (Medium Turntable)

适用于各种紧固件，送料效率高，耐磨高分子材料盘体。
Suitable for all kinds of fasteners, high feeding efficiency, wear-resistant polymer material disc body.



吹气式供料器(大转盘)
Air Blow Feeder (Large Turntable)

性能优越、给料稳定、卸料运行平稳、噪声低、故障少、使用寿命长、耐磨性高。
Superior performance, stable feeding, smooth unloading operation, low noise, less failure, long service life, high wear resistance.



吹气式供料器(阶梯式)
Air Blow Feeder (Hierarchical)

较小的振动，送料稳定性不受物料多少影响，简单可靠，易维护。
Smaller vibration, feeding stability is not affected by the amount of material, simple, reliable and easy to maintain.



吹气式供料器(振动盘)
Air Blow Feeder (Vibrate Turntable)

自动给料功能，给料均匀，使用可靠，大大提升供料效率，运行稳定，操作简单。
Automatic feeding function, uniform feeding, reliable use, greatly improve the feeding efficiency, stable operation, simple operation.

锁附机构类型 Type of locking mechanism



真空吸锁附机构(A型)
Vacuum locking mechanism (Type A)

适用于不能吹送的短螺钉拧紧的技术问题，适合狭窄空间或深孔拧紧。

The screw feeding nozzle is designed a conical chamfer to form a supportive locating ring, which is used to locate with the holding template at an oblique angle to each other.



吹气式锁附机构(B型)
Air Blow Attachment Mechanism (Type B)

匹配螺钉自动吹送，适用于拧紧位置周边无干涉处，高效工作节拍。

Matching screws are automatically blown in, suitable for non-interfering areas around the tightening position, for efficient work cycles.

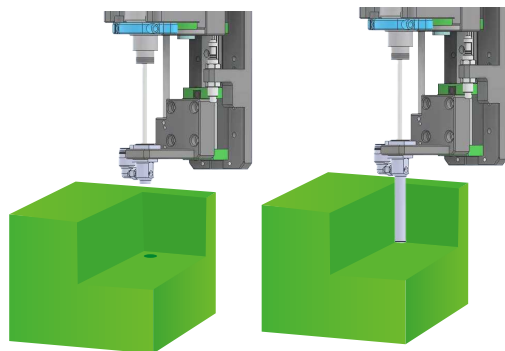


吹吸二合一锁附机构(C型)
Blow & Suction 2-in-1 Locking Mechanism (Type C)

实现螺钉吹送和拾取相结合，综合效率高，适合狭窄空间或者深孔拧紧。

Combined blowing and picking of screws with high overall efficiency for tight spaces or deep holes.

深孔拧紧&周边干涉 Deep hole tightening & peripheral interference



产品拧紧孔位周边有突出的障碍物或者筋板等情况下，普通拧紧模块枪嘴无法在此位置张开，导致无法有效拧紧或者出现掉钉的情况。例如汽车大灯内的反光板拧紧，周边都是很高的凸起加强筋。

If there is a protruding obstacle or reinforcement around the tightening hole, the nozzle of the ordinary tightening module can not be opened at this position, resulting in ineffective tightening or nail drop. For example, the reflector in the car headlight is tightened with very high raised reinforcement around it.

螺钉刀的可及性位置是此技术解决方案的关键因素。吹送+真空吸附式深孔拧紧结构有助于提高拧紧效率，完成极端位置需求。

The accessible position of the screwdriver is a key factor in this technical solution. Blow-Feed + Vacuum-Suction deep hole tightening structure helps to increase tightening efficiency and fulfill extreme positional requirements.

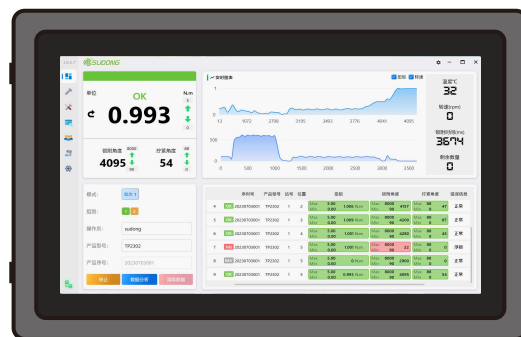
另外，改变装配的顺序步骤或更改工件孔位位置同样有助于简化技术方案。

In addition, changing the sequential steps of the assembly or changing the position of the workpiece holes can also help to simplify the technical solution.

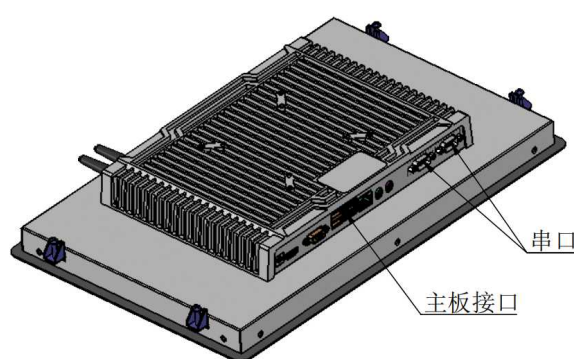
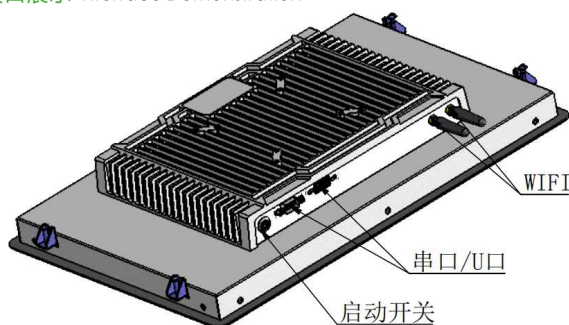
15.6寸工控机 15.6-inch industrial control machine

基本参数 Basic parameters

屏幕 Screen	电容触摸屏 Capacitive touch screen
电流 Current	220V 220V
尺寸 Size	15.6寸 15.6 inch
材质 Material	外嵌全铝 Embedded all-aluminum
处理器 Processor	英特尔i5-5200 代 U Intel i5-5200 generation U
系统 System	预装 WIN10 Pre-installed WIN10
内存 Internal memory	瑞芯内存8G、瑞芯硬盘SSD128G Internal memory: Ruixin memory 8G, Ruixin hard disk SSD128G
接口 Interface	内置Wifi、双网口、USB*1、RS232*2 Built-in Wifi, dual network port, USB * 1, RS232 * 2



接口展示 Interface Demonstration



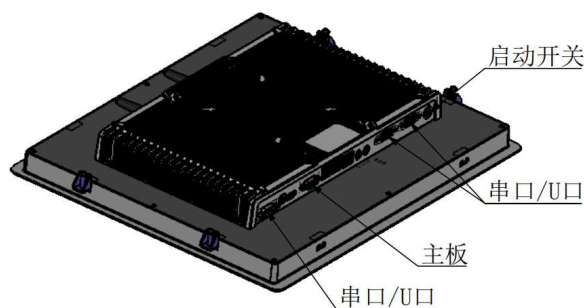
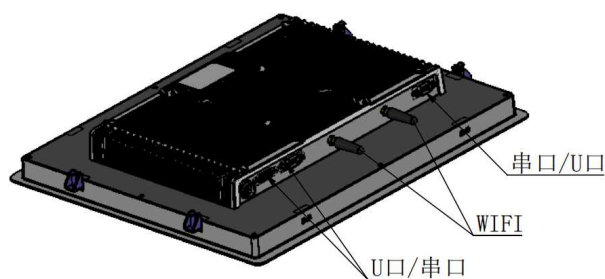
17寸工控机 17-inch industrial control machine

基本参数 Basic parameters

屏幕 Screen	电容触摸屏 Capacitive touch screen
电流 Current	220V 220V
尺寸 Size	17寸 17 inch
材质 Material	外嵌全铝 Embedded all-aluminum
处理器 Processor	英特尔i5-5200 代 U Intel i5-5200 generation U
系统 System	预装 WIN10 Pre-installed WIN10
内存 Internal memory	瑞芯内存8G、瑞芯硬盘SSD128G Internal memory: Ruixin memory 8G, Ruixin hard disk SSD128G
接口 Interface	内置Wifi、双网口、USB*4、RS232*4 Built-in Wifi, dual network port, USB * 4, RS232 * 4



接口展示 Interface Demonstration



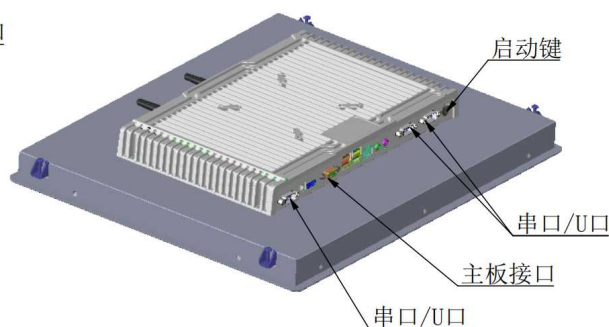
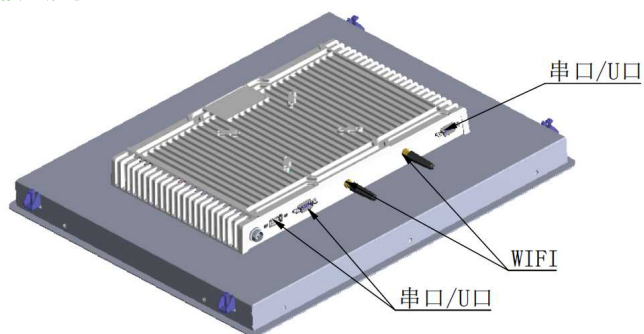
19寸工控机 19-inch industrial control machine

基本参数 Basic parameters

屏幕 Screen	电容触摸屏 Capacitive touch screen
电流 Current	220V 220V
尺寸 Size	19寸 19 inch
材质 Material	外嵌全铝 Embedded all-aluminum
处理器 Processor	英特尔i5-5200 代 U Intel i5-5200 generation U
系统 System	预装 WIN10 Pre-installed WIN10
内存 Internal memory	瑞芯内存8G、瑞芯硬盘SSD128G Internal memory: Ruixin memory 8G, Ruixin hard disk SSD128G
接口 Interface	内置Wifi、双网口、USB*4、RS232*4 Built-in Wifi, dual network port, USB * 4, RS232 * 4



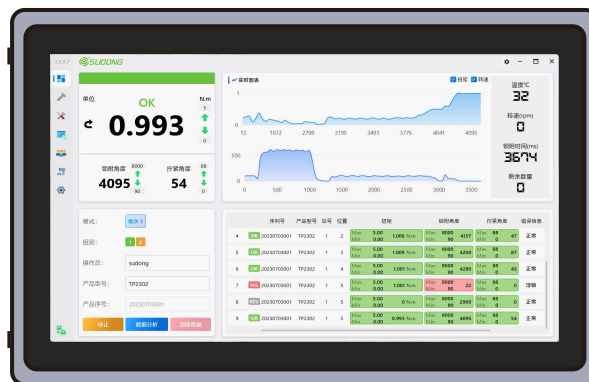
接口展示 Interface Demonstration



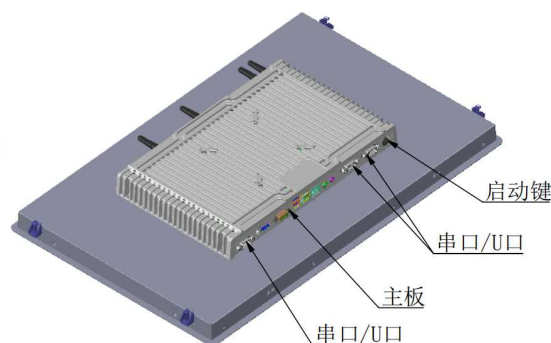
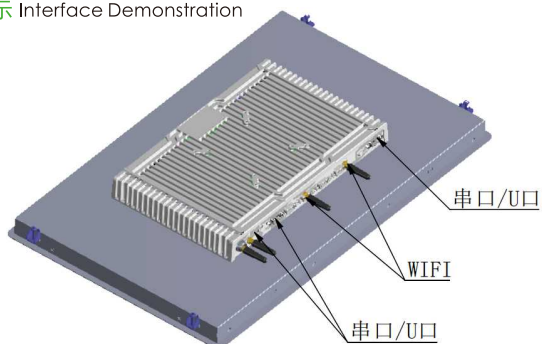
21.5寸工控机 21.5-inch industrial control machine

基本参数 Basic parameters

屏幕 Screen	电容触摸屏 Capacitive touch screen
电流 Current	220V 220V
尺寸 Size	21.5寸 21.5 inch
材质 Material	外嵌全铝 Embedded all-aluminum
处理器 Processor	英特尔i5-5200 代 U Intel i5-5200 generation U
系统 System	预装 WIN10 Pre-installed WIN10
内存 Internal memory	瑞芯内存8G、瑞芯硬盘SSD128G Internal memory: Ruixin memory 8G, Ruixin hard disk SSD128G
接口 Interface	内置Wifi、双网口、USB*4、RS232*4 Built-in Wifi, dual network port, USB * 4, RS232 * 4

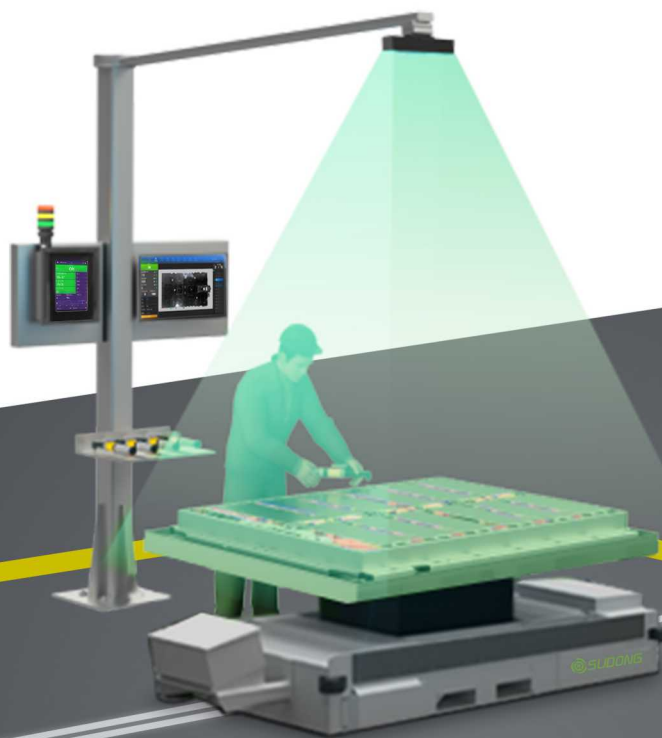


接口展示 Interface Demonstration



速动智能拧紧 紧固件定位防错系统

螺栓拧紧防错 | 防止遗漏零部件 | 防止工件错误 | 防止不按标准程序操作



研发背景 | R&d Background

随着发动机组装和新能源车电池包组装生产环节装配的柔性化程度越来越高，传统力臂辅助定位的方式无法满足需求，需要工人根据来料种类的不同，切换不同的拧紧程序，并在拧紧过程当中按照螺栓顺序拧紧螺栓。由于操作工人的疲劳和专业度的原因，螺栓拧紧出错的情况时有发生，并且有时该类错误无法通过质检发现，一旦不合格的产品生产后，后果极其严重。因此速动紧固件定位防错系统应运而生。

系统简介 | System introduction

该系统由3D双目相机、电动拧紧工具标记板、软件三部分组成。实现对安装在电动拧紧工具上的标记板实时定位跟踪，可计算出电动拧紧工具的标记板的位置及电动拧紧工具方向，并根据工具自身结构自动映射出工具输出头的位置。只有当电动拧紧工具处于正确的位置时，电动拧紧工具才能启动，其他状态下电动拧紧工具被关闭，该系统还提供电子化拧紧操作指导，通过闪烁的螺栓点位来引导目前应该锁附的螺栓位置，从而严格控制工具到正确螺栓位置才拧紧，按设定的螺栓顺序拧紧，从而严格避免错拧、漏拧、不按顺序拧紧等问题，达到真正的螺栓拧紧防错。

系统优势 | System advantage

- 1、工作点位置识别精度最高可达10mm；
- 2、相机可覆盖 2 米以上的工位空间；
- 3、来料位置无需机械定位，系统可进行实时检测定位纠偏；
- 4、优秀的人机交互UI 界面，安装、部署、维护方便；
- 5、显示实时数据，拧紧数据可追溯，拧紧曲线可叠加查看；
- 6、软件可对接MES系统；

参数指标 | Parameter index

尺寸

- > 宽×高×深(含接口):
538.4mm×85.5mm×89.6mm
- > 重量: 2.2kg

度量

- > 基线长度: 450mm
- > 测距范围: 1.26m~4.3m
- > FOV(H/V): 62°/50°
- > 测量精度:
X, Y: 2.74 mm @ 1.2 m
4.6 mm @ 2.0 m
Z: 0.53 mm @ 1.2 m
1.47 mm @ 2 m
3.3 mm @ 3 m

性能

- > 深度:
1 fps @ 1280 x 960
1 fps @ 640x 480
1 fps @ 320 x 240
- > 彩色:
11 fps @ 2592x 1944
16 fps @ 1280x 960
25 fps @ 640 x 480
支持RGB-D同步对齐

物理

- > 工作温度:
存储:-10C~55C
操作:0°C~45C
- > 防护等级: IP54

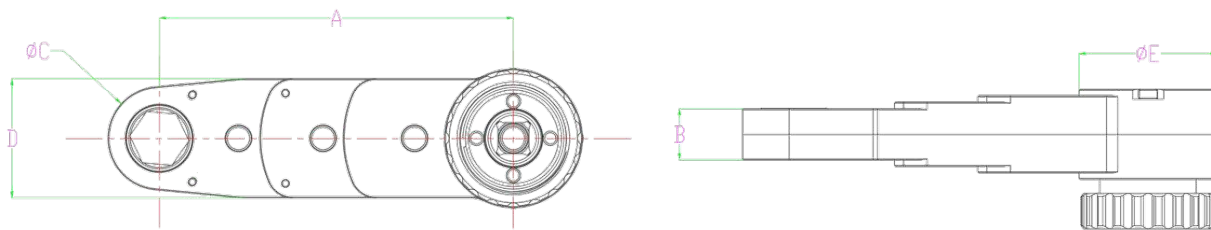
说明: 除*测量精度是理论数据外, 其余数据都为实测数据。



特殊拧紧头类型 Special tightening head type



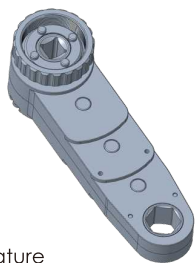
闭口型特殊偏置头系列 Closed type special offset head series



应用场景 Application scenario

- 适用于狭小空间，解决普通动力工具难以进入位置的螺栓拧紧需求，提升装配生产过程中的拧紧工艺和过程控制，既提高了装配质量也提高了生产效率。

Applicable to narrow space, to solve the ordinary power tools are difficult to access the position of the bolt tightening needs, to improve the assembly production process of tightening process and process control, both to improve the quality of the assembly and improve production efficiency.



特点 Feature

- 输出扭矩：1-195Nm。
Output torque: 1-195Nm.
- 传动等级：2、3、4或6。
transmission level: 2、3、4 or 6.
- 扭矩传输精度：±5%。
Torque Transfer Accuracy: ±5%.
- 过程传动效率，齿轮副接触效率约0.96，单轴承效率约0.99，输出齿轮效率约0.88。
Process drive efficiency, gear pair contact efficiency approx. 0.96, single bearing efficiency approx. 0.99, output gear efficiency approx. 0.88.

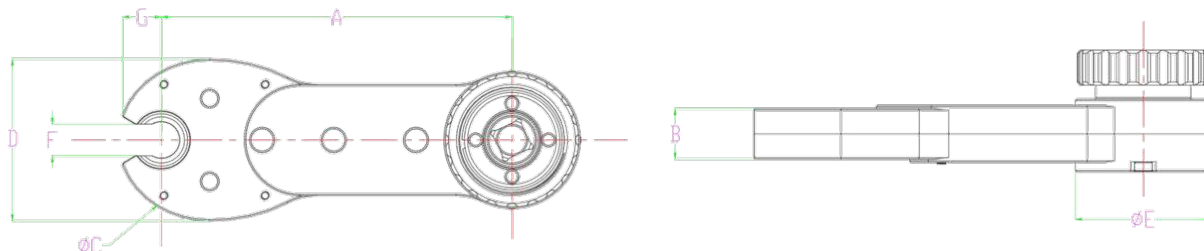
■ 传动效率及输出扭矩(参考值) Drive efficiency and output torque (reference value)

产品系列 Product Series		15	25	35	55	90	150	200	250
最大输入扭矩/Nm Max. input torque/Nm		15	25	35	55	90	150	200	250
最大输出 扭矩/Nm Max. Output torque/Nm	2级(0.78-0.80)	11.5	19.5	27	43	70	117	156	195
	3级(0.73-0.75)	10.5	18	25.5	40	65.5	110	146	182
	4级(0.70-0.72)	10	17.5	24.5	38.5	63	105	140	175
	6级(0.63-0.65)	9.5	15.5	22	34.5	-	-	-	-

■ 偏置头结构尺寸参数(参考值, 单位mm) Bias head size data (reference value, unit mm)

系列 Series	15	25	35	55	90	150	200	250
对应螺栓规格 Bolt specification	M5-M6	M5-M8	M6-M8	M8-M10	M10-M12	M12-M14	M12-M16	M16-M24
扳手规格 Wrench size	8-10	8-13	10-14	13-16	16-19	18-20	18-24	24-36
A	25-115	35-135	35-165	42-172	50-140	60-145	70-150	80-205
B	10-15	10-15	10-16	14-18	18-25	25-30	20-32	25-35
C	8-11	9-13	10-15	13-16	15-20	18-20	19-22	25-30
D	16-24	18-29	22-33	30-37	38-42	41-43	43-45	44-45
E	27	34	38	43	48.5	52.5	60.3	73

开口型特殊偏置头系列 Open type special offset head series



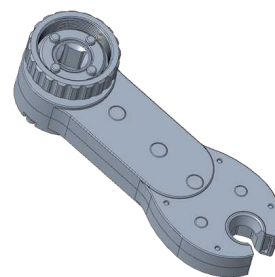
应用场景 Application scenario

- 适用于管道、软管、线缆拧紧固定工位，解决这些工位无法正常使用普通动力工具的工艺难题，大幅提升生产效率，也能辅助提高拧紧工艺和过程控制，提高装配质量。

Applicable to pipe, hose, cable tightening fixed workstation, to solve these workstations can not be normal use of ordinary power workers really process problems, significantly improve production efficiency, but also to assist in improving the Tightening process and process control, improve assembly quality.

■ 传动效率及输出扭矩(参考值) Drive efficiency and output torque (reference value)

产品系列 Product Series		15	25	35	55	90	150	200
最大输入扭矩/Nm Max. input torque/Nm		15	25	35	55	90	150	200
最大输出 扭矩/Nm Max. Output torque/Nm	2级(0.78-0.80)	11.5	19.5	27	43	70	117	156
	3级(0.73-0.75)	10.5	18	25.5	40	65.5	110	146
	4级(0.70-0.72)	10	17.5	24.5	38.5	63	105	140



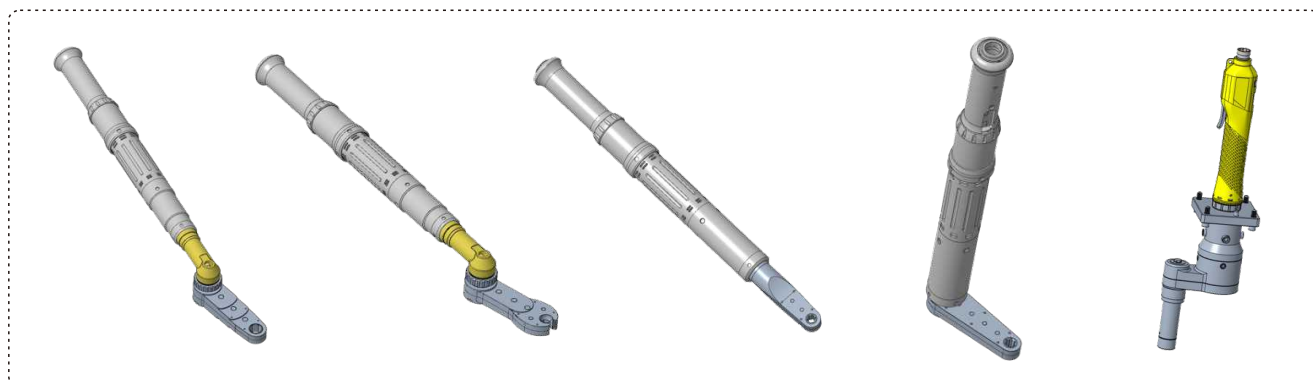
■ 偏置头结构尺寸参数(参考值, 单位mm) Bias head size data (reference value, unit mm)

系列 Series	15	25	35	55	90	150	200
对应螺栓规格 Bolt specification	M5	M6	M6-M8	M8-M12	M10-M14	M12-M16	M16-M20
扳手经规格 Wrench size	8	10-11	10-14	14-19	16-22	19-24	24-30
A	20-62	25-72	30-83	35-111	40-126	46-128	61-140
B	8-10	10-15	11-16	12-18	13-20	18-21	22-23
C	12-18	14-22	13-35	16-40	15-20	20-22	23-24
D	28-30	33-35	40-43	45-57	58-63	61-65	65-70
E	30	34	36	43	48	53	60
F	5.5	7-8	7-9	10-13	12-16	14-17	16-21
G	8	10	11-14	12-17	15-20	16-21	21-35

特点 Feature

- 输出扭矩: 1-156NM。
Output torque: 1-156Nm.
- 传动等级: 2、3、4。
transmission level: 2、3、4.
- 扭矩传输精度: $\pm 10\%$ 。
Torque Transfer Accuracy: $\pm 10\%$.
- 过程传动效率, 齿轮副接触效率约0.96, 单轴承效率约0.99, 输出齿轮效率约0.88。
Process drive efficiency, gear pair contact efficiency approx. 0.96, single bearing efficiency approx. 0.99, output gear efficiency approx. 0.88.

特殊拧紧头连接电批示例图 Special tightening head connecting electric batches Schematic



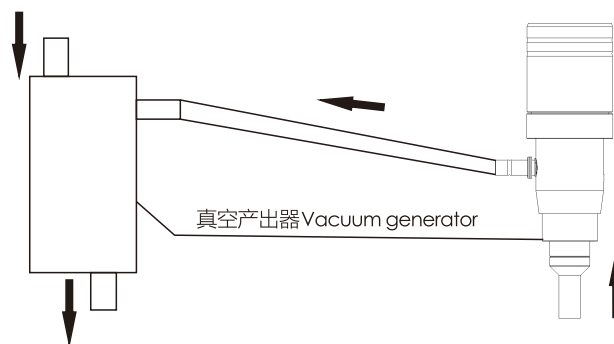
真空吸头
Accessory for suction driver



SD-Q4

SD-Q5

真空吸头使用示意图
The usage sketch of vacuum suction nozzle



注:箭头为气流方向
Note: Arrow indicates the flow direction

应用
Application



特点 Feature

适合无法以磁力吸附的螺丝或自动机的组装作业使用。
For the magnetic force of the screw can not be or aut-omated machine assembly operations.

特殊机型可定制。
Special models can be customized.

机型 MODEL	适合电动螺丝刀型号 Suitable for electric screwdriver Type
SD-Q4	SD-NC08L-AC-X7 SD-NC08L-AC-X2 SD-NC30L-AC-X7 SD-NC30L-AC-X2 SD-NC60L-AC-X7 SD-NC60L-AC-X2
SD-Q5	SD-NC100L-SB-X7 SD-NC100L-SB-X2 SD-NC100L-AB-X7 SD-NC100L-AB-X2 SD-NC200L-SB-X7 SD-NC200L-SB-X2 SD-NC350L-SB-X7 SD-NC500L-SB-X7 SD-NC200L-AB-X7 SD-NC350L-AB-X7 SD-NC500L-AB-X7 SD-NC350L-SB-X2 SD-NC500L-SB-X2 SD-NC200L-AB-X2 SD-NC350L-AB-X2 SD-NC500L-AB-X2

平衡支架 Balancing stand

技术参数 Technical parameters

型号 Type	夹持范围 Clamping range	上下工作范围 Up and down working range	左右作业半径 Working radius around
SD-A	28-45mm	600mm	300-680mm
SD-B	28-45mm	700mm	160-650mm
SD-C	27-48mm	400mm	100-1000mm



平衡吊车 Spring Balancer



技术参数 Technical parameters

机型 Type	负重 Load weight	拉伸长度 Stretching length	产品重量 Weight
SD-1	0.5-1.5Kg	1.5M	0.4Kg

应用 Application



特点 Feature

- 吊挂电动螺丝刀，方便操作并减轻使用者负担。
Reduce the weights receive on a hand by hanging over a screwdriver, easy operation.
- 可调节作业高度，使用后自动恢复定位，避免电动螺丝刀连接线因长期使用折弯段线。
Adjustable operating height, automatic returning to position after use, avoids breaking or bending by long-term using for Electric Screwdriver Power Cord.

电动螺丝刀插座 Electric screwdriver socket

SD-K1 SD-K2 SD-K3 SD-K4



特点 Feature

便于安装没法吊挂的工作台。
Easy to install in the table which could not hanging possible.

电源线 Power cord

特点 Feature

新型材料，不易折断，超强耐用。
New materials and difficult to break, super durable.
适合智能伺服系列电动螺丝刀。
Suitable for intelligent servo series electric screwdrivers.

直形连接线 Straight Connection Line



SD-3P&SD-5P&SD-8P



SD-16P-L&SD-16P-S&SD-17P

型号 Model

SD-3P SD-5P SD-8P SD-16P-L SD-16P-S SD-17P

特殊长度可定制
Special lengths can be customized.

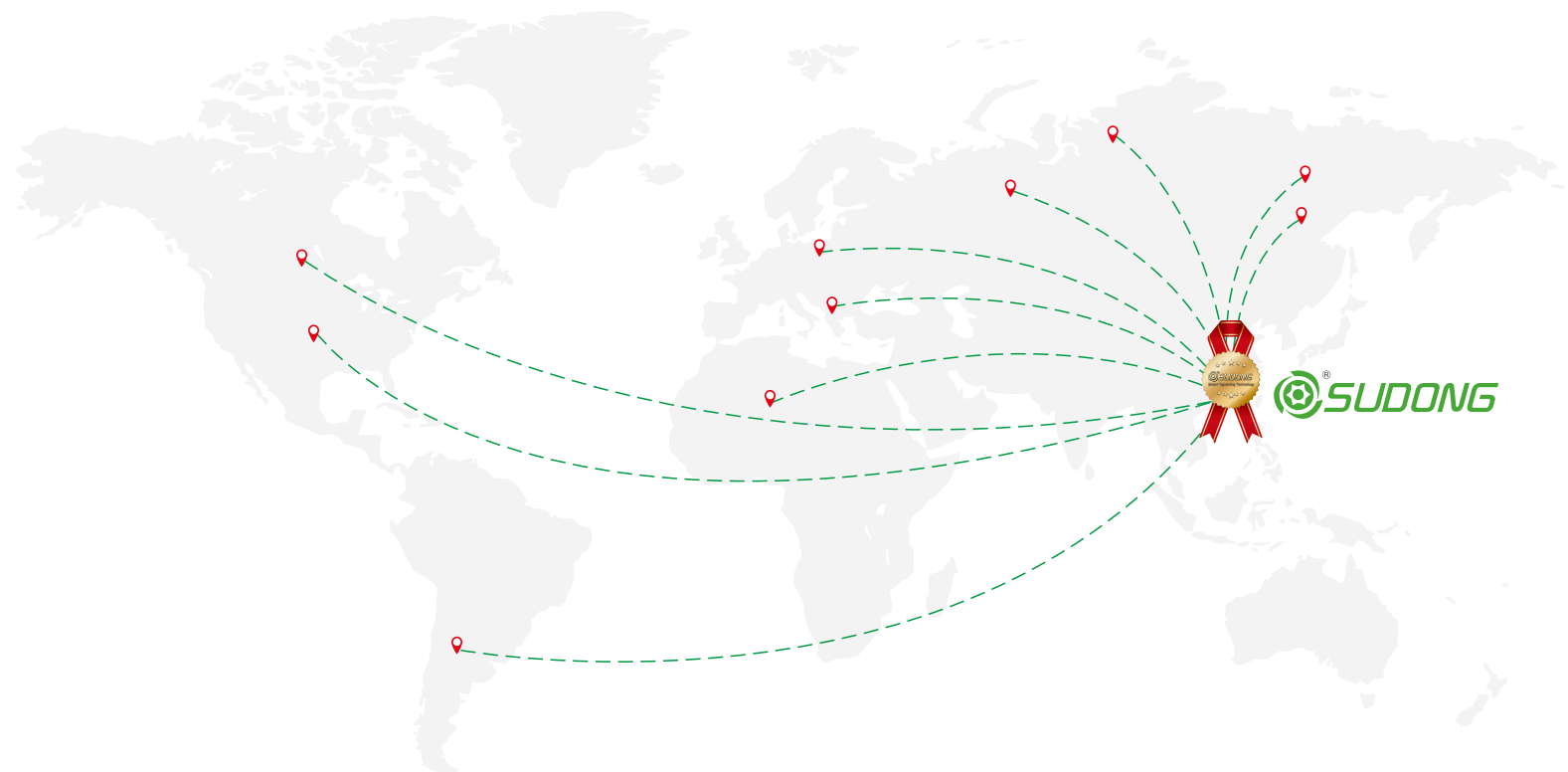
型号编排说明 Type choreography description:

A - L - d - e - P

- 后端型号: Back-end Type: A: 5mm HEX B: 1/4" HEX C: Ø4mm D: Ø5 mm W: 3/8" HEX
■ 前端长度 Front-end length
■ 输出端规格 (00, 0, 1, 2, 0.4, T5,) Output specifications
■ 前端直径 D Front-end diameter D
■ 总长度 L The total length of L

起子头规格对照表
Screwdriver head specifications table

样式 Style	规格 Specification			L	
	后端型号 Back-end model	尺寸 Size			
十字型起子头Cross-head screwdriver	A: 5mm HeX B: 1/4"Hex C: 4mm D: 5mm W: 3/8"Hex	d	P	e	40-200
			00	20-30	
		2.0-2.6	0		
			1		
3.0-5.0		2			
H			40-100		
2.0-3.0		0.4			
		0.6			
4.5-5.0		0.8			
H			40-100		
1.27 / 1.5 2.0 / 2.5 3.0 / 4.0 / 5.0 / 6.0					
A/H					
2.2-14.0			50-150		
d				T	
梅花型起子头Plum-type screwdriver head		2.0	T5-T6		40-100
		2.5	T7-T8		
		3.0	T9-T10		
		3.5	T15		
		4.0	T20		
		5.0	T25		
		6.0	T30		
双头十字型起子头 Double-headed cross-shaped screwdriver head	P			45-300	
	1				
	2				



公司起源于(年)

1998

累计销量(支)

100.00000

热销国家地区(个)

97

终端用户代表 End-user Representatives

 中国中车
CRRC




海信



上汽集团
SAIC MOTOR






富士康科技集团



 **4008 338 598**

速动智能拧紧技术（广东）有限公司

SUDONG Smart Tightening Technology (Guangdong) Co., Ltd.

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☎ 电话：0769-82238598 82238596 82238595

✉ 邮箱：sudong@vip.163.com

🌐 网址：www.sudong.com 官方商城：www.sudong.cn

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The contents of this catalog may be changed due to product improvement without notice.



速动官方公众号



速动官方商城

SUDONG-2023B-2A





助力迈入工业4.0智能装配时代

速动智能

0.01N.m-70N.m

工业级无刷离合式定扭工具系列

SUDONG INTELLIGENT INDUSTRIAL GRADE BRUSHLESS CLUTCH TYPE TORQUE SETTING TOOL SERIES

- ☑ 广东省“专精特新”中小企业
- ☑ 国家高新技术企业
- ☑ 通过质量管理体系 ISO 9001:2015 认证



智能拧紧技术服务商

Intelligent tightening technology service provider



战略目标 Strategic objectives

公司将利用人才，技术优势，大力发展高新技术产业；积极参与国内外同行业的竞争，建成国内外电子产品领域极具影响力的高新技术企业。
The company will make use of talents and technological advantages to vigorously develop high-tech industries; actively participate in the competition of the same industry at home and abroad, and build a highly influential high-tech enterprise in the field of electronic products at home and abroad.

公司宗旨 Company purpose

以人才为根本，以创新为灵魂，以市场为导向，以顾客为中心，培育和建立电子产品高新技术产业，为广泛的工业领域用户提供创造新价值的高性能产品

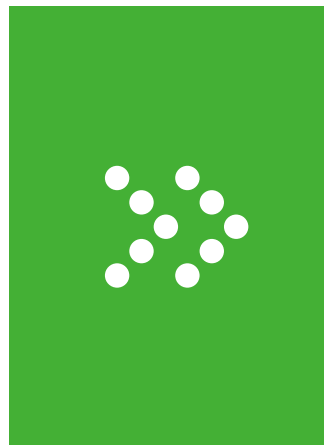
Take talent as the foundation, innovation as the soul, market-oriented, customer-centric, cultivate and establish high-tech industries of electronic products, and create new value for users in a wide range of industrial fields high-performance products.

速动愿景 Quick vision

速动SUDONG深耕中国，放眼世界，每一分用心和努力源于美好的愿景：做世界最好的拧紧工具，做世界认可的拧紧工具。

Sudong Sudong is deeply involved in China and looking at the world. Every effort and effort stems from a beautiful vision: Be the world's best tightening tool, be the world's recognized tightening tool.





公司简介 Company Profile

速动智能拧紧技术（广东）有限公司。位于东莞松山湖，成立于2007年，是一家智能伺服电动螺丝刀，智能伺服拧紧轴，充电式智能扳手，工业级无刷定扭电动螺丝刀，扭矩测试仪，智能拧紧数据采集软件及周边配套产品的研发、生产、销售于一体的专业性高新技术企业。

深耕紧固领域十余载，速动智能以自主研发与科技创新为利器破除行业技术壁垒，打破国外紧固品牌的长期垄断局面，引领紧固工具走向数字化，智能化与集成化。多年来，速动SUDONG以“一切的科研技术以拧紧为核心”为经营理念，率先掌握数字拧紧核心算法，并建设性的在行业内提出“智能拧紧”与“数字拧紧”概念。

公司拥有一批从事开发、生产科研技术人才和得力的管理团队，秉承着追求创新的服务理念，持续进行拧紧工具的创新与科技研发，为广大客户源源不断的提供适用的拧紧工具，并创造更高的市场价值和效益。

速动SUDONG深知只有每一个细小的零件都精准咬合才能保证整体的精准运转，因此从设计理念到精密的制造工艺以及严格的出厂检验，全程严谨。发展至今，速动SUDONG的产品精密耐用，并拥有多项自主知识产权，服务点遍布全国各地多个城市，其无刷智能电动螺丝刀出口全球200多个国家和地区，全球累计销量超过100万只，为万千用户提供具适配性的数字拧紧装配服务。

速动SUDONG立足当下、放眼世界，每一分用心和努力都源于美好的企业愿景：做世界最好的拧紧工具，做世界认可的拧紧工具。

Sudong Smart Tightening Technology (Guangdong) Co., Ltd. Located in Songshan Lake, Dongguan, founded in 2007, it is a professional high-tech enterprise integrating the R & D, production and sales of intelligent servo electric screwdriver, intelligent servo tightening shaft, rechargeable intelligent wrench, industrial brushless constant torque electric screwdriver, torque tester, intelligent tightening data acquisition software and surrounding supporting products.

With more than ten years of deep cultivation in the field of fastening, Sudong uses independent R&D and technological innovation as a weapon to break industry technical barriers, break the long-term monopoly of foreign fastening brands, and lead fastening tools to digital, intelligent and integrated. Over the years, Sudong SUDONG has taken the business philosophy of "all scientific research and technology centered on tightening", and took the lead in mastering the core digital tightening algorithms, and constructively proposed the concepts of "intelligent tightening" and "digital tightening" in the industry. The company has a group of R&D, production, scientific research and technical personnel and an excellent management team. Adhering to the service concept of pursuing innovation, the company continues to carry out the innovation of tightening tools and scientific research and development, and continuously provides customers with the most advanced tightening tools and creates Higher market value and efficiency.

Sudong knows that only every small part is accurately occluded to ensure the precise operation of the whole, so from the design concept to the precise manufacturing process and strict factory inspection, the whole process is rigorous. So far, Sudong's products are precise and durable, and have a number of independent intellectual property rights. Its service points are in many cities across the country. Its brushless smart electric screwdrivers are exported to more than 200 countries and regions around the world, and the global cumulative sales volume exceeds 1 million. , Provide the most adaptable digital tightening assembly service for thousands of users.

Sudong is based on the present and looking at the world. Every effort and effort stems from a beautiful corporate vision: Be the world's best tightening tool, be the world's recognized tightening tool.



发展历程

Development process

• 2007.7

东莞市锦波电子科技有限公司（公司主力推广自有品牌(速动SUDONG)工业级电动螺丝刀、周边测试仪器及自动化配套产品，在完善国内市场的同时向发展国际市场迈进）

Dongguan Jinbo Electronic Technology Co., Ltd. (the company's main force to promote its own brand (speed SUDONG) industrial-grade electric screwdriver, peripheral test instruments and automation products, in the domestic market while perfecting the development of the international market towards the progress)

• 2017

2017年11月，速动第一台微扭矩伺服电动螺丝刀在德国慕尼黑展出。同年12月，公司获得广东省高新技术企业。

In November 2017, the first micro-torque servo electric screwdriver of Speedmotion was exhibited in Munich, Germany. In December of the same year, the company was awarded high-tech enterprise in Guangdong Province.

• 2011.1

2011年01月被东莞市科学技术局，评定为民营科技企业资格。

January 2011 by the Dongguan Science and Technology Bureau, assessed as a private science and technology enterprise qualification.

• 2011.3

2011年03月通过ISO9001:2008质量管理体系认证。

March, 2011 Passed ISO9001:2008 quality management system certification.

• 2011.9

2011年09月全系列产品通过CE认证

September 2011, the whole series of products through the CE certification.







企业资质 Qualification



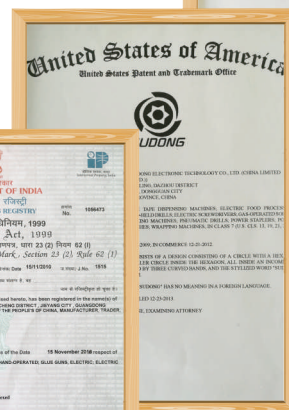
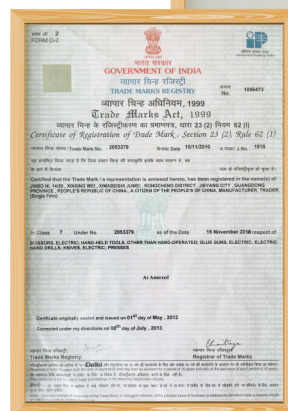
荣誉源于用心，每份认可的资质证书凝聚了速动人努力拼搏，勇于创新的精神，每份荣誉都来之不易，我们将倍加珍惜，一如既往的为客户提供优质的产品和周到的售后服务。公司高度重视科技创新，努力提升自主研发能力，推动知识产权申报工作取得新进展。知识产权的不断积累提升了企业的核心竞争力和品牌影响力。

Honor comes from hard work. Each recognized qualification certificate embodies the spirit of quick-moving hard work and innovation. Every honor is hard-won, and we will cherish it, as always, provide customers with high-quality products and thoughtful after-sales service. The company attaches great importance to technological innovation, strives to improve its independent research and development capabilities, and promotes new progress in the declaration of intellectual property rights. The continuous accumulation of intellectual property rights has enhanced the core competitiveness and brand influence of enterprises.



荣誉只代表过去，
未来我们必将更加努力！
Honor only represents the past, We will work harder in the future!

通过质量管理体系 ISO 9001:2015 认证



专业更专注

Professional more focused



工业级无刷离合式定扭电动螺丝刀

助力迈入工业 4.0智能装配时代

拧紧作业全自动

拧紧扭力自适应

拧紧品质可追溯

在数据化、信息化的时代，制造业正处于全新的高度，激烈的市场竞争，要体现出自身的优势，那就必须获取更多的制造信息。

In the era of data and information, manufacturing is at a new height. In the fierce market competition, to reflect its own advantages, it is necessary to obtain more manufacturing information.

在生产、制造过程中使用具有拧紧信息收集与通信的工具，将极大地提高产品质量，提高解决问题的能力，并有效降低能耗。

Tools with tightening information collection and communication are used in the manufacturing process. It will greatly improve product quality, improve the ability of tools to solve problems, and effectively reduce energy consumption.

电动螺丝刀用于各种严苛环境中，因此精确度、重复性和可靠的工作周期都是它的关键所在。速动的无刷空心杯电机具有峰值扭矩和稳定的运转速度，为速动电动螺丝刀提供一流性能，同时我们还为其做了一系列的优化，其中包括：轻量化设计、符合人体工程学握把、自由调整转速、计数、报错等，可以敏捷地工作于各种级别的拧紧装配作业中。

Electric screwdriver are used in a variety of harsh environment, so accuracy, repeatability and reliable working cycle are all key to it. Sudong brushless hollow cup motor has high peak torque and stable running speed, providing first-class performance for the Sudong electric screwdriver, and we have also made a series of optimizations, including: lightweight design, ergonomics Grip, freely speed adjustment, counting, errors reporting, etc., it can work agilely in various levels of tightening assembly operations.



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无干扰 . 低噪音
No interference, low noise

无刷电机去除了电刷，在运转时不会产生电火花，极大减少电火花对无线设备的干扰，同时将摩擦力降至最低，使整个运转过程更为顺畅，噪音也随之大大降低。

The brushless motor removes the brush, and does not generate electric spark during operation, greatly reducing the interference of the spark to the wireless device. At the same time, the friction is minimized, the whole operation process is smoother, and the noise is greatly reduced.



长寿命 . 低成本
Long life, low cost

去除了电刷无刷电机的磨损主要是在轴承上，最大限度提高使用寿命，从机械的角度看，速动无刷电动螺丝刀几乎是一种免维护的电动工具。

Without electric brush, the wear of the brushless motor is mainly on the bearing to maximize the service life. From the mechanical point of view, Sudong brushless electric screwdriver is almost a maintenance-free power tool.



零排放 . 无污染
Zero emission,
no pollution

速动无刷电动螺丝刀使用速动高品质无刷电机，没有碳粉溢出，在运转时零排放不会污染工作环境，适合无尘车间拧紧作业使用。

Sudong brushless electric screwdriver uses Sudong high-quality brushless motor, no toner overflowed, zero emission during operation will not pollute the working environment, suitable for dust-free workshop tightening operation.



重复性 . 精度高
Repeatability and high
accuracy

采用精密机械离合控制输出扭矩，确保重复扭矩精度误差 $\pm 5\%$ ，而且小巧、重量轻、震动小，操作舒适安全性高。

Adopting precision mechanical clutch the output torque, which ensures that the repeat torque accuracy error is $\pm 5\%$. It is compact, light weight, low vibration, comfortable and safe to operate.



零触点 . 磁开关
Zero contact,
magnetic switch

速动无刷电动螺丝刀整机采用非接触式磁感应开关，没有使用次数限制，不需要定期维护，提高正常运行时间。

Sudong brushless electric screwdriver adopts a non-contact magnetic induction switch, which has no usage limit and does not require regular maintenance to improve the normal running time.



高智能 . 速动创
High Intelligence,
Sudong creation

内置速动自主编写的驱动控制程序，掌握核心技术，运用深层算法精准控制速动电动螺丝刀的每一个运行细节。

Built-in Sudong own written drive control program, master the core technology, using deep algorithms to precisely control every movement detail of the Sudong electric screwdriver.



高精度 . 变速箱
High precision, Gearbox

通过精密计算及加工的变速箱配合速动无刷空心杯电机，运转噪音小，输出转速稳定，同时拥有超长工作寿命。

Through the precision calculation and processing of gearbox with the Sudong brushless hollow cup motor, the running noise is low, the output speed is stable, and the working life is long.

速动无刷电动螺丝刀应用领域 The Application fields of SUDONG Brushless Electric Screwdriver

速动无刷电动螺丝刀应用领域之广泛，几乎适用于整个轻工业生产装配。我们拥有专业团队，应对不同拧紧要求做出相应的解决方案，为客户特殊应用定制专业的操作培训；以及应用周边配套设施使用指引。让客户拥有更得心应手的拧紧工具，有效提高整个拧紧装配作业质量。

Sudong brushless electric screwdriver is widely used in all light industrial production and assembly. We have a professional team, to respond to different tightening requirements and make appropriate solutions, customize professional operation training for customers' special applications, and apply the guidelines for the use of surrounding facilities. Let customers have more handy tightening tools, effectively improve the quality of the whole tightening assembly work.





精密机箱设备组装 Precision case equipment assembly

产品名称：智能计数一体型手按式

项目特点：速动无刷电动螺丝刀，多种锁附参数自由设置，为产品定制专属的锁附模式，有效防止漏锁螺丝，让锁附更智能，减少成本，提高生产效率。

Product Name: Intelligent counter compact trigger-start type

Project Feature: Speed brushless electric screwdriver, a variety of locking parameters freely set, customized for the product exclusive locking mode, effectively preventing the leakage of locking screws, so that the locking is more intelligent, reduce costs and improve productivity.



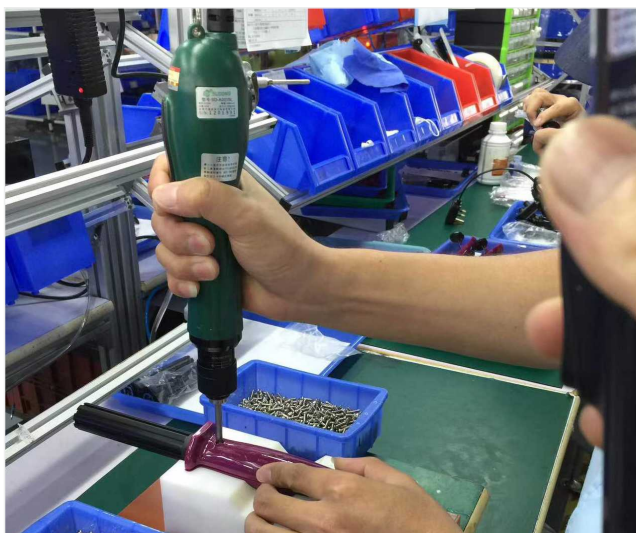
新能源汽车配件 New Energy Vehicle Parts

产品名称：智能型手按式

项目特点：速动无刷电动螺丝刀采用非接触式磁感应开关，没有使用次数显限制，操作舒适安全性高，使用无刷电机，使用过程中不产生火花、高温、碳粉、性能更优越，特别适合长时间连续工作。

Product Name: Intelligent trigger start type

Project Feature: Speed brushless electric screwdriver adopts non-contact magnetic induction switch, there is no use of the number of obvious limitations, the operation is comfortable and safe, the use of brushless motors, the use of the process does not produce sparks, high temperature, carbon powder, superior performance, especially suitable for long-time continuous work.



直发器装配线 Hair Straightener Assembly Line

产品名称：超值型手按式

项目特点：生产过程中，电动螺丝刀不但提高生产速度和产品质量，同时节约了时间和人力成本，速动电动螺丝刀，采用无刷电机，扭力输出稳定，特别适合长时间连续使用，可以快速而准确地完成各种紧固任务，满足客户需求。

Product Name: Super value trigger start type

Project Feature: In the production process, the electric screwdriver not only improves the production speed and product quality, but also saves time and labor costs. The speed electric screwdriver, which adopts a brushless motor and has a stable torque output, is especially suitable for long-time continuous use, and it can quickly and accurately complete a variety of fastening tasks to meet the needs of customers.



电热水壶生产线 Electric Water Pot Production Line

产品名称：超值型手按式

项目特点：当螺丝锁附达到设定扭力时，离合器会自动跳脱，马达会自动断电并及时刹车，让电动螺丝刀停止，在使用中，突破传统体积大、功耗大的缺点，使用中更轻巧、便捷持久、稳定性高，超长寿命，适合长时间连续使用。

Product Name: Super value trigger start type

Project Feature: When the screw lock attached to reach the set torque, the clutch will automatically jump off, the motor will automatically cut off power and brake in time to stop the electric screwdriver. Breakthrough the traditional large size, power consumption shortcomings, the use of more lightweight, convenient and durable, high stability and long life, suitable for long time continuous use. In use breaks through the traditional large size, power consumption shortcomings, the use of more lightweight, convenient and durable, high stability and long life, suitable for long-term continuous use.



塑胶玩具装配生产线 Plastic toy assembly line

产品名称：智能型手按式

项目特点：速动电批内置精密电路板、高质量精工无刷电机、合金齿轮，操作噪音低、振动小，安全性高，持续使用无需保养，多种控制模式适用于各种自动拧紧设备，大扭力输出，屏幕干扰，提高工作效率，是玩具装配产线使用的完美解决方式。

Product Name: Intelligent trigger start type

Project Feature: Speed electric batches built-in precision circuit boards, high-quality Seiko brushless motors, alloy gears, low operating noise, low vibration, high security, continuous use without maintenance, a variety of control modes suitable for a variety of automatic tightening equipment, large torque output, the screen interference, to improve work efficiency, is the perfect solution for the toy assembly line to use!



自动化装配线 Automated assembly lines

产品名称：智能自动机用型

项目特点：可根据自由设定的扭力值进行自动控制，使每个螺丝的紧固力度保持一致。智能驱动，受用于高精密产业，这种精确性的控制可以有效避免因紧固不力或过度而产生的质量问题，提高工作效率。

Product Name: Intelligent auto machine series

Project Feature: It can be automatically controlled according to the freely set torque value, so that the tightening strength of each screw remains consistent. Intelligent drive, used in high-precision industries, this precision control can effectively avoid quality problems due to poor or excessive tightening and improve work efficiency.

通过认证产品

Certification through products



SD - CA 2000 L F D Q ESD

SD:	速动产品 SUDONG Products	
CA:	系列代码 Series code	
A:	无碳刷经济型 Brushless Economic Type	
BC:	无碳刷智能计数一体型 Intelligent Brushless Electric Screwdriver with Counter Compact	
BA:	无碳刷全新标准型 Brushless Brand-new Normal type	
CA:	无碳刷智能型 Brushless Intelligent Type	
2000:	公司自定义型号 Custom Model	
	公司自定义功能代号 Company cusfom function codes	
	启动方式 Start Mode	
L:	手按式 Trigger start type	
P:	下压式 Push start type	
T:	枪型扳手 Gun wrench	
W:	弯角扳手 Angle wrench	
AT:	智能自动机 Intelligent Auto machine series	
	转速代码 Speed code	
F:	快速型 Rapid	
S:	普通型 Normal type	
	起子头型号 Screw Bits Models	
A:	5mm HEX B: 1/4" HEX	
C:	Ø4 D: Ø5	
Q:	带真空吸头 With a Vacuum Suction Part	
ESD:	防静电规格 Anti-static Specifications	
	全系列安全低压供电 All series safe low voltage power supply	

速动电动螺丝刀型号扭力一览表

Sudong electric screwdriver model torque list



类别 Category	型号 Model	扭力范围 (kgf.cm) Torque range	重量 Weight	空载转速 No load speed(r.p.m)	页码 Page
智能计数一体型手按式 Intelligent counter compact trigger-start type	SD-BC2000L	0.1-1.5	340g	500-1000	19
	SD-BC3000L	0.2-3.5		500-1000	
	SD-BC4000L	0.3-6.5		500-1000	
	SD-BC4500L	1-10	540g	500-1000	
	SD-BC4500LF	1-10		1300-2000	
	SD-BC5000L	2-12		500-1000	
	SD-BC5000LF	2-12		1300-2000	
	SD-BC5500L	3-19		500-1000	
	SD-BC5500LF	3-17		1300-2000	
	SD-BC6000L	5-25	680g	500-1000	
	SD-BC6000LF	5-23		1300-2000	
	SD-BC6200L	10-30		500-1000	
	SD-BC6200LF	10-30		1300-2000	
	SD-BC6300L	10-35		450-650	
	SD-BC7000L	15-45		450-650	
	SD-BC7300L	20-50		500-1000	
标准计数一体型手按式 Normal counter compact trigger-start type	SD-BC200L	0.1-1.5	340g	500-1000	21
	SD-BC300L	0.2-3.5		500-1000	
	SD-BC400L	0.3-6.5		500-1000	
	SD-BC450L	1-10	540g	500-1000	
	SD-BC450LF	1-10		1300-2000	
	SD-BC500L	2-12		500-1000	
	SD-BC500LF	2-12		1300-2000	
	SD-BC550L	3-19		500-1000	
	SD-BC550LF	3-17		1300-2000	
	SD-BC600L	5-25	680g	500-1000	
	SD-BC600LF	5-23		1300-2000	
	SD-BC620L	10-30		500-1000	
	SD-BC620LF	10-30		1300-2000	
	SD-BC630L	10-35		450-650	
	SD-BC700L	15-45		450-650	
	SD-BC730L	20-50		500-1000	
智能型手按式 Intelligent hand-press type	SD-CA200L/LF	0.1-1.5	330g	1000/800 1600/1300	22
	SD-CA300L/LF	0.2-3.5		1000/800 1600/1300	
	SD-CA400L/LF	0.3-6.5		1000/800 1600/1300	
	SD-CA450L	1-10	520g	1000/800	
	SD-CA450LF	1-10		2000/1600	
	SD-CA500L	2-12		1000/800	
	SD-CA500LF	2-12		2000/1600	
	SD-CA550L	3-19		1000/800	
	SD-CA550LF	3-17		2000/1600	
	SD-CA600L	5-25	640g	1000/800	
	SD-CA600LF	5-23		2000/1600	
	SD-CA620L	10-30		1000/800	
	SD-CA620LF	10-30		2000	
	SD-CA630L	10-35		650/450	
	SD-CA700L	15-45		650/450	
	SD-CA730L	20-50		1000	
	SD-CA750L	30-70	1300g	800	
	SD-CA800L	40-100		500	
	SD-CA850L	60-150	1400g	350	
	SD-CA860L	80-250		215	
	SD-CA880L	120-350	1800g	155	

类别 Category	型号 Model	扭力范围 (kgf.cm)Torque range	重量 Weight	空载转速 No load speed(r.p.m)	页码 Page		
全新标准型手按式 Brand-new Normal trigger start type	SD- BA200L	0.1-1.5	340g	1000/800	24		
	SD-BA300L	0.2-3.5					
	SD-BA400L	0.3-6.5					
	SD-BA450L/LF	1-10	540g	1000/800 2000/1600			
	SD-BA500L/LF	2-12					
	SD-BA550L/LF	3-19/3-17					
	SD-BA600L/LF	5- 25/23	680g	1000/800 2000			
	SD-BA620L/LF	10-30		650/450			
	SD-BA630L	10-35					
	SD-BA700L	15-45					
SD-BA730L	20-50	1000					
全新标准型下压式 Brand-new Normal push start type	SD-BA450P/PF	1-10	540g	1000/800 2000/1600	24		
	SD-BA500P/PF	2-12					
	SD-BA550P/PF	3-19/3-17					
	SD-BA600P/PF	5-25/23	680g	1000/800			
	SD-BA620P	10-30		1000/800			
	SD-BA630P	10-35		650/450			
	SD-BA700P	15-45					
迷你变速手按式 Mini variable speed trigger start type	SD-A1000L	0.1-1	182g	600-1000	25		
	SD-A1200L	0.2-2		150-350			
	SD-A1000ML	0.1-1					
	SD-A1200ML	0.2-2					
智能自动机用型 Intelligent auto machine series	SD-CA200AT	0.1-1.5	330g	1000/800	26		
	SD-CA300AT	0.2-3.5					
	SD-CA400AT	0.3-6.5					
	SD-CA450AT/FAT	1- 10	520g	1000/800 2000/1600			
	SD-CA500AT/FAT	2-12					
	SD-CA550AT/FAT	3-19					
	SD-CA600AT/FAT	5-25/23	640g	1000/800 2000			
	SD-CA620AT/FAT	10-30		650/450			
	SD-CA630AT	10-35					
	SD-CA700AT	15-45					
	SD-CA730AT	20-50	1000				
	手持螺丝机专用型 Handheld screwdriver special type	SD-CA103LF	0.2-3.5	330g		1600/1300	28
		SD-CA106LF	0.3-6.5			500g	
SD-CA210L		1-10	2000/1600				
SD-CA210LF			1000/800				
SD-CA215L		2-12	2000/1600				
SD-CA215LF			1000/800				
SD-CA219L		3-19					
标准型手按式 Normal trigger start type	SD-A2000L	0.1-1.5	330g	1000/800	29		
	SD-A3000L	0.2-3.5					
	SD-A4000L	0.3-6.5					
	SD-A4500L/LF	1-10	520g	1000/800 2000/1600			
	SD-A5000L/LF	2-12					
	SD-A5500L/LF	3-19/3-17					
	SD- A6000L/LF	5-25/23	650g	1000/800 2000			
	SD-A6200L/LF	10- 30		650/450			
	SD-A6300L	10- 35					
	SD-A7000L	15-45					
	SD-A7300L	20-50	1000				
	SD-A7500L	30-70	1300g	800			
	SD-A8000L	40-100		500			
	SD-A8500L	60-150		350			
	SD-A8600L	80-250	1400g	215			
	SD-A8800L	120-350		155			
	经济型手按式 Economic trigger start type	SD-A200L	0.1-1.5	450g		1000/800	30
SD-A300L		0.2-3.5					
SD-A400L		0.3-6.5					
SD-A450L/LF		1-10	650g	1000/800 2000/1600			
SD-A500L/LF		2-12					
SD-A550L/LF		3-19/3-17					
SD-A600L/LF		5-25/23	780g	1000/800			
SD-A620L		10-30					
SD-A630L		10-35					
SD-A700L		15-45		650/450			

注：扭矩单位转换：1kgf.cm=0.098N.m 1kgf.cm=0.868Lbf.in

Note: Torque unit conversion: 1kgf. cm=0. 098N. m 1kgf. cm=0. 868Lbf. in



速动电动螺丝刀型号扭力一览表

Sudong electric screwdriver model torque list



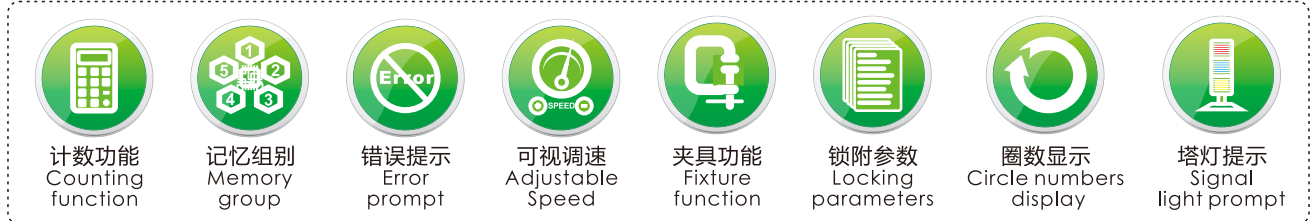
类别 Category	型号 Model	扭力范围 (kgf.cm)Torque range	重量 Weight	空载转速 No load speed(r.p.m)	页码 Page
超值型手按式 Super Value trigger start type	SD- A0235L/LF	0.2-3.5	450g	350-1000 700-2000	31
	SD- A0365L/LF	0.3-6.5			
	SD-A1010L/LF	1-10	630g	350-1000	
	SD- A2015L/LF	2-15			
	SD- A3019L	3-19			
	SD-A5025L	5-25	740g	1000	
枪型系列 Gun type series	SD-TBC25L/LF	5-25/23	750g	1000/2000	32
	SD-TBC30L/LF	10-30		650	
	SD-TBC35L	10-35			
	SD-TBC45L	15-45			
	SD-TBC50L	20-50			
	SD-TBC70L	30-70	1300g	800	
	SD-TBC100L	40-100		500	
	SD-TBC150L	60-150		1400g	
	SD-TBC250L	100-250	215		
	SD-TBC350L	120-350	1800g	155	
	SD-TA25L/LF	5-25/23	750g	1000/2000	33
	SD-TA30L/LF	10-30		650	
	SD-TA35L	10-35			
	SD-TA45L	15- 45			
	SD-TA50L	20-50			
	SD-TA70L	30-70	1300g	800	
	SD-TA100L	40-100		500	
	SD-TA150L	60-150		1400g	
	SD-TA250L	100-250	215		
	SD-TA350L	120-350	1800g	155	
无线充电式枪型 Wireless rechargeable gun type	SD-TBC25Li	5-25	750g	1000	34
	SD-TBC25FLi	5-23		2000	
	SD-TBC30Li	10-30		1000	
	SD-TBC30FLi	10-30		2000	
	SD-TBC35Li	10-35		650	
	SD-TBC45Li	15-45		650	
	SD-TBC50Li	20-50		1000	
	SD-TBC70Li	30-70	1300g	800	
	SD-TBC100Li	40-100		500	
	SD-TBC150Li	60-150	1400g	350	
	SD-TBC250Li	80-250		215	
	SD-TBC350Li	120-350	1800g	155	
	SD-TA25Li	5-25	750g	1000	36
	SD-TA25FLi	5-23		2000	
	SD-TA30Li	10-30		1000	
	SD-TA30FLi	10-30		2000	
	SD-TA35Li	10-35		650	
	SD-TA45Li	15-45		650	
	SD-TA50Li	20-50		1000	
	SD-TA70Li	30-70	1300g	800	
	SD-TA100Li	40-100		500	
	SD-TA150Li	60-150	1400g	350	
	SD-TA250Li	80-250		215	
	SD-TA350Li	120-350	1800g	155	

注：扭矩单位转换：1kgf.cm=0.098N.m 1kgf.cm=0.868Lbf.in
 Note: Torque unit conversion: 1kgf. cm=0. 098N. m 1kgf. cm=0. 868Lbf. in

⚠ 本目录内容会有因产品改良而变更的可能性，恕不另行通知
 The contents of this catalog may be changed due to product improvement without notice

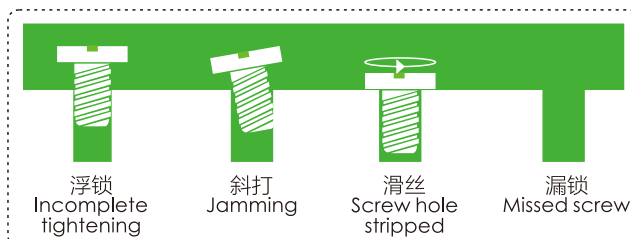


机型特点 Model Features



- 按需锁附的产品螺丝数量来设置计数器，有效防止漏锁螺丝，提高装配质量。
Setting the counter according to the number of screw to be locked on demand, can effectively prevent screw missed tightening and improve the assembly quality of the product.
- 可设置5个单独的锁附组别，更换锁附产品时无需重新设置参数，在系统里调取对应的组别，提高生产效率。
Five separate locking groups can be set up. No need to reset parameters when changing locking products. The corresponding groups can be retrieved in the system to improve production efficiency.
- 多种锁附参数自由设置，为产品定制专属的锁附模式，让装配作业拥有灵活多样的操作。
Various locking parameters are set freely, and the exclusive locking mode is customized for the product, so that the assembly operation can be flexible and diversified.
- 可按照不同的锁附要求来设置转速，500-1000(1300-2000)转自由设定，实现一机多用，减少生产成本。
The speed can be set according to different locking requirements, 500-1000(1300-2000) rpm free setting, to achieve multi-use of one machine and reduce production costs.
- 可外接红外感应器，控制夹具开关，让锁附更智能，通过LED提示灯，让使用者直观了解螺丝的锁附状态，有效降低人为或机械操作错误。
External infrared sensor can be connected to control the Fixture switch to make the locking job more intelligent. Through the LED prompt lamp, users can intuitively understand the screw locking status, effectively reducing human or mechanical operation errors.

错误预防 Error prevention



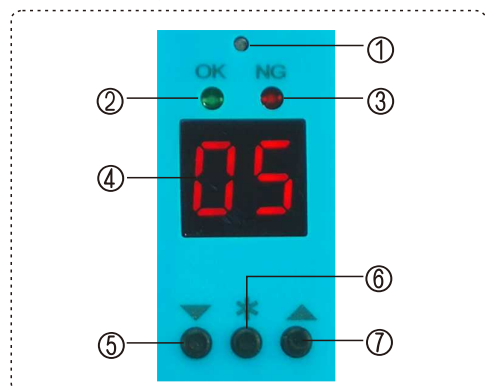
通过系统来设置预定的旋转圈数，由系统自动判定锁附状态，有效帮助使用者确认螺丝有无锁附完整、浮锁、滑丝等不良情况。
The number of rotations can be preset through the system, then the system automatically determines the locking status. It can effectively help users to confirm whether the screw has complete tightening, floating lock, sliding wire and other bad conditions.

智能计数一体型手按式

Intelligent counter compact trigger-start type



计数面板规格 Screw counter panel specification



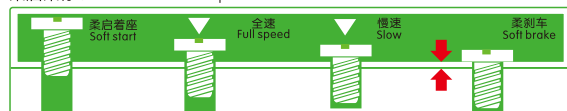
NO.	名称 Name	功能 Function
1	蜂鸣器 Buzzer	警示音与设定确认音 Warning sound and setting confirmation sound
2	绿色LED Green LED	待机模式, 判定工作正常(OK),取消计数功能。 Standby mode ,judge work normally (OK),cancel screw counting function
3	红色LED Red LED	警示功能, 判定工作不正常(NG) Warning function,judge work abnormally(NG)
4	数码管显示 Digital Display	显示设定值, 设定螺丝次数或其他设定值。 Display setting value,set screw numbers or other values
5	DOWN下选键 Down button	在系统设置界面时, 此键为减少数值。 In the systm setting interface ,the button is to minus value
6	SELECT设定键 Select button	长按三秒, 进入系统设置界面。 Long press for 3 seconds ,get into the system setting interface
7	UP上选键 Up button	在系统设置界面时, 此键为增加数值。 In the system setting interface ,the button is to increase value

计数器功能 Screw counter functions

功能名称 Function name	设置时间及数值 Time setting and value	功能说明 Function description
Sl:记忆组别 Sl:Memory group	01-05	5个单独设置的组别(非循环式) 5 individual setting groups (Acyclic mode)
SC:计数功能 Sc:Screw counting function	1-99	按产品螺丝数量而定的数值 The value is set based on product screw numbers
AT:流程完成回复时间 At:Process completed reply time	0.1-9.9秒 0.1-9.9 s	流程完成后计数器回到设定数值的时间, AUTO.I信号输出时间 The time of screw counter back to set value after a process is completed
HR:螺丝滑牙圈数 Hr:Screw slippage laps	1-99圈 1-99 laps	电动螺丝刀启动后, 达到设定圈数未停机即提示错误, 可检测螺丝滑牙。 After startup,screw driver reach up the preset laps,but not stop,that prompt error,can be used for screw slippage detection
LR:浮动螺丝圈数 Lr:Floating lock laps	1-99圈 1-99 laps	电动螺丝刀启动后, 未达到设定圈数停机即提示错误可检测螺丝浮打。 After startup,screw driver reach up the preset laps,but not stop,that prompt error.can be used for screw floating lock detection
SP:转速设置 Sp:Rotation speed setting	5.0-10	设定参数的100倍等于实际数值 The actual value = the set parameter*100
BR:反转圈数 Br:Reversion laps	0- 99圈 1-99 laps	电动螺丝刀到达设定扭力后,自动反转螺丝圈数。 Screw laps of automatical reversion,after screw driver reach up to the preset torque
ST:柔启动 St:Soft start	0-90	0为关闭柔启动功能, 1为柔启动最慢, 90为最快。 0 is to close soft start function,1 is the slowest, 90 is the fastest
SB:柔刹车 Sb:Soft brake	0-90	0为关闭柔刹车功能, 1为柔刹车最慢, 90为最快。 0 is to close soft brake function,1 is the slowest,90 is the fastest
PR:预备角度 Pr:Preparatory angle	0-99圈 0-99 laps	电批咀与螺丝头着座前所需的空转圈数 The required noload turning laps before screwdriver bit match screw head seat
LI:单个完成 Li:Individual complete	0.01-9.9秒 0.01-9.9 s	单个锁附完成后数码管显示数值变化的时间 The value changing time of digital display after completing individual lock
DT:待命时间 Dt:Interval time	0-99秒 0-99 s	完成单个螺丝锁附与再次启动的时间设置, 0为关闭该功能 The time setting between individual screw lock completion and restart,0 is to close this function
U:夹具动作延时 Ut:Clamp fixture action delay time	0.1-9.9秒 0.1-9.9 s	当待锁附产品靠近红外传感器时,延时夹具动作时间。 When products to be locked get close to infrared sensor,the delay time setting of clamp fixture action
RT:待机时间 Rt:Standby time	5-30分 5-30 mins	电动螺丝刀进入待机状态是时间设置设为0则不会进入待机状态 The time setting after screwdriver get into auto sleep mode,0 is not get into the auto sleep mode
LE:显示锁附圈数 Le:Display screw fastening laps	00/01	00为关闭显示圈数, 01为显示圈数。 00 is to close displaying laps,01 is to display laps
PS:红外检测 Ps:Infrared detection	00-02	00为关闭红外传感器,01/02为开启红外传感器。 00 is to close infrared sensor,01/02 are to open infrared sensor
Bp:警示声 Bp: Warning sound	00-01-02-03	[00]锁附每个螺丝、工作完成、错误操作会发出声响警示操作人员。 [00] Sound warning operator after locking each screw,job completion and error operation [01]错误操作会发出声响警示 [01] Sound warning after error operation [02]工作完成、错误操作会发出声响警示。 [02] Sound warning after job completion and error operation n [03]每锁附一个螺丝与工作结束会发出声响警示,错误操作不发声。 [03] Sound warning after locking each screw and job completion,no warning sound when error operation
En:错误设置 En:Error setting	-	错误设置蜂鸣器会发出声响警示, 如:Lr>Hr Buzzer will alarm, when error setting,such as:Lr>Hr
CL:循环数 CL cycles	01-05	[01]为不循环, 只执行当前选定的组别 [01] is no cycle, only the currently selected group is executed [02-05]执行循环, 从第一组开始循环, 如循环数为 3, 即从第一组到第三组循环执行 [02-05] execute the cycle, starting from the first group. If the number of cycles is 3, execute the cycle from the first group to the third group
HP:正转锁附圈数 HP forward lock number of turns	01-99	当参数设定不为 0 时, 执行正转锁附设定的圈数电机即刻停止转动, 并计螺丝锁附数目(固定倒数) When the parameter setting is not 0, the motor that executes the set number of turns of forward rotation locking will immediately stop rotating and count the number of screw locking (fixed reciprocal)
LP:反转锁附圈数 LP reverse lock attachment number	01-99	当参数设定不为 0 时, 执行反转锁附设定的圈数电机即刻停止转动, 不计螺丝锁附数目 When the parameter setting is not 0, the motor that executes the set number of turns of reverse locking will immediately stop rotating, regardless of the number of screw locking
CC:密码设置 CC password setting	01-99	进入设置参数系统时先输入密码, 输入错误是返回主界面 When entering the parameter setting system, enter the password first.If the error is entered, return to the main interface

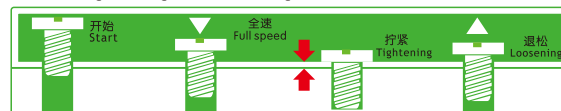
特殊锁附功能演示 Special locking function demonstration

柔启柔停 Soft start and stop



柔启动功能防止损坏螺丝顶端, 更准确地着座, 有效防止螺丝刮花产品。
Soft start function to prevent damage the top of screw more accurately matching screw seat, effectively prevent products from screw scratch.

拧紧退松 Tightening and loosening



针对特殊的产品可设置电动螺丝刀在到达设定扭力后, 自动反转螺丝圈数。
As for some special products, can set the number of screw laps for Auto Reverse after electric screwdriver reach up to the preset torque.

标准配件 Standard accessories

型号 Model	SD-BC2000L SD-BC3000L SD-BC3000L	SD-BC4500L SD-BC 4500LF SD-BC 4500LF	SD-BC5000L SD-BC 5500L SD-BC 5500LF	SD-BC6000L/LF SD-BC6200L/LF SD-BC6300L	SD-BC7000L SD-BC7300L
电源适配器 Power adapter	SD-30V75W-8P	SD-30V75W-8P	SD-30V75W-8P	SD-30V75W-8P	SD-30V75W-8P
连接线 Cable	SD-8P	SD-8P	SD-8P	SD-8P	SD-8P
电批吊簧 Suspension spring	1.0*9*290	1.0*9*290	1.0*9*290	1.0*9*290	1.0*9*290
起子头 Screwdriver bits	Ø4x40xØ 2.5x20x1 Ø4x40xØ 2.5x20x0	Ø5x60x1# Ø5x60x2#	Ø5x60x1# Ø5x60x2#	SSH1x65x1# SSH1x65x2#	SSH1x65x1# SSH1x65x2#

注:每种配件出厂标配数量为1个

Note:Factory provides only one piece as the standard quantity for each kind of accessory

可选购配件 Optional accessories

型号 Model	SD-BC2000L SD-BC3000L SD-BC4000L	SD-BC4500L SD-BC4500LF SD-BC 5000LF	SD-BC5000L SD-BC 5500L SD-BC 5500LF	SD-BC6000L/LF SD-BC6200L/LF SD-BC6300L	SD-BC7000L SD-BC7300L
真空吸头 Vacuum suction nozzle	SD- Q1	SD- Q2	SD- Q3	SD- Q3	SD- Q3
90度转接头 90 degree connector	—	SDL-1/SDL-1A	SDL-2/SDL-2A	SDL-2/SDL-2A	SDL-2/SDL-2A
扭力保护套 Torque protective sleeve	SU-U1/SD-UT1	SU-U2/SD-UT2	SU-U3/SD-UT3	SU-U3/SD-UT3	SU-U3/SD-UT3
电批插座 Screwdriver socket	SD-K2	SD-K3	SD-K4	SD-K4	SD-K4
红外光耦 IR optocoupler	PNP	PNP	PNP	PNP	PNP

技术参数 Technical parameters

型号 Model	扭力范围 Torque Range		空载转速 No load speed (r. p. m)	输入电压 Input voltage	重量 Weight(g)	标准批头 Screw bit		
	kgf.cm	N.m						
SD-BC2000L	0.1-1.5	0.01-0.15	500-1000	30V	340	Ø4mm		
SD-BC3000L	0.2-3.5	0.02-0.34						
SD-BC4000L	0.3-6.5	0.03-0.63						
SD-BC4500L	1-10	0.1-1	500-1000		540	Ø5mm		
SD-BC4500LF			1300-2000					
SD-BC5000L	2-12	0.2-1.18	500-1000					
SD-BC5000LF			1300-2000					
SD-BC5500L	3-19	0.29-1.86	500-1000					
SD-BC5500LF	3-17	0.29-1.66	1300-2000					
SD-BC6000L	5-25	0.5-2.45	500-1000				680	1/4-Hex
SD-BC6000LF	5-23	0.5-2.25	1300-2000					
SD-BC6200L	10-30	0.98-2.94	500-1000					
SD-BC6200LF			1300-2000					
SD-BC6300L	10-35	0.98-3.43	450-650					
SD-BC7000L	15-45	1.47-4.41						
SD-BC7300L	20-50	1.96-4.9	500-1000					

可选输出端起子头规格
Optional specification of screwdriver bits



标准计数一体型手按式

Normal counter compact trigger-start type



电源适配器 Power adapter



机型特点 Model Features



计数功能
Counting
function



记忆组别
Memory
group



错误提示
Error
prompt



可视调速
Adjustable
Speed



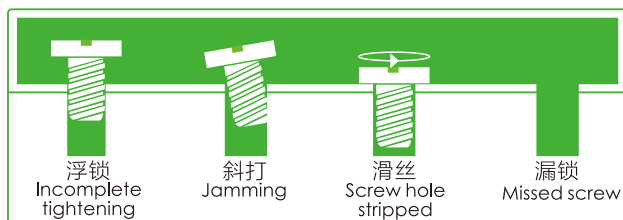
锁附参数
Locking
parameters



圈数显示
Circle numbers
display

- 按需锁附的产品螺丝数量来设置计数器，有效防止漏锁螺丝，提高装配质量。
Setting the counter according to the number of screw to be locked on demand, can effectively prevent screw missed tightening and improve the assembly quality of the product.
- 可设置5个单独的锁附组别，更换锁附产品时无需重新设置参数，在系统里调取对应的组别，提高生产效率。
Five separate locking groups can be set up. No need to reset parameters when changing locking products. The corresponding groups can be retrieved in the system to improve production efficiency.
- 多种锁附参数自由设置，为产品定制专属的锁附模式，让装配作业拥有灵活多样的操作。
Various locking parameters are set freely, and the exclusive locking mode is customized for the product, so that the assembly operation can be flexible and diversified.
- 可按照不同的锁附要求来设置转速，500-1000(1300-2000)转自由设定，实现一机多用，减少生产成本。
The speed can be set according to different locking requirements, 500-1000(1300-2000) rpm free setting, to achieve multi-use of one machine and reduce production costs.

错误预防 Error prevention



通过系统来设置预定的旋转圈数，由系统自动判定锁附状态，有效帮助用户确认螺丝有无锁附完整、浮锁、滑丝等不良情况。
The number of rotations can be preset through the system, then the system automatically determines the locking status. It can effectively help users to confirm whether the screw has complete tightening, floating lock, sliding wire and other bad conditions.

特殊锁附功能演示 Special lock function demonstration

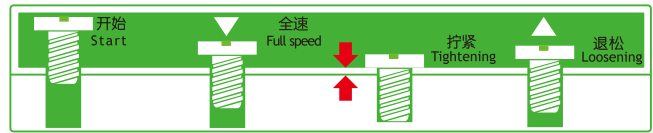
柔启柔停 Soft start and stop



柔启动功能防止损坏螺丝顶端，更准确地着座，有效防止螺丝刮花产品。
Soft start function to prevent damage the top of screw more accurately matching screw seat, effectively prevent products from screw scratch.

柔刹车功能将离合器分离时的冲击减到最小，适合高精密的锁附作业。
Soft brake function minimize the impact of clutch's breakaway, suitable for high precision lock jobs.

拧紧退松 Tightening and loosening



针对特殊的产品可设置电动螺丝刀在到达设定扭力后，自动反转螺丝圈数。
As for some special products, can set the number of screwlaps for AutoReverse after electric screwdriver reach up to the preset torque.

As for some special products, can set the number of screwlaps for AutoReverse after electric screwdriver reach up to the preset torque.

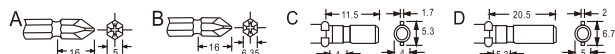
可选购配件 Optional accessories

型号 Model	SD- BC200L SD- BC300L SD- BC400L	SD- BC450L SD- BC450LF SD- BC 500LF	SD- BC 500LF SD- BC 550L SD- BC 550LF	SD- BC600L/LF SD- BC620L/LF SD- BC630L	SD- BC700L SD- BC730L
真空吸头 Vacuum suction nozzle	SD- Q1	SD- Q2	SD- Q3		
90度转接头 90 degree connector	—	SDL-1/SDL-1A	SDL-2/SDL-2A		
扭力保护套 Torque protective sleeve	SU-U1/SD-UT1	SU-U2/SD-UT2	SU-U3/SD-UT3		
电批插座 Screwdriver socket	SD-K2	SD-K3	SD-K4		

技术参数 Technical parameters

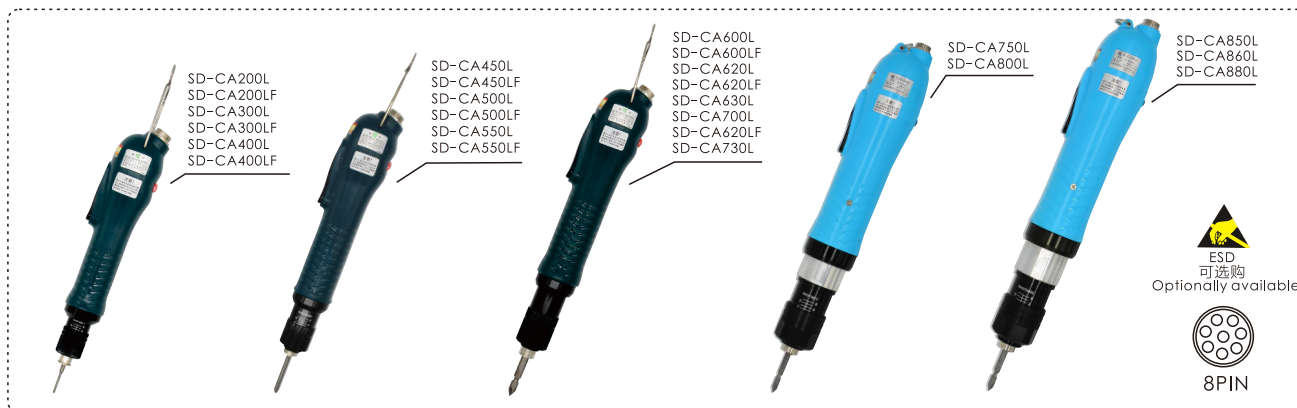
型号 Model	扭力范围 torque Range		空载转速 No load speed (r. p. m)	输入电压 Input voltage	重量 Weight(g)	标准批头 Screw bit
	kgf.cm	N.m				
SD-BC200L	0.1-1.5	0.01-0.15	500-1000	30V	340	Ø4mm
SD-BC300L	0.2-3.5	0.02-0.34				
SD-BC400L	0.3-6.5	0.03-0.63				
SD-BC450L	1-10	0.1-1	1300-2000		540	Ø5mm
SD-BC450LF			500-1000			
SD-BC500L	2-12	0.2-1.18	1300-2000			
SD-BC500LF			500-1000			
SD-BC550L	3-19	0.29-1.86	1300-2000			
SD-BC550LF			500-1000			
SD-BC600L	5-25	0.5-2.45	1300-2000		680	1/4-Hex
SD-BC600LF			500-1000			
SD-BC620L	10-30	0.98-2.94	1300-2000			
SD-BC620LF			500-1000			
SD-BC630L	10-35	0.98-3.43	450-650			
SD-BC700L			500-1000			
SD-BC730L	20-50	1.96-4.9				

可选输出端起子头规格
Optional specification of screwdriver bits



智能型手按式

Intelligent hand-press type



机型特点 Model Features



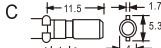
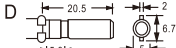
电源适配器 Power adapter



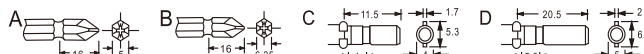
SD-30V60W-8P

SD-30V200W-3P

技术参数 Technical parameters

型 号 Model	扭力范围 Measuring Range		空载转速 No load speed (r. p. m)		输入电压 Input voltage	重量 Weight(g)	标准批头 Screw bit
	kgf.cm	N.m	HI	LO			
SD-CA200L	0.1-1.5	0.01-0.15	1000	800	30V	330	Ø4mm
SD-CA200LF			1600	1300			
SD-CA300L			1000	800			
SD-CA300LF	0.2-3.5	0.02-0.34	1600	1300			
SD-CA400L			1000	800			
SD-CA400LF	0.3-6.5	0.03-0.63	1600	1300			
SD-CA450L			1000	800			
SD-CA450LF	1-10	0.1-1	2000	1600		520	Ø5mm
SD-CA500L			1000	800			
SD-CA500LF			2000	1600			
SD-CA550L	3-19	0.29-1.86	1000	800			
SD-CA550LF			2000	1600			
SD-CA600L	5-25	0.5-2.45	1000	800			
SD-CA600LF			2000	1600			
SD-CA620L	10-30	0.98-2.94	2000	—		640	1/4-Hex
SD-CA620LF			—	—			
SD-CA630L	10-35	0.98-3.43	650	450			
SD-CA700L	15- 45	1.47- 4.41					
SD-CA730L	20-50	1.96-4.9	1000				
SD-CA750L	30-70	2.94-6.86	800				
SD-CA800L	40-100	3.92-9.8	500				
SD-CA850L	60-150	5.88-14.7	350	—			
SD-CA860L	80-250	7.84-24.5	215				
SD-CA880L	120-350	11.8-34.3	155				
可选输出端子头规格 Optional specification of screwdriver bits							
A  B  C  D 							

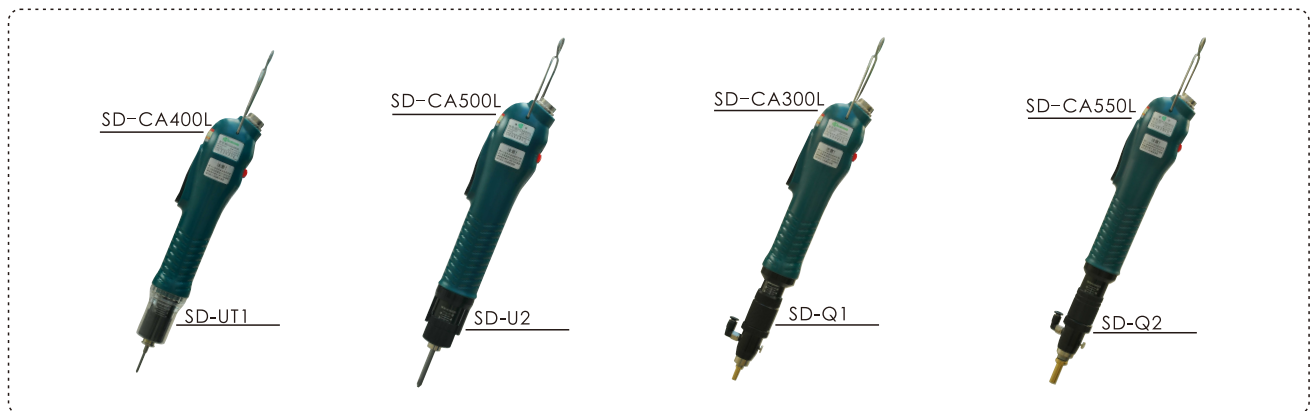
可选输出端子头规格
Optional specification of screwdriver bits



配件应用 Accessory and attachment application



- 多种控制模式适用于各种自动拧紧设备。
Various control modes are suitable for various automatic tightening equipment.
- 无需改装或增加配件，连接控制器直接使用。
No need to modify or expand accessories, just connect with the power controller to use directly.
- 采用协议通讯与设备连接，有效屏蔽干扰信号。
Using protocol communication to connect with devices to effectively shield interference signals.
- 全新设计的一体式电源信号控制器，使用端子接线，确保无间断连接。
The newly designed integrated power signal controller uses terminal wiring to ensure an continuous connection.



标准配件 Standard accessories

型号 Model	SD-CA200L SD-CA300L SD-CA400L	SD-CA450L SD-CA500LF SD-CA450LF SD-CA550L SD-CA500L SD-CA550LF	SD-CA600L SD-CA630L SD-CA600LF SD-CA700L SD-CA620L	SD-CA620LF SD-CA750L SD-CA730L	SD-CA800L SD-CA850L SD-CA860L SD-CA880L
电源适配器 Power adapter	SD-30V60W-8P	SD-30V60W-8P	SD-30V60W-8P	SD-30V120W-3P	SD-30V200W-3P
连接线 Cable	SD-8P	SD-8P	SD-8P	SD-3P	SD-3P
电批吊簧 Suspension spring	1.0*9*290	1.0*9*290	1.0*9*290	1.0*9*290	1.0*9*290
起子头 Screwdriver bits	ø4x40xø2.5x20x1# ø4x40xø2.5x20x0#	ø5x60x1# ø5x60x2#	SSH1/4x65x1# SSH1/4x65x2#	SSH1/4x65x1# SSH1/4x65x2#	SSH1/4x65x1# SSH1/4x65x2#

注:每种配件出厂标配数量为1个

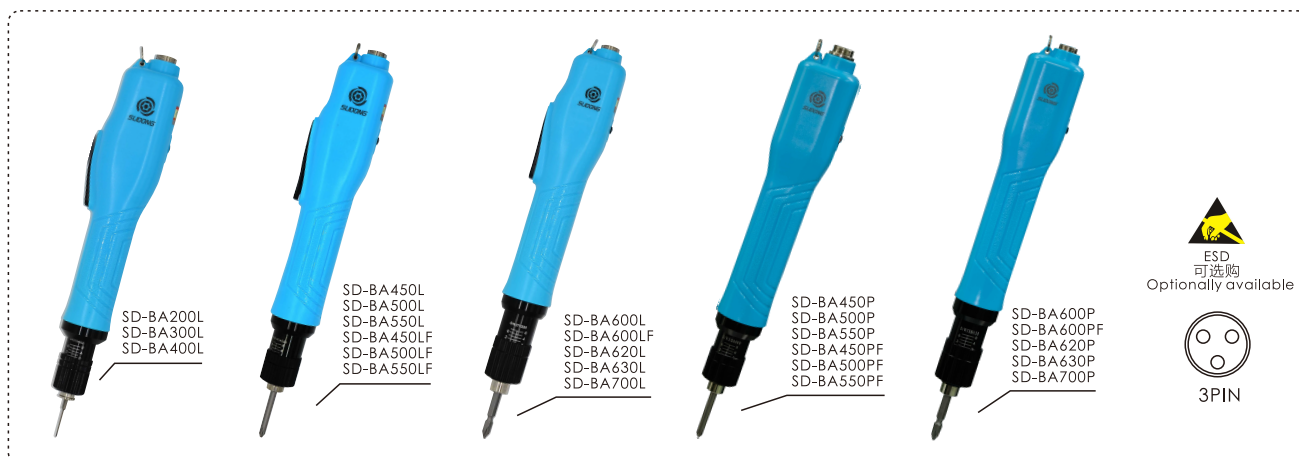
Note: Factory provides only one piece as the standard quantity for each kind of accessory.

可选购配件 Optional accessories

型号 Model	SD-CA200L SD-CA300L SD-CA400L	SD-CA450L SD-CA500LF SD-CA450LF SD-CA550L SD-CA500L SD-CA550LF	SD-CA600L SD-CA630L SD-CA600LF SD-CA700L SD-CA620L SD-CA730L	SD-CA750L SD-CA800L SD-CA850L	SD-CA860L SD-CA880L
真空吸头 Vacuum suction nozzle	SD- Q1	SD- Q2	SD- Q3	—	—
90度转接头 90 degree connector	—	SDL-1/SDL-1A	SDL-2/SDL-2A	SDL-3A-W	—
扭力保护套 Torque protective sleeve	SU-U1/SD-UT1	SU-U2/SD-UT2	SU-U3/SD-UT3	—	—
电批插座 Screwdriver socket	SD-K2	SD-K3	SD-K4	—	—

全新标准型系列

Brand-new normal series



机型特点 Model Features



电源适配器 Power adapter

SD-30V40W-3P

SD-30V60W-3P

SD-30V200W-3P



技术参数 Technical parameters

型号 Model	扭力范围 Torque Range		空载转速 No load speed(r.p.m)		输入电压 Input voltage	重量 Weight(g)	标准批头 Screw bit
	Kgf.cm	N.m	HI	LO			
SD-BA200L	0.1-1.5	0.01-0.15	1000	800	30V	340	Ø4mm
SD-BA300L	0.2-3.5	0.02-0.34					
SD-BA400L	0.3-6.5	0.03-0.63					
SD-BA450L/P	1-10	0.1-1	2000	1600		540	Ø5mm
SD-BA450LF/PF							
SD-BA500L/P	2-12	0.2-1.18	1000	800			
SD-BA500LF/PF			2000	1600			
SD-BA550L/P	3-19	0.29-1.86	1000	800			
SD-BA550LF/PF	3-17	0.29-1.66	2000	1600			
SD-BA600L /P	5-25	0.5-2.45	1000	800			
SD-BA600LF/PF	5-23	0.5-2.25	2000	1600			
SD-BA620L/P	10-30	0.98-2.94	1000	800			
SD-BA620LF			2000	——			
SD-BA630L/P	10-35	0.98-3.43	650	450			
SD-BA700L /P	15-45	1.47-4.41					
SD-BA730L	20-50	1.96-4.9	1000	——			

可选输出端起子头规格
Optional specification of screwdriver bits



可选购配件 Optional accessories

型号 Model	SD-BA200L SD-BA300L SD-BA400L	SD-BA450L SD-BA500L SD-BA550L	SD-BA500LF SD-BA550L SD-BA550LF	SD-BA450P SD-BA450PF SD-BA500P SD-BA550PF	SD-BA500PF SD-BA550P SD-BA550PF	SD-BA600L SD-BA600LF SD-BA620L SD-BA700L SD-BA730L	SD-BA600P SD-BA600PF SD-BA630P SD-BA700P
真空吸头 Vacuum suction nozzle	SD-Q1	SD-Q2	SD-Q2	SD-Q2	SD-Q3	SD-Q3	SD-Q3
90度转接头 90 degree connector	—	SDL-1/SDL-1A	—	—	SDL-2/SDL-2A	—	—
扭力保护套 Torque protective sleeve	SD- U1/SD-UT1	SD-U2/SD-UT2	SD-U2/SD-UT2	SD-U2/SD-UT2	SD-U3/SD-UT3	SD-U3/SD-UT3	SD-U3/SD-UT3
电批插座 Screwdriver socket	SD-K2	SD-K3	SD-K3	SD-K3	SD-K4	SD-K4	SD-K4

⚠ 本目录内容会有因产品改良而变更的可能性，恕不另行通知
The contents of this catalog may be changed due to product improvement without notice



SD-A1000L
SD-A1200L
SD-A1000ML
SD-A1200ML

ESD
可選購
Optionally available

3PIN

电源适配器
Power adapter

SD-30V 40W-3P



机型特点 Model Features



性能电机
High performance Motor



一键反转
Onekey inversion



轻巧设计
Light weight design



五段定速
Five-section constant speed

调速示意图 Speed adjustment diagram



- 五段转速自由设定，扭矩恒定，适合不同范围的精密拧紧作业。
Five-section speed can be set freely, and the torque is constant. It is suitable for precision fastening operations in different ranges. High-performance low-voltage brushless motor is used and produces no dust, low noise and durability.
- 采用高性能低压无碳刷电机，不会产生粉尘，低噪音，耐久性，不需保养，符合环保要求。
Maintenance is not necessary, meeting the environmental requirements.
- 符合人体工程尺寸，耐温，振动小，好握，外观新颖，轻巧，操作简单方便，手握起子长时间使用不疲劳，提高工作效率。
Ergonomic size, high temperature durable, weak vibration, good grip, new appearance, light weight, easy to operate for a long time without fatigue, improve efficiency.
- 扭力低至0.1kgf.cm-1.0kgf.cm和0.15kgf.cm-2.0kgf.cm两种机型，适合高精产业，例如手机手表、光驱、IT数码产品等。
Torque can be adjust as low as 0.1kgf.cm-1.0kgf.cm and 0.15kgf.cm-2.0kgf.cm two models, suitable for high-precision industries, such as mobile phones, watches, optical drivers, IT digital products, etc.

技术参数 Technical parameters

型号 Model	扭力范围 torque Range		空载转速 No load speed(r. p. m)	输入电压 Input voltage	重量 Weight(g)	标准批头 Screw bit
	Kgf.cm	N.m				
SD-A1000L	0.1-1.0	0.01-0.1	600-1000	30V	182	Ø4mm
SD-A1200L	0.2-2.0	0.019-0.2				
SD-A1000ML	0.1-1.0	0.01-0.1	150-350			
SD-A1200ML	0.2-2.0	0.019-0.2				

可选购配件 Optional accessories

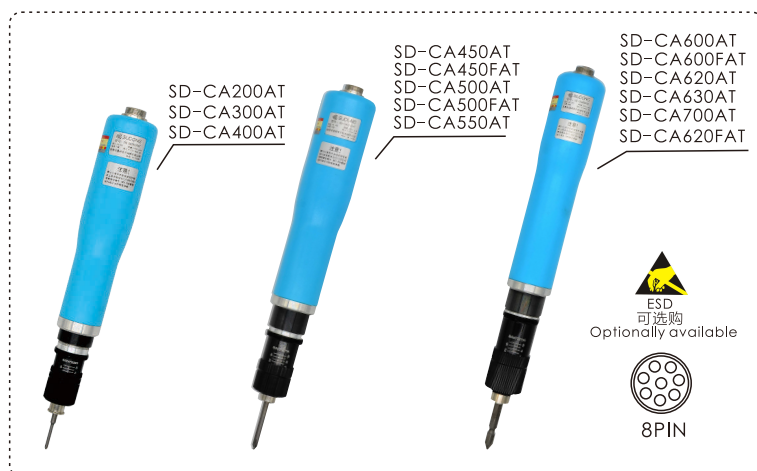
型号 Model	SD-A1000L SD-A1200L	SD-A1000ML SD-A1200ML
真空吸头 Vacuum suction nozzle	SD-Q1mini	
90度转接头 90 degree connector	—	
扭力保护套 Torque protective sleeve	SD-UT1mini	
电批插座 Screwdriver socket	SD-K1	

标准配件 Standard accessories

型号 Model	SD-A1000L SD-A1200L	SD-A1000ML SD-A1200ML
电源适配器 Power adapter	SD-30V 40W-3P	
连接线 Cable	SD-3P	
电源线 Power cord	国标梅花尾 National plum blossom tail	
电批吊簧 Suspension spring	1.0*9*290	
起子头 Screwdriver bits	Ø4x40xØ 2.5x20x1 # Ø4x40xØ 2.5x20x0 #	

注:每种配件出厂标配数量为1个

Note:Factory provides only one piece as the standard quantity for each kind of accessory



电源适配器
Power adapter



机型特点 Model Features



信号输出
Signal output



外部控制
External control



智能驱动
Intelligent drive



分体连接
Separate connection



性能电机
High performance Motor



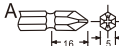
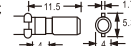
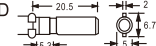
简易安装
Easy installation



屏蔽干扰
Shielding interference

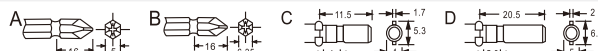
- 多种控制模式适用于各种自动拧紧设备。
Various control modes are suitable for various automatic tightening equipment.
- 无需改装或增加配件，连接控制器直接使用。
No need to modify or expand accessories, just connect with the power controller to use directly.
- 采用协议通讯与设备连接，有效屏蔽干扰信号。
Using protocol communication to connect with devices to effectively shield interference signals.
- 全新设计的一体式电源信号控制器，使用端子接线，确保无间断连接。
The newly designed integrated power signal controller uses terminal wiring to ensure an continuous connection.

技术参数 Technical parameters

型号 Model	扭力范围 Torque Range		空载转速 No load speed(r. p. m)		输入电压 Input voltage	重量 Weight(g)	标准批头 Screw bit
	Kgf.cm	N.m	HI	LO			
SD-CA200AT	0.1-1.5	0.01-0.15	1000	800	30V	330	Ø4mm
SD-CA300AT	0.2-3.5	0.02-0.34					
SD-CA400AT	0.3-6.5	0.03-0.63					
SD-CA450AT	1-10	0.1-1	2000	1600		520	Ø5mm
SD-CA450FAT							
SD-CA500AT	2-12	0.2-1.18	1000	800			
SD-CA500FAT			2000	1600			
SD-CA550AT	3-19	0.29-1.86	1000	800			
SD-CA550FAT			2000	1600			
SD-CA600AT	5- 25	0.5-2.45	1000	800			
SD-CA600FAT	5- 23	0.5-2.25	2000	1600			
SD-CA620AT	10-30	0.98-2.94	1000	800			
SD-CA620FAT			2000	——			
SD-CA630AT	10-35	0.98-3.43	650	450			
SD-CA700AT	15-45	1. 47-4.41					
SD-CA730AT	20-50	1.96-4.9	1000	——			
可选输出端起子头规格 Optional output terminal screwdriver head specifications							
A  B  C  D 							

可选输出端子起子头规格

Optional output terminal screwdriver head specifications



应用 Application



电源技术参数 Technical parameters of power supply

型号 Model	输出功率 Output power	输出电压 Output voltage	输入电压 Input voltage	额定电流 Rated current	重量(g) Weight (g)	尺寸(mm) Dimension (mm)	输出端子 Output terminal
SD-30V60W-8P	60W	DC24V/DC30V	AC 110V-AC 260V	2A	280	168x70x38	8PIN
SD-30V200W-3P	200W	DC30V		3.5A	700	210x80x52	3PIN

标准配件 Standard accessories

型号 Model	SD-CA200AT SD-CA300AT SD-CA400AT	SD-CA450AT SD-CA450FAT SD-CA500AT	SD-CA500FAT SD-CA550AT SD-CA550FAT	SD-CA600AT SD-CA600FAT SD-CA620AT	SD-CA630AT SD-CA700AT	SD-CA620FAT SD-CA730AT
电源适配器 Power adapter	SD-30V60W-8P	SD-30V60W-8P	SD-30V60W-8P	SD-30V60W-8P	SD-30V120W-3P	SD-30V120W-3P
连接线 Cable	SD-8P	SD-8P	SD-8P	SD-8P	SD-3P	SD-3P
电源线 Power cord	国标品字尾 National standard three square pins tail	国标品字尾 National standard three square pins tail	国标品字尾 National standard three square pins tail	国标品字尾 National standard three square pins tail	国标品字尾 National standard three square pins tail	国标品字尾 National standard three square pins tail
起子头 Screwdriver bits	Ø 4x40xØ2.5x20x1 # Ø 4x40xØ2.5x20x0 #	Ø 5x60x1 # Ø 5x60x2 #	Ø 5x60x1 # Ø 5x60x2 #	SSH1/4x65x1 # SSH1/4x65x2 #	SSH1/4x65x1 # SSH1/4x65x2 #	SSH1/4x65x1 # SSH1/4x65x2 #

注:每种配件出厂标配数量为1个

Note:Factory provides only one piece as the standard quantity for each kind of accessory

手持螺丝机专用型

Handheld screwdriver special type



机型特点 Model Features

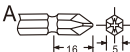


- 多种控制模式适用于各种自动拧紧设备。
Various control modes are suitable for various automatic tightening equipment.
- 无需改装或增加配件，连接控制器直接使用。
No need to modify or expand accessories, just connect with the power controller to use directly.
- 采用协议通讯与设备连接，有效屏蔽干扰信号。
Using protocol communication to connect with devices to effectively shield interference signals.
- 全新设计的一体式电源信号控制器，使用端子接线，确保无间断连接。
The newly designed integrated power signal controller uses terminal wiring to ensure a continuous connection.

技术参数 Technical parameters

型 号 Model	扭力范围 Measuring Range		空载转速 No load speed (r. p. m)		输入电压 Input voltage	重量 Weight(g)	标准批头 Screw bit	
	kgf.cm	N.m	HI	LO				
SD-CA103LF	0.2-3.5	0.02-0.34	1600	1300	30V	330	Ø4mm	
SD-CA106LF	0.3-6.5	0.03-0.63						
SD-CA210L	1-10	0.1-1	1000	800				
SD-CA210LF			2000	1600				
SD-CA215L	2-12	0.2-1.18	1000	800				
SD-CA215LF			2000	1600				
SD-CA219L	3-19	0.29-1.86	1000	800				
接线端口定义	1、接外部DV24V 2、接外部0V 3、外部启动正转，当外部给3输入0V时电动螺丝刀启动正转 4、正转信号输出，当电动螺丝刀启动正转时，4会输出0V 5、扭力信号输出，当电动螺丝刀到达所设定的扭力并刹车停止时，5会输出0V 注意：输出是集电极开漏输出							
	可选输出端起子头规格 Optional specification of screwdriver bits							

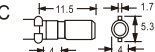
A



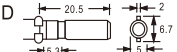
B



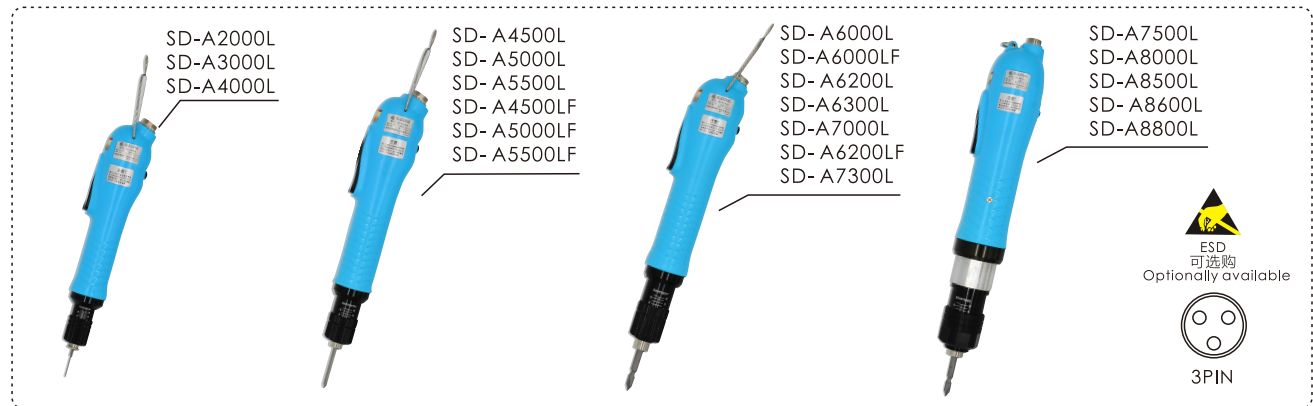
C



D







机型特点 Model feature



电源适配器 Power adapter



技术参数 Technical parameters

型号 Model	扭力范围 Torque Range		空载转速 No load speed(r.p.m)		输入电压 Input voltage	重量 Weight(g)	标准批头 Screw bit
	Kgf.cm	N.m	HI	Lo			
SD-A2000L	0.1-1.5	0.01-0.15	1000	800	30V	330	Ø4mm
SD-A3000L	0.2-3.5	0.02-0.34					
SD-A4000L	0.3-6.5	0.03-0.63					
SD-A4500L	1-10	0.1-1	2000	1600		520	Ø5mm
SD- A4500LF							
SD-A5000L	1000	800					
SD-A5000LF	2000	1600					
SD-A5500L	1000	800					
SD-A5500LF	2000	1600					
SD- A6000L	1000	800					
SD-A6000LF	2000	1600					
SD-A6200L	1000	800					
SD-A6200LF	2000	——	650	1/4-Hex			
SD-A6300L	10-30	0.98-2.94					
SD-A7000L	10-35	0.98-3.43					
SD-A7000L	15-45	1.47-4. 41	650			450	1300
SD-A7300L	20- 50	1.96-4.9	1000			——	
SD-A7500L	30- 70	2.94-6.8	800			——	
SD-A8000L	40- 100	3.92-9.8	500				
SD-A8500L	60- 150	5.88-14.7	350				
SD-A8600L	80- 250	7.84-24.5	215				
SD-A8800L	120- 350	11.8-34.3	155				

可选输出端起子头规格
Optional output terminal screwdriver head specifications

A

B

C

D

可选输出端起子头规格
Optional output terminal screwdriver head specifications



可选购配件 Optional accessories

型号 Model	SD-A2000L SD-A3000L SD-A4000L	SD-A4500L SD-A4500LF SD-A5000L	SD-A5000LF SD-A5500L SD-A5500LF	SD-A6000L SD-A6000LF SD-A6200L	SD-A6200LF SD-A6300L SD-A7000L SD-A7300L	SD-A7500L SD-A8000L SD-A8500L	SD-A8600L SD-A8800L
真空吸头 Vacuum suction nozzle	SD-Q1	SD-Q2	SD-Q3	—	—	—	—
90度转接头 90 degree connector	—	SDL-1/SDL-1A	SDL-2/SDL-2A	SDL-3A-W	—	—	—
扭力保护套 Torque protective sleeve	SD-U1/SD-UT1	SD-U2/SD-UT2	SD-U3/SD-UT3	—	—	—	—
电批插座 Screwdriver socket	SD-K2	SD-K3	SD-K4	—	—	—	—

经济型手按式

Economic trigger start type



电源适配器 Power adapter

SD-30V40W-3P

SD-30V60W-3P



机型特点 Model feature



性能电机
High performance Motor



智能驱动
Intelligent drive



经济耐用
Economical and durable

技术参数 Technical parameters

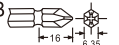
型号 Model	扭力范围 Torque Range		空载转速 No load speed(r.p.m)		输入电压 Input voltage	重量 Weight(g)	标准批头 Screw bit		
	Kgf.cm	N.m	HI	LO					
SD-A200L	0.1-1.5	0.01-0.15	1000	800	30V	450	Ø4mm		
SD-A300L	0.2-3.5	0.02-0.34							
SD-A400L	0.3-6.5	0.03-0.63							
SD-A450L	1-10	0.1-1	2000	1600		650	Ø5mm		
SD-A450LF									
SD-A500L	2-12	0.2-1.18	1000	800					
SD-A500LF								2000	1600
SD-A550L	3-19	0.29-1.86	1000	800					
SD-A550LF	3-17	0.29-1.66	2000	1600					
SD-A600L	5-25	0.5-2.45	1000	800					
SD-A600LF	5-23	0.5-2.25	2000	1600					
SD-A620L	10-30	0.98-2.94	1000	800					
SD-A630L	10-35	0.98-3.43	650	450					
SD-A700L	15-45	1.47-4.41							

可选输出端起子头规格
Optional output terminal screwdriver head specifications

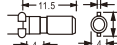
A



B



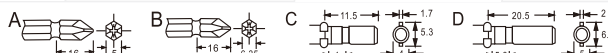
C



D

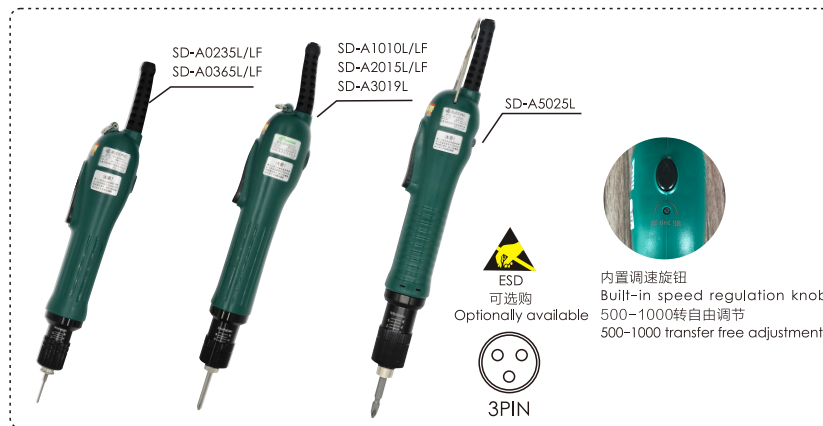


可选输出端起子头规格
Optional output terminal screwdriver head specifications

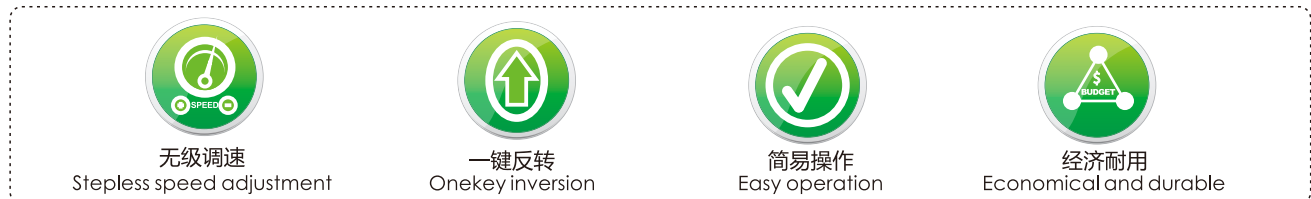


可选购配件 Optional accessories

型号 Model	SD-A200L SD-A300L SD-A400L	SD-A450L SD-A450LF SD-A500L	SD-A500LF SD-A550L SD-A550LF	SD-A600L SD-A600LF SD-A620L	SD-A630L SD-A700L
真空吸头 Vacuum suction nozzle	SD-Q1	SD-Q2		SD-Q3	
90度转接头 90 degree connector	-	SDL-1/SDL-1A		SDL-2/SDL-2A	
扭力保护套 Torque protective sleeve	SD-U1/SD-UT1	SD-U2/SD-UT2		SD-U3/SD-UT3	
电批插座 Screwdriver socket	SD-K2	SD-K3		SD-K4	

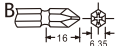
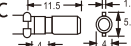
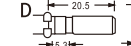


机型特点 Model feature



- 全自动电动螺丝刀，当螺丝锁紧达到设定扭力时，离合器会自动跳脱，马达会自动断电并及时刹车，让电动螺丝刀停止运转。
It is automatic electric screwdriver. When the torque is locked, the clutch will automatically trip, the motor power will be automatically off and the electric screwdriver will stop running.
- 无碳刷电机，扭力输出更加稳定，适合在无尘作业环境使用，稳定性高，操作简单，起子可以长时间使用。
Brushless motor is applicable in a dust-free condition. The output of torque is highly stable, It is not only a easy-operate equipumnt but this screwdriver can be operated for a long period.
- 采用无触点开关，不需要更换易耗品，超长使用寿命。
Non-contact switch is used to provide a durable life in which there is no necessity to replace the item often.

技术参数 Technical parameters

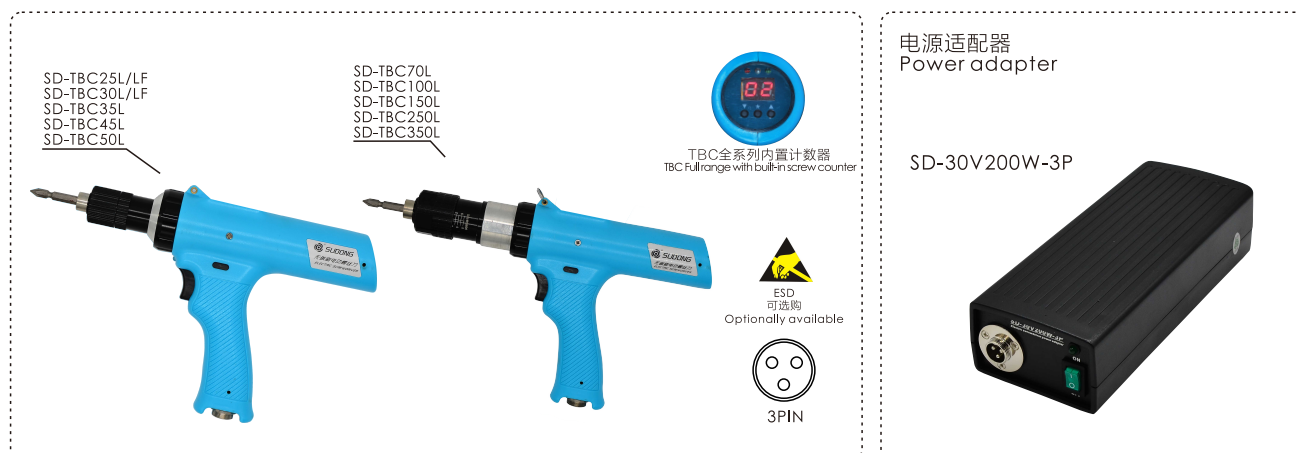
型号 Model	扭力范围 Torque Range		空载转速 No load speed(r.p.m)	输入电压 Input voltage	重量 Weight(g)	标准批头 Screw bit
	kgf.cm	N.m				
SD-A0235L	0.2-3.5	0.02-0.34	350-1000	30V	450	Ø 4mm
SD-A0235LF	0.2-3.5	0.02-0.34	700-2000			
SD-A0365L	0.3-6.5	0.03-0.63	350-1000			
SD-A0365LF	0.3-6.5	0.03-0.63	700-2000			
SD-A1010L	1-10	0.1-1	350-1000		630	Ø 5mm
SD-A1010LF	1-10	0.1-1	700-2000			
SD-A2015L	2-15	0.19-1.47	350-1000			
SD-A2015LF	2-15	0.19-1.47	700-2000			
SD-A3019L	3-19	0.29-1.86	350-1000		740	1/4-Hex
SD-A5025L	5-25	0.5-2.45	1000			
可选输出端起子头规格 Optional specification of screwdriver bits				   		

标准配件 Standard accessories

型号 Model	SD-A0235L SD-A0365L	SD-A1010L SD-A2015L SD-A3019L	SD-A1010LF SD-A2015LF	SD-A5025L
电源适配器 Power adapter	SD-30V40W-3P	SD-30V40W-3P	SD-30V60W-3P	SD-30V60W-3P
连接线 Cable	固定式 Fixed type	固定式 Fixed type	固定式 Fixed type	固定式 Fixed type
电源线 Power cord	国标梅花尾 National plum blossom tail	国标梅花尾 National plum blossom tail	国标品字尾 National standard three square pins tail	国标品字尾 National standard three square pins tail
电批吊簧 Suspension spring	1.0*9*290	1.0*9*290	1.0*9*290	1.0*9*290
起子头 Screwdriver bits	Ø4x40xØ2.5x20x1 # Ø4x40xØ2.5x20x0 #	Ø5x60x 1 # Ø5x60x 2 #	Ø5x60x 1 # Ø5x60x 2 #	SSH1/4x65x 1 # SSH1/4x65x 2 #

注:每种配件出厂标配数量为1个

Note:Factory provides only one piece as the standard quantity for each kind of accessory



机型特点 Model feature



技术参数 Technical parameters

型号 Model	扭力范围 Torque Range		空载转速 No load speed(r.p.m)	输入电压 Input voltage	重量 Weight(g)	标准批头 Screw bit
	Kgf.cm	N.m				
SD-TBC25L	5-25	0.5-2.45	1000	30V	750	1/4-Hex
SD-TBC25LF	5-23	0.5-2.25	2000			
SD-TBC30L	10-30	0.98-2.94	1000			
SD-TBC30LF	10-30	0.98-2.94	2000			
SD-TBC35L	10-35	0.98-3.43	650			
SD-TBC45L	15-45	1.47-4.41				
SD-TBC50L	20-50	1.96-4.9	1000			
SD-TBC70L	30-70	2.94-6.86	800		1300	
SD-TBC100L	40-100	3.92-9.8	500			
SD-TBC150L	60-150	5.88-14.7	350		1400	
SD-TBC250L	80-250	7.84-24.5	215			
SD-TBC350L	120-350	11.8-34.3	155		1800	

可选购配件 Optional accessories

型号 Model	SD-TBC25L/LF SD-TBC30L/LF SD-TBC35L	SD-TBC45L SD-TBC50L SD-TBC70L	SD-TBC100L SD-TBC150L SD-TBC250L SD-TBC350L	SD-TA25L/LF SD-TA30L/LF SD-TA35L	SD-TA45L SD-TA50L SD-TA70L	SD-TA100L SD-TA150L SD-TA250L SD-TA350L
电源适配器 Power adapter	SD-30V200W-3P			SD-30V200W-3P		
连接线 Cable	SD-3P			SD-3P		
电源线 Power cord	国标品字尾 National standard three square pins tail			国标品字尾 National standard three square pins tail		
电批吊簧 Electric screwdriver suspension spring	1.0*9*290			1.0*9*290		
起子头 Screwdriver bits	SSH1/4x65x1# SSH1/4x65x2#			SSH1/4x65x1# SSH1/4x65x2#		

注:每种配件出厂标配数量为1个

Note:Factory provides only one piece as the standard quantity for each kind of accessory

! 本目录内容会有因产品改良而变更的可能性，恕不另行通知
The contents of this catalog may be changed due to product improvement without notice



机型特点 Model feature



技术参数 Technical parameters

型号 Model	扭力范围 Torque Range		空载转速 No load speed(r.p.m)	输入电压 Input voltage	重量 Weight(g)	标准批头 Screw bit
	Kgf.cm	N.m				
SD-TA25L	5-25	0.5-2.45	1000	30V	750	1/4-Hex
SD-TA25LF	5-23	0.5-2.25	2000			
SD-TA30L	10-30	0.98-2.94	1000			
SD-TA30LF	10-30	0.98-2.94	2000			
SD-TA35L	10-35	0.98-3.43	650			
SD-TA45L	15-45	1.47-4.41	1000			
SD-TA50L	20-50	1.96-4.9	800		1300	
SD-TA70L	30-70	2.94-6.86	500		1400	
SD-TA100L	40-100	3.92-9.8	215		1800	
SD-TA150L	60-150	5.88-14.7				
SD-TA250L	80-250	7.84-24.5				
SD-TA350L	120-350	11.8-34.3				

可选购配件 Optional accessories

型号 Model	SD-TBC25L/LF SD-TBC30LF/LF SD-TBC35L	SD-TBC45L SD-TBC50L SD-TBC70L	SD-TBC100L SD-TBC150L SD-TBC250L SD-TBC350L	SD-TA25L/LF SD-TA30L/LF SD-TA35L	SD-TA45L SD-TA50L SD-TA70L	SD-TA100L SD-TA150L SD-TA250L SD-TA350L
电源适配器 Power adapter	SD-30V200W-3P			SD-30V200W-3P		
连接线 Cable	SD-3P			SD-3P		
电源线 Power cord	国标品字尾 National standard three square pins tail			国标品字尾 National standard three square pins tail		
电批吊簧 Electric screwdriver suspension spring	1.0*9*290			1.0*9*290		
起子头 Screwdriver bits	SSH1/4x65x1# SSH1/4x65x2#			SSH1/4x65x1# SSH1/4x65x2#		

注:每种配件出厂标配数量为1个

Note:Factory provides only one piece as the standard quantity for each kind of accessory



无线充电式枪型

Wireless rechargeable gun type



适用电池包及充电座



机型特点 Model feature



性能电机
High performance Motor



智能驱动
Intelligent drive



简易操作
Easy Operation



LED提示灯
LED prompt light



超长续航
Long battery life

- 无线充电设计，突破空间限制，使用更自如。
Long battery life. Wireless charging design breaks through space limitations and makes use more freely.
- 自带计数及防错功能，有效提高良品率。
Built-in counting and error prevention functions, effectively improving the yield rate.
- 使用超长续航的锂电，支持快速更换电池包。
Using long battery life lithium battery, support quick replacement of battery.
- 工业级无刷电机，恒扭矩稳定输出。
Industrial-grade brushless motor, constant torque and stable output.
- 枪把设计有效减少拧紧时产生的反作用力，使用更轻松。
The handle design effectively reduces the reaction force generated when tightening, making it easier to use.

技术参数 Technical parameters

型号Model	扭力范围 Torque Range		空载转速 No load speed (r. p. m)	输入电压 Input voltage	重量 Weight (g)	标准批头 Standard Bits	
	kgf.cm	N.m					
SD-TBC25Li	5-25	0.5-2.45	1000	20V	750	1/4-Hex	
SD-TBC25FLi	5-23	0.5-2.25	2000				
SD-TBC30Li	10-30	0.98-2.94	1000				
SD-TBC30FLi	10-30	0.98-2.94	2000				
SD-TBC35Li	10-35	0.98-3.43	650				
SD-TBC45Li	15-45	1.47-4.41	650				
SD-TBC50Li	20-50	1.96-4.9	1000		1300		
SD-TBC70Li	30-70	2.94-6.86	800				
SD-TBC100Li	40-100	3.92-9.8	500				1400
SD-TBC150Li	60-150	5.88-14.7	350				
SD-TBC250Li	80-250	7.84-24.5	215				
SD-TBC350Li	120-350	11.8-34.3	155				

快速更换电池包 Quickly change the battery



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Align the clamping position, the battery does not move, slide the screwdriver forward and clamp it tightly.



电池包状态指示灯亮起会绿灯，低电状态亮起红灯
The battery status indicator lights up in green, and the low battery status lights up in red



按住电池包释放键，电池包不动将螺丝刀向后滑行分离
Press and hold the battery release button, and slide the screwdriver backward to separate the battery without moving.

简易操作 Steps to install the battery



- 按下启动按板，照明灯会亮起协助完成拧紧作业，松开启动按板会熄灭。
Press the start button, the flashlight will light up to help complete the tightening operation, loosen the start button, it will go out.
- 单一次正反转切换按键后，再按下启动按板，螺丝刀会以反方向旋转。
After a single forward and reverse switch button, press the start button again, the screwdriver will rotate in the reverse direction.
- 使用平衡器或其他悬吊辅助工具，扣住螺丝刀上方的吊环进行拧紧作业操作，可减轻作业员手部负重。
Using the balancer or other suspension auxiliary tools to buckle the suspension ring on the screwdriver for tightening operation, which can reduce the load on the operator's hand.
- 在使用螺丝刀前请观察正反转指示灯，留意螺丝刀正处于正转或反转的旋转状态，避免造成工件损害。
Before using the screwdriver, please observe the forward and reverse indicator lights, pay attention to the screwdriver is in the forward or reverse rotation state, to avoid damage to the workpiece.
- 将螺丝刀静置或不使用的情况下，螺丝刀在一分钟后会进入休眠模式，待再次按下启动按板唤醒螺丝刀。
When the screwdriver is static or not in use, the screwdriver will enter the sleep mode after one minute, and the screwdriver will wake up by pressing the start button again.

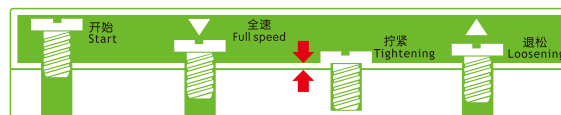
多变拧紧方式 Variable tightening method

柔启柔停 Soft start and stop



柔启动功能防止损坏螺丝顶端，更准确地着座，有效防止螺丝刮花产品。
Soft start function to prevent damage the top of screw more accurately matching screw seat, effectively prevent products from screw scratch.

拧紧退松 Tightening and loosening



针对特殊的产品可设置电动螺丝刀在到达设定扭力后，自动反转螺丝圈数。
As for some special products, can set the number of screw laps for Auto reverse after electric screwdriver reach up to the preset torque.

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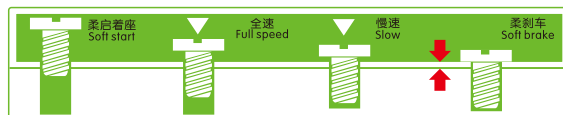
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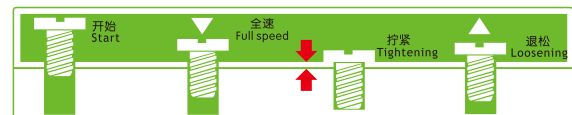
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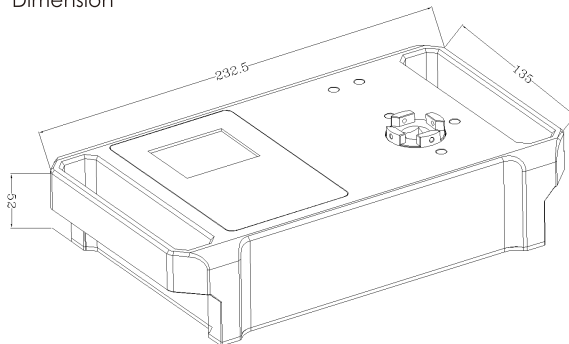
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扭力测试仪

Digital torque meter



外观尺寸
Dimension



业界首台集合扭矩、速度、角度的综合测试仪。
The Industry's First set of Integrated tester combining torque, speed and angle.

特点 Feature

- 采用2.5英寸液晶显示, 多种数据于同一界面, 读取更直观, 免去筛选数据时要切换界面的操作。
Adopt 2.5 inch LCD display, a variety of data on the same interface, read more intuitive, remove the operation of switching interface when filtering data.
- 自动确认扭矩的最大值、最小值及平均值, 扭矩测试精度达到0.5%。
Automatically confirm the max, min and average values, torque measuring precision reach up to 0.5%.
- 通过USB端口与电脑连接, 可绘出扭力输出曲线图和转速曲线图, 利用电脑可以存储无限组测试数据。
Connect to the computer through the USB port, can draw Curve graph of torque output and speed, Using computer can store unlimited set of test data.
- 全新的外观设计理念, 融入工业化与人性化, 操作使用更方便。
Brand New appearance design concept, integrating industrialization and humanize, more convenient to operate and use.

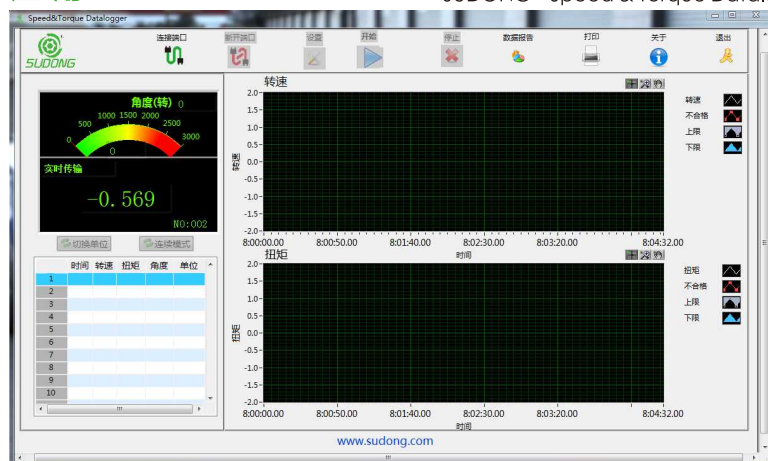
技术参数 Technical parameters

型号 Model	扭力范围 Torque Range		测试精度 Test precision	测试方式 Test method	电源 Power	充满电时间 full charging time	电池寿命 battery lifetime	电池容量 battery capacity	专用充电器 Special power charger		重量 Weight
	kgf.cm	N.m							输入 input	输出 output	
SD-TST-1	0.15-10	0.015-1	±0.5%	PEAK/TEAK FIRST PEAK	7.5V	4小时 four hours	约可充电500次 can be charged about 500 times	3500mA	110V-220V	500mA	1.8KG
SD-TST-10	1.5-100	0.15-10									

注意:连续冲击式的半自动电、气动工具请勿测试;不能测试超过扭力测试仪的最大扭力测试范围。
Note: Continuous impact type of semi-automatic, electric or pneumatic tools cannot be tested on it, and cannot test more than the max torque measuring range of torque meter.

应用 Application

SUDONG™ Speed & Torque Datalogger



数据分析软件 Data analysis software

完美支持Windows XP以上的系统安装使用。
Perfect support installation and use of Windows XP or above system.

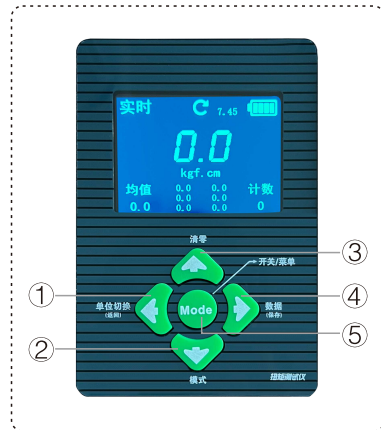
数据分析软件安装在电脑后无需下载驱动或设置, 通过USB端口即可与扭力测试仪进行连接通讯。
Data analysis software is installed on the computer, with no need to download drive or set, can connect with torque meter to communicate through USB port.

实时显示转速、扭矩及角度的数据。
Display speed, torque and angle data in Real time.

测试结果分析, 数据统计分析, 可快速导出Excel表格, 也可一键打印。
Test results analysis, data statistical analysis, can quickly export Excel form, and also can be one-key print.

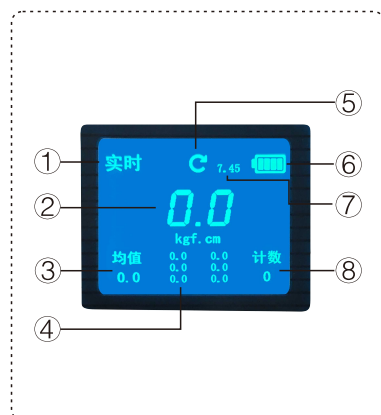
可单次或多次连续记录测试数据, 通过数值的上下限设定, 系统会自动判断合格与不合格。
Can record test data single time or continuous multiple times, through the upper and lower limits of value to set, the system will automatically determine the qualified and unqualified.

按键功能 Buttons function



NO	名称 Name	功能 Function
1	单位切换(返回)键 Unit switch (back) Button	在设置参数时, 返回主界面并保存设置参数值。 When setting parameter, return to main interface and save the setting value. 在主界面上为单位切换键。 It's the Unit switch button in the main interface.
2	模式键 Mode Button	在设置参数时, 为数值减少或功能菜单向下切换。 When setting parameter, it's for value decreasing or function menu switching downward. 在主界面时, 为扭矩显示方式切换键。 In the main interface, it's for switching function of Torque display mode.
3	清零键 Zero Button	在设置参数时, 为数值增加或功能菜单向上切换。 When setting parameter, it's for value increasing or function menu switching upward. 在主界面峰值模式时, 为扭矩和转速清零键。 In peak mode of main interface, it's for zero clearing function of torque and speed.
4	数据(保存)键 MODE Button	在主界面峰值模式时, 短按为保存数据并发送数据, 长按为清除数据。 In peak mode of main interface, short press is to save and send data, long press is to clear data.
5	开关/菜单(Mode)键 Switch/Menu (Mode) button	短按为开机和关机。 Short press is for startup and shutdown. 在主界面时, 长按可进入设置参数界面, 在参数设置界面时, 为功能菜单切换键。 In the main interface, long press can enter into the parameter setting interface, it's for function.

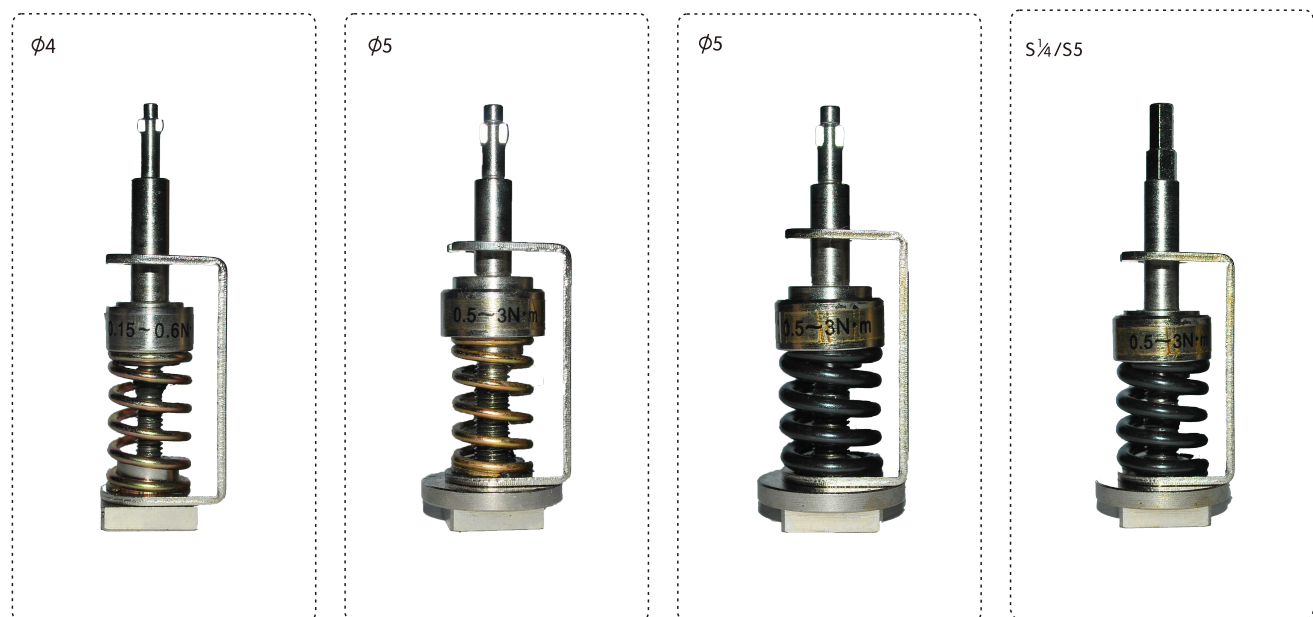
主界面功能显示 Menu changeover



NO	名称 Name	功能 Function
1	扭矩显示方式 Torque display mode	共有三种模式: 实时、峰值、峰值锁定 Three modes: Real time, Peak, Peak lockout
2	实时扭矩显示 Real time torque display	kgf.cm显示精度为0.1; Nm显示精度为0.01. 反转为负数 Kgf.cm display precision is 0.1; Nm display precision is 0.01, Reverse is negative number
3	均值显示 Mean Value Display	该数值为所有已储存扭矩(绝对值)的平均值 This value is the average of all stored torques (absolute values)
4	扭矩单位显示 Torque Unit display	显示kgf.cm和N.m Kgf.cm and N.m
5	扭矩方向 Torque direction	自动显示正反转 Automatically display forward and reverse rotation
6	电量显示 Power display	当电量过低时, 会提示“电量不足”并自动关机 When the power is low, it will indicate "low battery" and automatically shut down
7	实时角度 Real time Angle	电动螺丝刀的实时角度显示(圈数) Show the real time Angle of Electric screwdriver (the number of laps)
8	存储数据 Storage Data	已储存数据的数量 The number of stored data

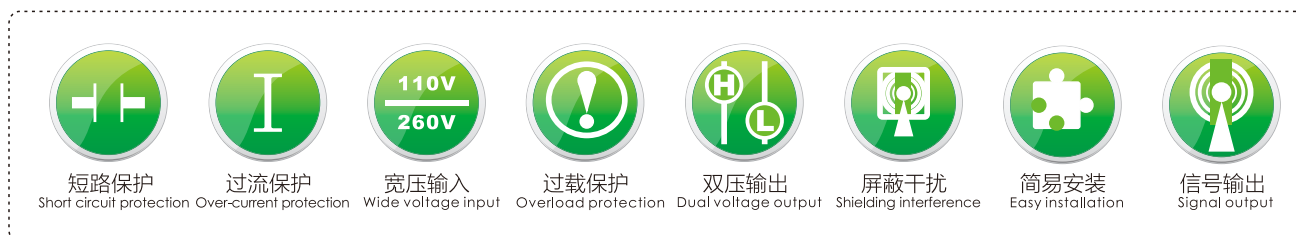
注: 系统可切换英文界面 Note: System can switch to English interface.

周边配件 Accessories





特点 Feature



- 体积小，可悬挂，使工作场所既美观又整洁，不影响作业，移动方便，不占空间。
The size is small so that workplace looks beautiful and neat in which only a little space is required.
- 两段式调速设计，提高装配效率及质量。
The design is two-stage speed to improve assembly efficiency and quality.
- 直接输入AC电源使用，更方便。输出电压稳定，有效提高锁附品质。
More convenient as the direct input AC power is used. The output voltage is stable and effective to improve the lock quality.

电源技术参数 Technical parameters of power supply

型号 Model	输出功率 Output power	输出电压 Output voltage	输入电压 Input voltage	额定电流 Rated current	重量(g) Weight (g)	尺寸(mm) Dimension (mm)	输出端子 Output terminal
SD-30V40W-3P	40W	DC24V/DC30V	AC 110V-AC 260V	1.35A	140	115X51X32	3PIN
SD-30V60W-3P	60W			2A	250	139X68X38	
SD-30V120W-3P	120W	DC30V		4A	640	210X80X52	
SD-30V200W-3P	200W			3.5A	700	210X80X52	
SD-30V40W-8P-C	40W	DC24V/DC30V		1.3A	180	175×52×45	8PIN
SD-30V60W-8P	60W			2A	280	168X70X38	
SD-30V75W-8P- BC	75W	DC30V		2.5A	740	168X98X45	

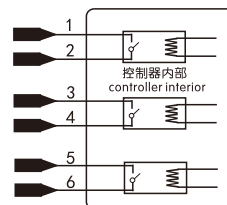
SD-30V75W-8P-BC



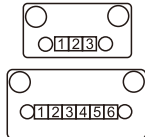
PNP红外传感器
PNP Infraed sensor



输出信号接线图
Outpusingnal connection Diagram



接线端口
Connection port



注明: PNP型

Note: PNP type

1: +24V输出

1: + 24V output

2: 红外传感信号输入

2: Singnal input of Infrared sensor

3: GND

3: GND

1与2: NG信号输出(1与2接通)

1 & 2: NG signal output (Port 1&2 is on)

3与4: 流程完成信号输出(3与4接通)

5与6: 单个OK信号输出(5与6接通)

5&6: Single OK signal output (Port 5&6 is on)

注: 接通时间按设置时间来定

Note: The connection time is to according to the set-up time

自动机电源信号控制器接法

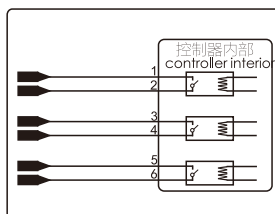
Automata power signal controller connection

SD-30V60W-8P-A

SD-30V60W-8P-B



A



1与2为外部正转启动。

Port 1&2 are external start signal.

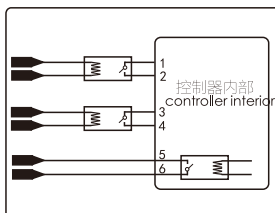
3与4为正转启动信号输出。

Port 3&4 are external forward rotation start signal output.

5与6为刹车信号输出, 当电动螺丝刀到达所设定的扭矩时, 电动螺丝刀停止转动, 5与6接通, 直到释放正转启动信号, 5与6才会断开。

Port 5&6 are brake signal output, when electric screwdriver reach up to the preset torque value, electric screwdriver will stop, then Port 5&6 are connected. The Port 5&6 will disconnect until the forward to start signal is released.

B



1与2为外部正转启动信号, 当1与2接通时电动螺丝刀正转启动

Port 1&2 is startup signal of external forward rotaion, when port 1&2 connect, electric screwdriver forward startup

3与4为外部反转启动信号, 当3与4接通时电动螺丝刀反转启动

Port 3&4 is startup signal of external reverse rotaion, when port 3&4 connect, electric screwdriver reverses startup

5与6为刹车信号输出, 当电动螺丝刀达到所设定的扭力时, 此时电动螺丝刀刹车停止5与6会接通, 直到正转启动信号1与2断开时5与6才会断开

Port 5&6 is for brake signal output, when electric screwdriver reach up to the preset torque, at this time, electric screwdriver will stop, and port 5&6 will connect, until startup signal of forward rotation, port 1&2 disconnect, then port 5&6 disconnect

可按客户要求订制特殊机型, 欢迎垂询。

Special models can be ordering according to customer request, welcome to query anytime.

90°转接头 90°Adapter



应用 Application



- 适用于无法直接操作的组合作业使用，满足特殊的锁付要求。
Applicable to assembly operations that cannot be directly manipulated to meet the special lock-pay requirements.
- 特殊机型可定制。
Special type can be customized.

机型 MODEL	适合电动螺丝刀型号 Suitable for electric screwdriver Type							
SDL-1A	SD-BC4500L SD-BC450L SD-BA450L	SD-BC4500LF SD-BC450LF SD-BA450LF	SD-BC5000L SD-BC500L SD-BA500L	SD-BC5000LF SD-BC500LF SD-BA500LF	SD-BC5500L SD-BC550L SD-BA550L			
SDL-2A	SD-BC6000L SD-BC600L SD-BA600L	SD-BC6000LF SD-BC600LF SD-BA600LF	SD-BC6200L SD-BC620L SD-BA620L	SD-BC6200LF SD-BC620LF SD-BA620LF	SD-BC6300L SD-BA630L SD-BA630L	SD-BC7000L SD-BC700L SD-BA700L	SD-BC7300L SD-BC730L SD-BA730L	
SDL-3A-W	SD-CA750L SD-CA800L SD-CA850L SD-CA860L SD-CA880L							
SDL-1	SD-A1010L SD-A4500L	SD-A2015L SD-A4500LF	SD-A3019L SD-A5000L	SD-A450L SD-A5000LF	SD-A450LF SD-A5500L	SD-A500L SD-A500LF	SD-A550L	
SDL-2	SD-A600L SD-A6000L	SD-A630L SD-A6300L	SD-A700L SD-A7000L					

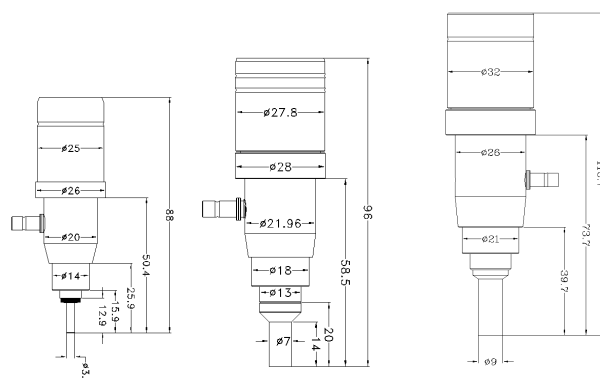
真空吸头
Accessory for suction driver



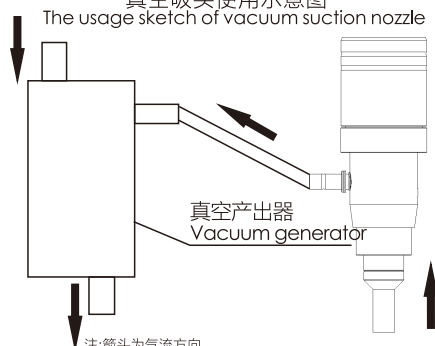
SD-Q1

SD-Q2

SD-Q3



真空吸头使用示意图
The usage sketch of vacuum suction nozzle



注:箭头为气流方向
Note: Arrow indicates the flow direction

应用
Application



特点 Feature

适合无法以磁力吸附的螺丝或自动机的组装机使用。
For the magnetic force of the screw can not be or aut-omated machine assembly operations.

特殊机型可定制。
Special models can be customized.

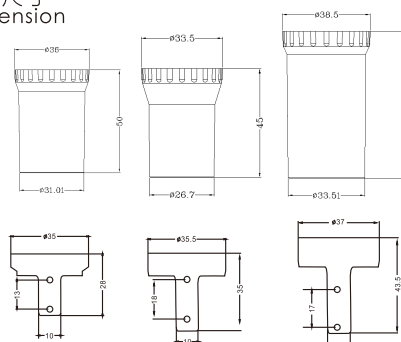
SD-UT1
SD-UT2
SD-UT3



SD-U1
SD-U2
SD-U3



外观尺寸
Dimension



应用
Application



特点

Feature
能有效防止操作员随意调整扭力。
Can effectively prevent the operator free to adjust the torque.

机型 MODEL	适合电动螺丝刀型号 Suitable for electric screwdriver Type			
SD-Q1 SD-U1 SD-UT1	SD-BC2000L SD-BC3000L SD-BC4000L SD-BC200L SD-BC300L SD-BC400L SD-BA200L SD-BA300L SD-BA400L			SD-CA200L SD-CA300L SD-CA400L SD-A2000L SD-A3000L SD-A4000L SD-A300L SD-A400L
SD-Q2 SD-U2 SD-UT2	SD-BC4500L SD-BC5000L SD-BC5500L SD-BC450L SD-BC500L SD-BC550L SD-BA450L SD-BA500L SD-BA550L			SD-CA450L SD-CA500L SD-CA550L SD-A4500L SD-A5000L SD-A5500L SD-A450L SD-A500L SD-A550L
SD-Q3 SD-U3 SD-UT3	SD-BC6000L SD-BC6200LF SD-BC6300L SD-BC7000L SD-BC7300L SD-BC600L SD-BC620LF SD-BC630L SD-BC700L SD-BA600L SD-BA620LF SD-BA630L			SD-BA700L SD-BA730L SD-CA600L SD-CA620LF SD-CA630L SD-CA700L SD-CA730L SD-A6000L SD-A6200LF SD-A6300L SD-A7000L SD-A7300L SD-A600L SD-A630L SD-A700L

平衡吊车 Spring Balancer



应用
Application



技术参数 Technical parameters

机型 Type	负重 Load weight	拉伸长度 Stretching length	产品重量 Weight
SD-1	0.5-1.5Kg	1.5M	0.4Kg

特点 Feature

- 吊挂电动螺丝刀，方便操作并减轻使用者负担。
Reduce the weights receive on a hand by hanging over a screwdriver, easy operation.
- 可调节作业高度，使用后自动恢复定位，避免电动螺丝刀连接线因长期使用折弯段线。
Adjustable operating height, automatic returning to position after use, avoids breaking or bending by long-term using for Electric Screwdriver Power Cord.

平衡支架 Balancing stand



SD-A



SD-B



SD-C

技术参数 Technical parameters

型号 Type	夹持范围 Clamping range	上下工作范围 Up and down working range	左右作业半径 Working radius around
SD-A	28-45mm	600mm	300-680mm
SD-B	28-45mm	700mm	160-650mm
SD-C	27-48mm	400mm	100-1000mm

电动螺丝刀插座 Electric screwdriver socket

SD-K1

SD-K2

SD-K3

SD-K4



特点 Feature

便于安装没法吊挂的工作台。
Easy to install in the table which could not hanging possible.

电源线 Power cord

特点 Feature

新型材料，不易折断，超强耐用。
New materials and difficult to break, super durable.
适合标准型、智能型、机用型无碳刷电动螺丝刀。
Suitable for normal/intelligent/auto machine range of brushless electric screwdriver.

直形连接线 Straight Connection Line



SD-3P



SD-8P

型号
Model

SD-3P

SD-8P

特殊长度可定制
Special lengths can be customized.

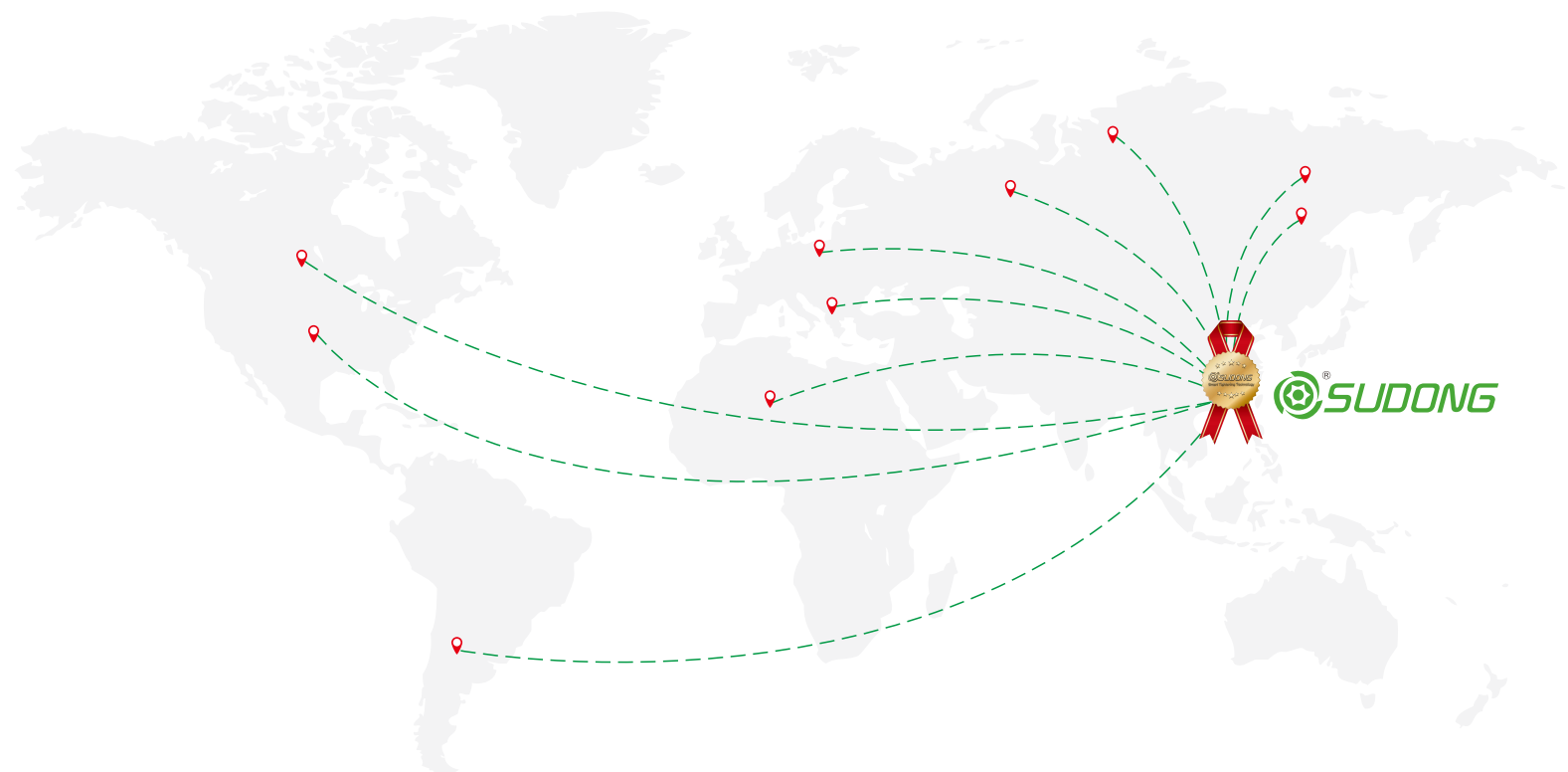
型号编排说明 Type choreography description:

A - L - d - e - P

- 后端型号: Back-end Type: A: 5mm HEX B: 1/4" HEX C: Ø4mm D: Ø5 mm
■ 前端长度 Front-end length
■ 输出端规格 (00, 0, 1, 2, 0.4, T5,) Output specifications
■ 前端直径 D Front-end diameter D ■ 总长度 L The total length of L

起子头规格对照表
Screwdriver head specifications table

样式 Style	规格 Specification			L		
	后端型号 Back-end model	尺寸 Size				
十字型起子头 Cross-head screwdriver	A: 5mm HeX B: 1/4"Hex C: 4mm D: 5mm	d	P	e	40-200	
			00	20-30		
		2.0-2.6	0			
			1			
		3.0-5.0	2			
一字型起子头 A font screwdriver head		H			40-100	
		2.0-3.0	0.4			
			0.6			
		4.5-5.0	0.8			
		内六角起子头 Hexagon head screwdriver	H			40-100
1.27 / 1.5 2.0 / 2.5 3.0 / 4.0 / 5.0 / 6.0						
A/H						
六角套筒 Hex socket			2.2-14.0			50-150
梅花型起子头 Plum-type screwdriver head		d	T		40-100	
		2.0	T5-T6			
		2.5	T7-T8			
		3.0	T9-T10			
		3.5	T15			
		4.0	T20			
		5.0	T25			
6.0		T30				
双头十字型起子头 Double-headed cross-shaped screwdriver head	P			45-300		
	1					
	2					



公司起源于(年)

1998

累计销量(支)

100.00000

热销国家地区(个)

97

终端用户代表 End-user Representatives





 4008 338 598

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速动官方公众号



速动官方商城

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