

Reserve the right to change the parameters of product selection. version: 25/02

FOCUS ON QUALITY FOR INTELLIGENT MANUFACTURING

Provide reliable solutions & services for automation assembly



CONTACT US

WUXI DANIKOR AUTOMATION TECHNOLOGY CO.,LTD.

www.danikor.com

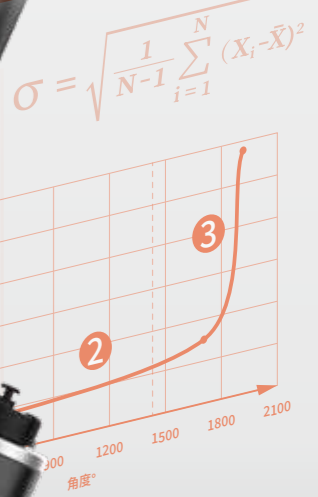
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Danikor
Assembly Automation Technology

Intelligent Screw Driver



0.02~200
Nm

11W
0.02~102

ABOUT US

Provide more Reliable Solutions & Services For Automated Assembly

Founded in 2012, Danikor is dedicated to the R&D, manufacturing, and sales of automatic feeding and intelligent tightening solutions. Over the past decade, Danikor has been committed to independent innovation and now hold 120 proprietary intellectual property rights. Our efforts have been recognized with prestigious accolades such as "SMEs in Specialized New Sectors", "High-tech enterprise" and "Gazelle Enterprise." Leveraging cutting-edge technology, Danikor propels advancements in automated assembly, swiftly responding to market demands. We provide smarter, more reliable, and highly efficient products and comprehensive solutions for our customers. Our product range is extensively utilized in OEMs and component manufacturers across various industries, including automotive manufacturing, new energy powertrains, and 3C electronics.

Domestically, Danikor's shipment volumes consistently rank at the forefront, and our products are exported to over 20 countries, such as Germany, France, the United States, Mexico, and South Korea. We have also established subsidiaries in Germany and Singapore, with another one under preparation in the United States, to provide professional technical services to our overseas customers and further expand our global footprint. Ingenuity, committed to quality for intelligent manufacturing. Danikor will continue to uphold this spirit, constantly drive innovation in assembly technology, provide more reliable solutions and services for automated assembly, and empower the sustainable development of the global manufacturing industry.

INFLUENCE

100,000+ Accumulated sales

10+ years experience in automation technology application

96%+ coverage of automobiles and parts

400+ employees

-  Covering Whole China
-  Set up branches in Germany, Singapore and the United States (under preparation)
- 
- 

Focus on **「QUALITY」** for Intelligent Manufacturing

PRODUCTIVITY

High Quality Production Control

- ① **Material Quality**
Strictly control the quality of raw materials
- ② **Production process**
Independent and controllable core process
- ③ **Assembly Quality**
Process control
- ④ **Delivery inspection**
100% test

SERVICE

Full-cycle Service System

- ① **Pre-sales**
Professional sales and technical support team
- ② **In-sales**
Efficient information management system
- ③ **After-sales**
service network covers the whole world Respond quickly and efficiently to customer needs

PRODUCTS

products series →

INNOVATION

98 items independent intellectual property rights

15% Proportion of annual R & D investment to sales

Product Series

Transducer Intelligent ScrewDriver



Current Intelligent ScrewDriver





Accuracy


Fast


Intelligent


Errorproofing


Convenient

0.14~200Nm

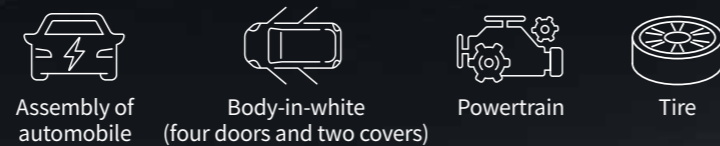
TTC & TTD Transducer

Intelligent Screw Driver

Stable and durable performance, extended torque range, maximum torque of 200Nm, high-precision tightening, clamping torque, slope, rotation angle, zero-speed hold, delayed waiting, yield point, loose sleeve, repair and other tightening strategies to ensure that each screw achieves the best tightening state.

10.1-inch large screen: programmable and guided; real-time curve can be seen; historical data can be consulted; multi-layer bar code can be configured; bus; multiple tools can be connected for real-time use. At the same time, it can effectively improve the efficiency and quality of production.

Application Industry:



Five Advantages

Accuracy

- ±5%** 3σ accuracy over the Full torque range
- ISO 5393** Accuracy test of hard& Soft connection conforms to ISO5393 standard.
- C** Self-developed high precision algorithm control, Under the process condition of ±5%, Satisfy CMK > 1.67

Fast

- 16 STEP** **More tightening steps**
Flexibility to respond to applications with different requirements.
- More tightening strategies**
Base strategy: Torque/Angle/Torque Angle/Speed Control
Higher-order strategy: Clamping torque control, torque-angle method, delay waiting, Zero speed hold, tighten to yield, tighten to torque, Synchronization node, end of tightening, repair preparation, operation to External signal
Default policy template: One-step tightening, two-step tightening, self-learning strategy programming.
- 128 PSET JOB** **More tightening tasks**
Up to 128 Pset torque programs and 128 groups of tightening tasks can be flexibly increased or decreased to meet the tightening requirements of multi-workpiece and multi-torque screws.
- 3** **Graphical Task Management**
Graphical guide interface, intuitively guide workers to operate according to the correct process, do a good job of fool-proof and error-proof control, support the connection of screw feeder, screwdriver, arm and other equipment.

Intelligent

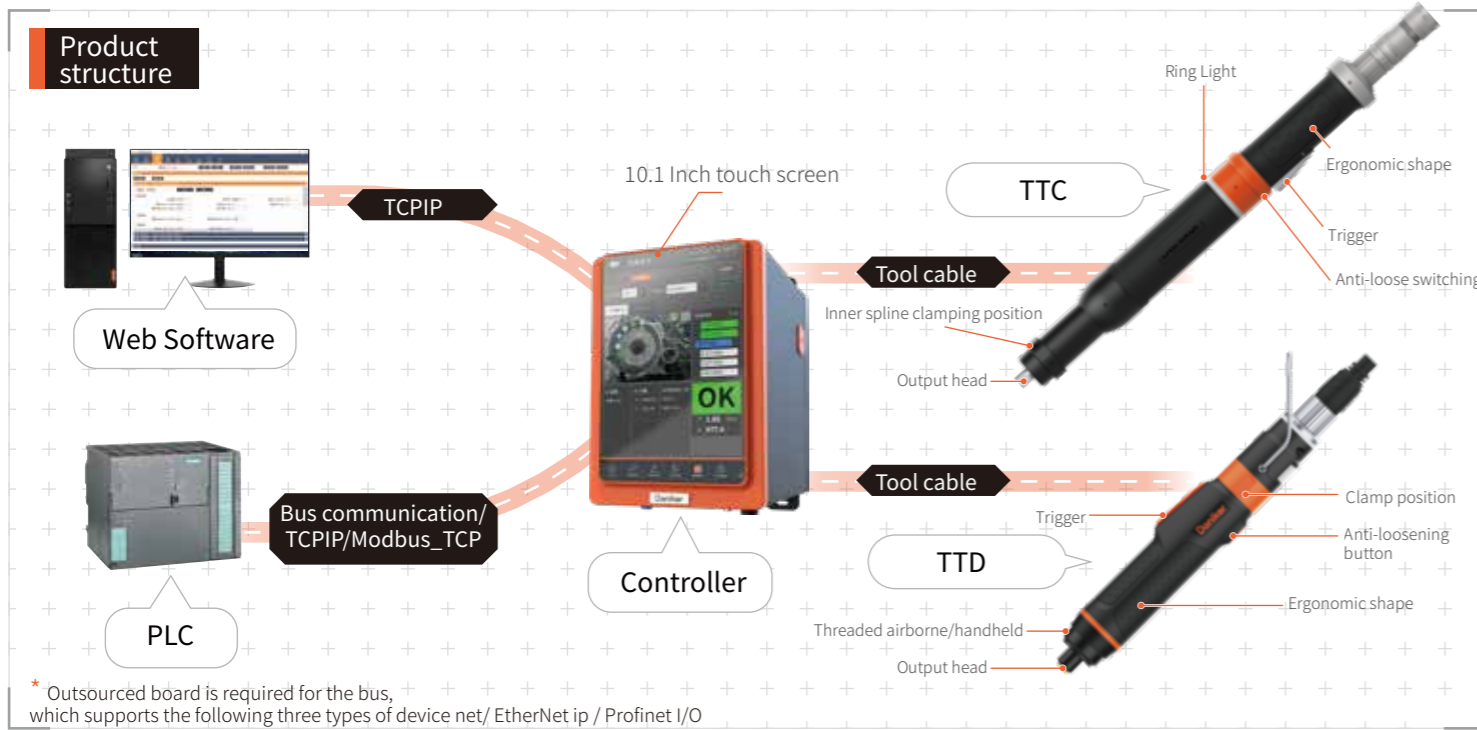
- Tightening Central**
Different communication mode activation screwdrivers can scan code, bus, IO, modbus to activate Pset, Job, task management.
- Global monitoring**
Record and monitor slope/torque/angle/step data during tightening.
- Real-time data upload**
Support real-time uploading of multi-station data to Web, including parameter setting of each screw and corresponding tightening result, and real-time docking with MES.
- Data traceability**
The tightening result of the 500000 group is a tightening curve 5000, which supports the superposition of 5 historical curves.
- Analysis of results**
CP/CPK data analysis can be performed to meet process requirements; Real-time statistics and qualification rate of Pset/Job/task management data.

Errorproofing

- Monitoring of the whole tightening process**
Full range of data monitoring, through torque/angle settings, timely detection of abnormal tightening problems.
- Double judgment of qualified tightening**
The two forms of sensor and current are superimposed to ensure that the torque is qualified.
- One key to open the failure alarm**
In the process of tightening, in case of abnormal conditions such as floating, sliding and repeated tightening, the monitoring mode can be opened with one key.
- Assembly process authority management**
Debugging interface and Job task stage, hierarchical control, need to enter the password to set the strategy and task.

Convenient

- Multi-level barcode configuration**
Support the binding of tightening results to the corresponding station, workpiece, Job and Pset barcodes, and standardize the control of the whole tightening process to avoid manual misoperation.
- Rapid expansion port**
External modules such as internal spline external connection, fast external connection, special head, offset head, open and closed head, etc.
- Superior human-computer interaction**
The 10.1-inch touch screen can quickly set system parameters and policy programs, and visually view tightening data; Support breakpoint resume to prevent information loss.
- Multiple means of communication**
Bus communication (external bus module), TCP/IP, Modbus, TCP, RS485, Http communication protocol, extended digital, I/O interface.
- Multiple forms of startup**
Handheld and airborne, support off/bar code gun/bus/Modbus TCP/custom protocol.
- Peripheral connectivity is simple**
It can be flexibly connected with scanner, sleeve selector, positioning arm, screw feeder and other equipment; The SD card stores the program, and the new controller can be inserted to synchronize the information.
- Supports hot-plug applications**
Cable optional 5m, 10m, 15m.



* Outsourced board is required for the bus, which supports the following three types of device net/ EtherNet ip / Profinet I/O

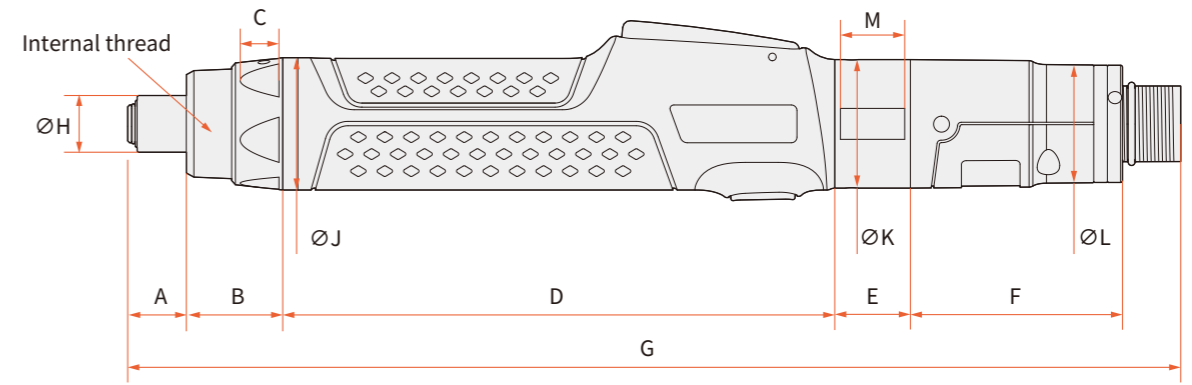
Screwdriver Parameters — Straight type

Model	Max torque Nm	Max speed rpm	Weight kg	Grip diameter mm	Design life	MTTF	Bit quick connector	Starting mode	Screw driver controller	Screw driver cable
PTT-DSH-7000M-35-H1P-000-B	0.14-0.7	3000	0.6	35	>10 million	>1 million	HEX1/4"	Pushed/Remote	OPT-SCK-010-TD1-B-750W	5m/10m/15m Optional
PTT-DSH-0012N-35-H1P-000-B	0.24-1.2	1500	0.7	35						
PTT-DSH-0020N-35-H1P-000-B	0.4-2	1100	0.7	35						
PTT-DSH-0020N-42-H1P-000-B	0.4-2	3000	0.9	42						
PTT-DSH-0040N-42-H1P-000-B	0.8-4	1500	0.9	42						
PTT-DSH-0080N-42-H1P-000-B	1.6-8	960	1	42						
PTT-DSH-0120N-42-H1P-000-B	2.4-12	700	1	42						
PTT-DSH-0200N-42-S2P-000-B	4-20	300	1	42						

Model	Max torque Nm	Max speed rpm	Maximum diameter of output end mm	Design life	MTTF	Bit quick connector	Starting mode
PTT-ASH-0200N-57-S2P-000-N1	4-20	1749	28.5	>10 million	>1 million	S 3/8"	Pushed/Remote
PTT-ASH-0350N-57-S3P-000-N1	7-35	1157	28.5				
PTT-ASH-0500N-57-S3P-000-N1	10-50	661	28.5				
PTT-ASH-0800N-57-S3P-000-N1	20-80	440	28.5				
PTT-ASH-1300N-57-S3P-000-N1	30-130	245	35				
PTT-ASH-2000N-70-S4P-000-N1	50-200	173	35			S 3/4"	

Overall dimensions

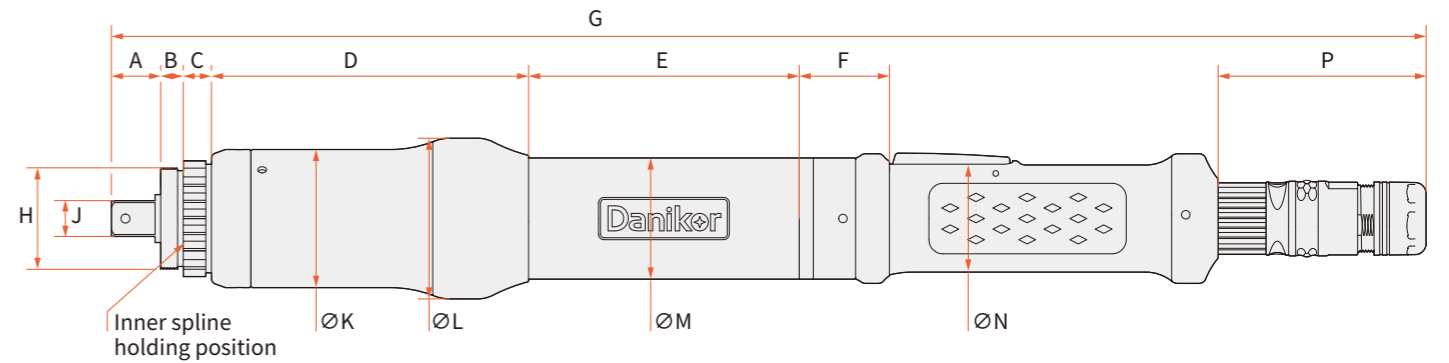
TTD



Unit:mm

Model	A	B	C	D	E	F	G	ØH	ØJ	ØK	ØL	M	Internal thread
PTT-DSH-7000M-35-H1P-000-B	15.5	25.5	10.25	146	20	56.1	278.5	15	35	34	31	17	M26x1 Rotate left
PTT-DSH-0012N-35-H1P-000-B	15.5	25.5	10.25	146	20	56.1	278.5	15	35	34	31	17	
PTT-DSH-0020N-35-H1P-000-B	15.5	25.5	10.25	146	20	56.1	278.5	15	35	34	31	17	
PTT-DSH-0020N-42-H1P-000-B	15.5	28.7	9.8	137.8	20	54.1	271.5	15	41	39	34.5	17	M29x1 Rotate left
PTT-DSH-0040N-42-H1P-000-B	15.5	40.7	9.8	137.8	20	54.1	283.5	15	41	39	34.5	17	
PTT-DSH-0080N-42-H1P-000-B	15.5	45.7	9.8	137.8	20	54.1	288.5	15	41	39	34.5	17	
PTT-DSH-0120N-42-H1P-000-B	15.5	45.7	9.8	137.8	20	54.1	288.5	15	41	39	34.5	17	
PTT-DSH-0200N-42-S2P-000-B	13.5	61.7	9.8	137.8	20	54.1	302.2	12	41	39	34.5	17	

TTC



Unit:mm

Model	A	B	C	D	E	F	G	H	J	ØK	ØL	ØM	ØN	P
PTT-ASH-0200N-57-S2P-000-N1	17.5	8	10	112.5	96	32	466.4	M36x1 Rotate left	9.52	49	57	43	38	73.8
PTT-ASH-0350N-57-S3P-000-N1	17.5	8	10	112.5	96	32	466.4		12.7	49	57	43	38	73.8
PTT-ASH-0500N-57-S3P-000-N1	17.5	8	10	131	96	32	484.9		12.7	49	57	43	38	73.8
PTT-ASH-0800N-57-S3P-000-N1	17.5	8	10	131	96	32	484.9	M55x1 Rotate left	12.7	49	57	43	38	73.8
PTT-ASH-1300N-70-S3P-000-N1	16.5	12.5	10.5	161.2	91.5	32	514.6		12.7	66	70	43	38	73.8
PTT-ASH-2000N-70-S4P-000-N1	16.5	12.5	10.5	172.2	91.5	32	525.6		19	66	70	43	38	73.8

* For detailed specifications, please contact us. The attached drawings are for reference only.

Angle Transducer Tightening Screw Driver

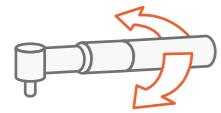
▶ TTD



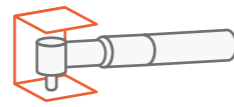
▶ TTC



Product features:



Ergonomic design Save labor, improve efficiency, and make manual operation more comfortable.



Suitable for narrow spaces or application scenarios where tightening in the vertical direction interferes.

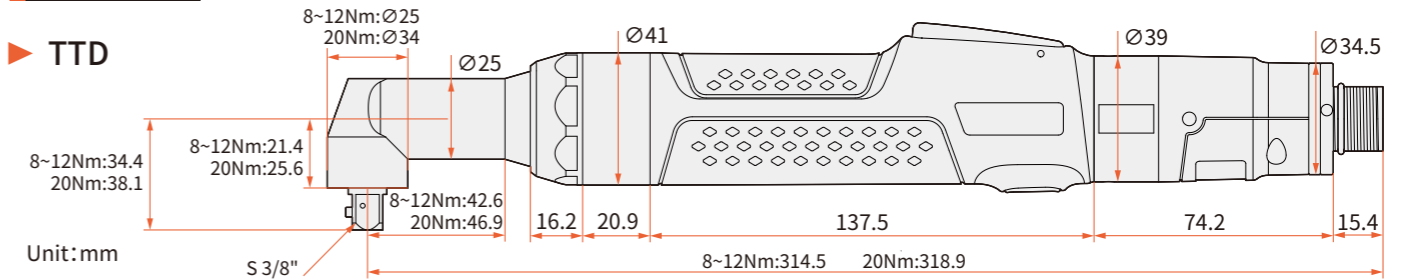
Screwdriver Parameters — Angle type

Model	Max torque Nm	Max speed rpm	Weight kg	Grip diameter mm	Design life	MTTF	Bit quick connector	Starting mode	Screw driver controller	Screw driver cable
PTT-DAH-0080N-42-S2P-000-B	1.6-8	900	1	42	>10 million	>1 million	HEX1/4"	Pushed / Remote	OPT-SCK-010-TD1-B-750W	5m/10m/15m Optional
PTT-DAH-0120-42-S2P-000-B	2.4-12	560	1.1	42						
PTT-DAH-0020-42-S2P-000-B	4-20	414	1.3	42						

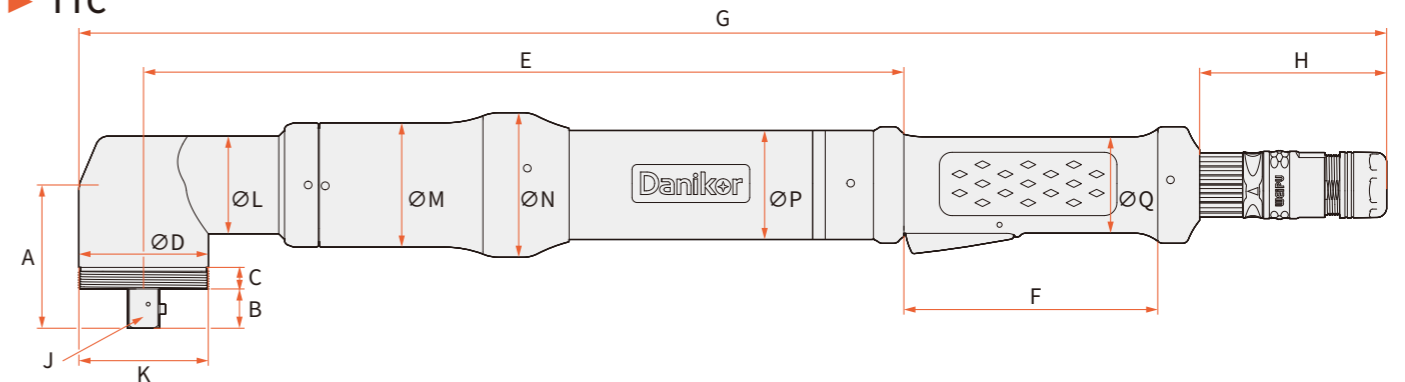
Model	Max torque Nm	Max speed rpm	Maximum diameter of output end mm	Design life	MTTF	Bit quick connector	Starting mode
PTT-AAH-0200N-57-S2P-000-N1	5-20	1400	46	>10 million	>1 million	S 3/8"	Pushed/ Remote
PTT-AAH-0350N-57-S2P-000-N1	8-35	915	46				
PTT-AAH-0500N-57-S3P-000-N1	12-55	758	51			S 1/2"	
PTT-AAH-0800N-57-S3P-000-N1	20-80	355	60				
PTT-AAH-1300N-57-S3P-000-N1	30-130	186	74				

Overall dimensions

▶ TTD



▶ TTC



Unit: mm

Model	A	B	C	ØD	E	F	G	H	J	K	ØL	ØM	ØN	ØP	ØQ
PTT-AAH-0200N-57-S2P-000-N1	51	12.4	7.2	46	296.2	100.1	509.5	73.8	S 3/8"	M46x1Rotate left	38.5	49	57	43	38
PTT-AAH-0350N-57-S2P-000-N1	51	12.4	7.2	46	296.2	100.1	509.5	73.8	S 3/8"	M46x1Rotate left	38.5	49	57	43	38
PTT-AAH-0500N-57-S3P-000-N1	56.5	15.5	8.5	51	299.8	100.1	515.7	73.8	S 1/2"	M51x1Rotate left	38.5	49	57	43	38
PTT-AAH-0800N-57-S3P-000-N1	57.9	14.9	8.5	60	320.5	100.1	541	73.8	S 1/2"	M60x1Rotate left	38.5	49	57	43	38
PTT-AAH-1300N-57-S3P-000-N1	61.4	15.9	9	74	327.3	100.1	554.7	73.8	S 1/2"	M74x1Rotate left	38.5	49	57	43	38

* For detailed specifications, please contact us. The attached drawings are for reference only.

Screwdriver Controller

Product structure



Controller parameters

Model	OPT-STC-C1-B0/(1/2/3)-1000W	OPT-SCK-010-TD1-B-750W
Dimension/mm	280 * 200 * 250	
Voltage	220V	24V
Accuracy	3σ accuracy ±5 %	
Controller screen	10.1inch touch screen	
Reset button	For some system alarms, the reset button can be pressed directly	
Angle display min unit	0.1°	
Communication form	Bus communication/TCP/IP/Modbus_TCP/IO interface	
Data storage Tighten management	500,000 data/5,000 curve 128 Job / 128 Pset / 16 Step	
Tightening strategy	One-step tightening, two-step tightening, multi-step tightening, torque/angle/torque angle/fitting point control, clamping torque control, slope control, rotation angle control, yield point control	
Breakpoint resume	The controller is disconnected from the external equipment. After the network is restored, it supports the breakpoint resume function to prevent information loss.	

0.1~200Nm

TTA Fixed Transducer Intelligent Screw Driver

Stable and durable performance, extended torque range, maximum torque of 200Nm, high-accuracy tightening, clamping torque control to ensure that each screw achieves the best tightening state.

7-inch large screen, programmable; real-time curve can be seen; historical data can be consulted.

For the 3.5-inch screen, you can check the tightening results and switch the Pset.

Intelligent Screw Driver

Application Industry:



New energy vehicles



automotive electronics



automotive parts

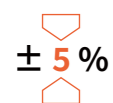


3 C



Five Advantages

Accuracy



± 5% 3σ accuracy over the Full torque range



Accuracy test of hard& Soft connection conforms to ISO5393 standard.



Self-developed high precision algorithm control.

Fast



More tightening steps
Flexibility to respond to applications with different requirements.



High-order tightening strategy
Guarantee tightening quality
Optional higher order strategy: clamping torque control.



More tightening Psets
Reduce setup time between different tightening requirements.



More tightening jobs
Automatically switch between different Psets.

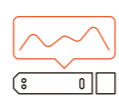
Intelligent



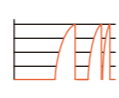
Record and monitor the data of full tightening process.



Real-time data upload
Real-time docking with MES system.

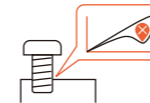


Data storage
Controller local
200,000 tightening Result.



Data traceability
Multiple curves are superimposed to facilitate depth analysis.

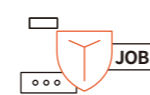
Errorproofing



Monitoring of abnormal tightening process
All-round data monitoring, timely detection of floating locks, sliding teeth, wrong and missing, gasket missing and other unqualified tightening situation.

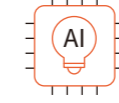


Assembly process authority management
In the debugging interface, you need to enter the password to set the strategy and program.



Job planning and superposition protection
If Job batch is inconsistent, it is required to enter password for intervention.

Convenient



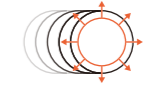
Automatically learn
Automatically recommend the reference parameter range, and quickly build the tightening strategy.



Superior human-computer interaction
Visual display shows the running state intuitively to easy operate.



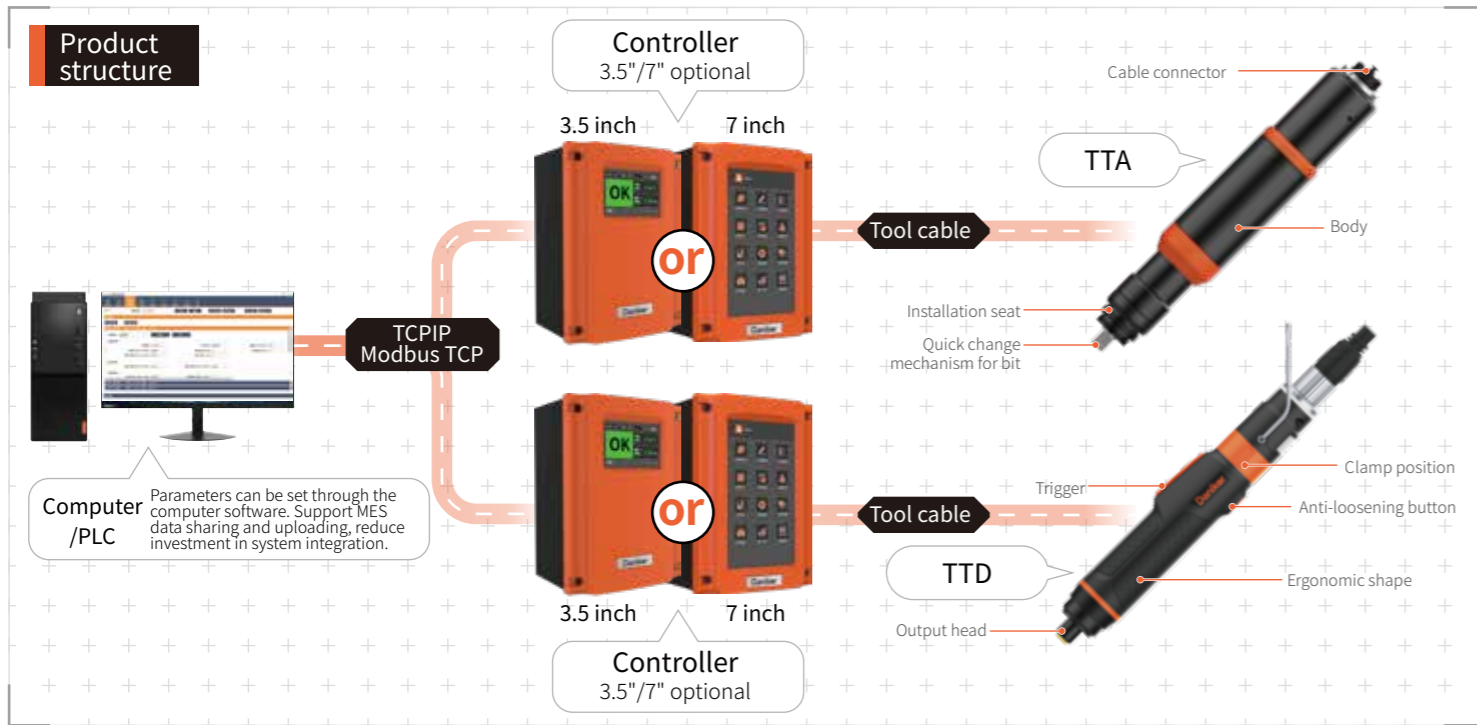
Multiple startup forms
Can be airborne and handheld, Hand held optional trigger accessory for auxiliary use, On-board optional remote/IO/ bus/protocol mode is easy to operate.



Rapid expansion port
Threaded external connection, quick external connection of relevant external modules.



Multiple communication forms
TCP/IP open Protocol, extended digital I/O interface.



*Refer to P7 ~ P8 for parameters and dimensions of TTD.

Screwdriver Parameters

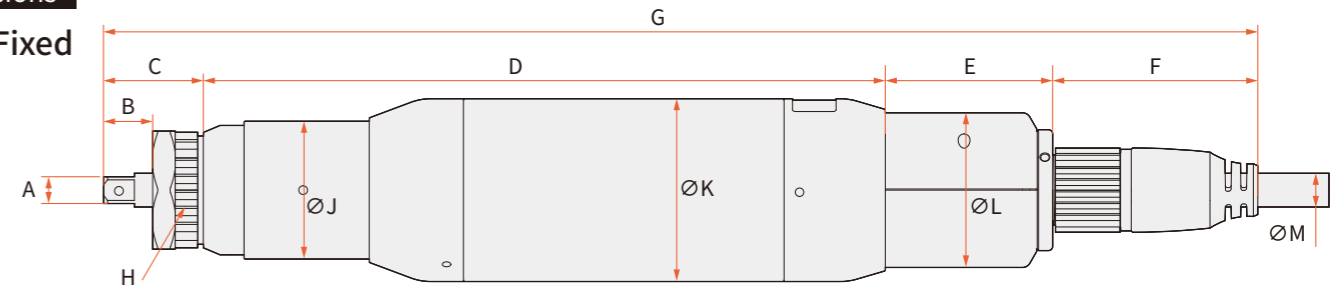
▶ **TTA-Fixed**

Model	Max torque Nm	Max speed rpm	Size mm	Weight kg	Free range of head mm	Design life	MTTF	Bit quick connector	Screw driver controller	Screw driver cable
PTT-ASF-5000M-0-H10-000-B	0.1~0.5	3000	263*46	0.8	-	>10 million	>1 million	HEX1/4"	OPT-SCS-003-TA1-B-130W OPT-SCS-007-TA1-B-130W	Optional 5m/10 m/ 15m/20m Straight or Angle Cable
PTT-ASF-0014N-0-H10-000-B	0.2~1.4	3000	263*46	0.9	-					
PTT-ASF-0045N-0-H10-000-B	0.7~4.5	1800	295*46	1.1	-					
PTT-ASF-0070N-0-H10-000-B	1~7	1200	295*46	1.1	-					
PTT-ASF-0120N-0-H10-000-B	4~12	545	309*46	1.5	-			S 1/2"	OPT-SCS-003-TA1-B-800W OPT-SCS-007-TA1-B-800W	
PTT-ASF-0200N-0-S20-000-B	5~20	1870	353*65	2.7	-					
PTT-ASF-0500N-0-S30-000-B	6~50	555	364*65	2.7	-			S 3/4"	OPT-SCS-003-TA1-B-1300W OPT-SCS-007-TA1-B-1300W	
PTT-ASF-0800N-0-S30-000-B	10~80	555	380*86	4	-					
PTT-ASF-1300N-0-S30-000-B	20~130	444	400*86	4.8	-			S 1/2"	OPT-SCS-003-TA1-B-800W OPT-SCS-007-TA1-B-800W	
PTT-ASF-2000N-0-S40-000-B	30~200	293	407*86	5	-					
PTT-ASF-0200N-0-S20-000-B	5~20	1870	448*46	-	20			S 1/2"	OPT-SCS-003-TA1-B-1300W OPT-SCS-007-TA1-B-1300W	
PTT-ASF-0500N-0-S30-050-B	6~50	555	514*65	-	50					
PTT-ASF-0800N-0-S30-050-B	10~80	555	530*86	-	50	S 3/4"	OPT-SCS-003-TA1-B-800W OPT-SCS-007-TA1-B-800W			
PTT-ASF-1300N-0-S30-050-B	20~130	444	541*86	-	50					
PTT-ASF-2000N-0-S40-050-B	30~200	293	549*86	-	50					

TTA Fixed Transducer Intelligent Screw Driver

Overall dimensions

▶ **TTA-Fixed**



Unit:mm

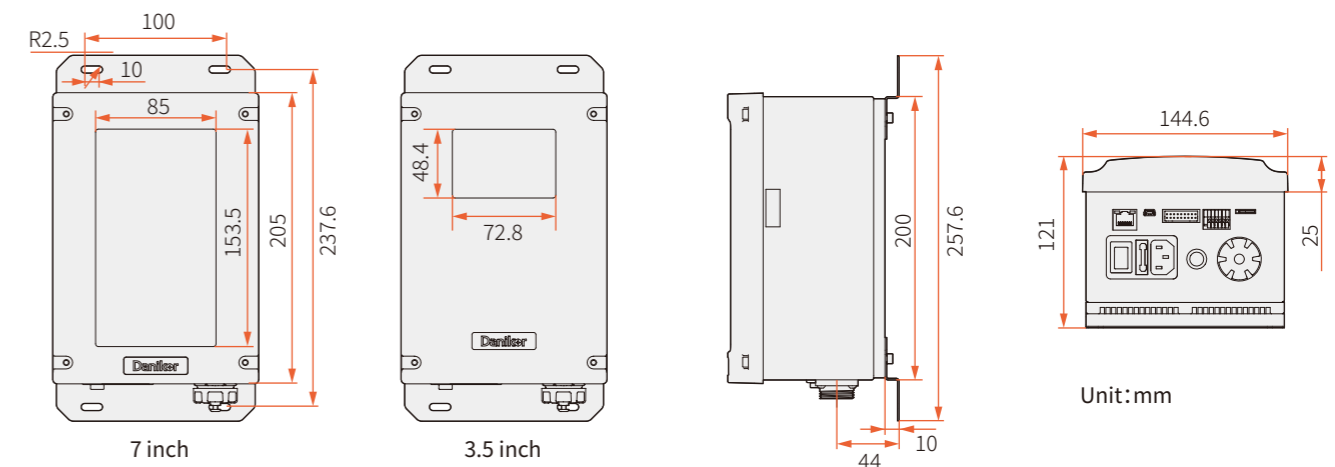
Model	A	B	C	D	E	F	G	H	ØJ	ØK	ØL	ØM
PTT-ASF-5000M-0-H10-000-B	Ø15	14.65	38.15	139	63.5	73.45	314.1	M36x1 Rotate left	43	46	43	12
PTT-ASF-0014N-0-H10-000-B	Ø15	14.65	38.15	139	63.5	73.45	314.1		43	46	43	12
PTT-ASF-0045N-0-H10-000-B	Ø15	17	35.5	175	63.5	73.45	347.45		43	46	43	12
PTT-ASF-0070N-0-H10-000-B	Ø15	19	38.7	176.3	63.5	73.45	351.95		43	46	43	12
PTT-ASF-0120N-0-H10-000-B	Ø15	19	38.7	190.3	63.5	73.45	365.95	Spline fixed	43	46	43	12
PTT-ASF-0200N-0-S20-000-B	S 3/8"	17.5	35.5	242.5	59.5	72.95	410.45		49	65	55	12
PTT-ASF-0500N-0-S30-000-B	S 1/2"	15.5	35.5	253	59.5	72.95	420.95		49	65	55	12
PTT-ASF-0800N-0-S30-000-B	S 1/2"	15.5	35.5	237.25	90.5	72.95	436.2		49	86	55	12
PTT-ASF-1300N-0-S30-000-B	S 1/2"	15.5	38.5	254.5	90.5	72.95	456.45		66	86	55	12
PTT-ASF-2000N-0-S40-000-B	S 3/4"	23	47	252.5	90.5	72.95	462.95	66	86	55	12	

* For detailed specifications, please contact us. The attached drawings are for reference only.

Screwdriver Controller

Controller parameters

Model	OPT-SCS-003-TA1-B-130W OPT-SCS-007-TA1-B-130W	OPT-SCS-003-TA1-B-800W OPT-SCS-007-TA1-B-800W	OPT-SCS-003-TA1-B-1300W OPT-SCS-007-TA1-B-1300W
Dimension/mm	145*205*111		
Weight/kg	1.9		
Voltage	220V AC		
Power/W	130	800	1300
Accuracy	3σ accuracy ±5%		
Angle display min unit	0.1°		
Communication form	TCPIP、Modbus_TCP、IO		
Data storage	50 sets of Pset, 200,000 sets of tightening results, 7" version with 5 historical curves		
Tightening strategy	Clamping torque control, torque control, speed control, angle control, angle/torque control, self-learning strategy.		



0.05~11Nm

TCD Handheld Current

Application Industry:



New energy vehicles



automotive electronics



automotive parts



3 C



Communication



Home appliances



medical care

Intelligent Screw Driver



Five Advantages

Accuracy

±7.5% 3σ accuracy over the Full torque range.

ISO 5393 Accuracy test of hard& Soft connection conforms to ISO5393 standard.

C Self-developed high precision algorithm control.

Fast

15 STEP **More tightening steps**
Flexibility to respond to applications with different requirements.

More tightening strategies
Guarantee tightening quality.

50 PEST **More tightening Psets**
Reduce setup time between different tightening requirements.

More tightening jobs
Automatically switch between different Psets

Intelligent

Nm **Record and monitor the data of full tightening process.**

MES **Real-time data upload**
Real-time docking with MES system.

Data storage
You can hold more quantities and filter the number of results that are analyzed for a given program or time period.

Data traceability
Multiple curves are superimposed to facilitate depth analysis.

Errorproofing

Monitoring of abnormal tightening process
All-round data monitoring, timely detection of floating locks, sliding teeth, wrong and missing, gasket missing and other unqualified tightening situation.

Assembly process authority management
In the debugging interface, you need to enter the password to set the strategy and program.

Job planning and superposition protection
If Job batch is inconsistent, it is required to enter password for intervention.

Convenient

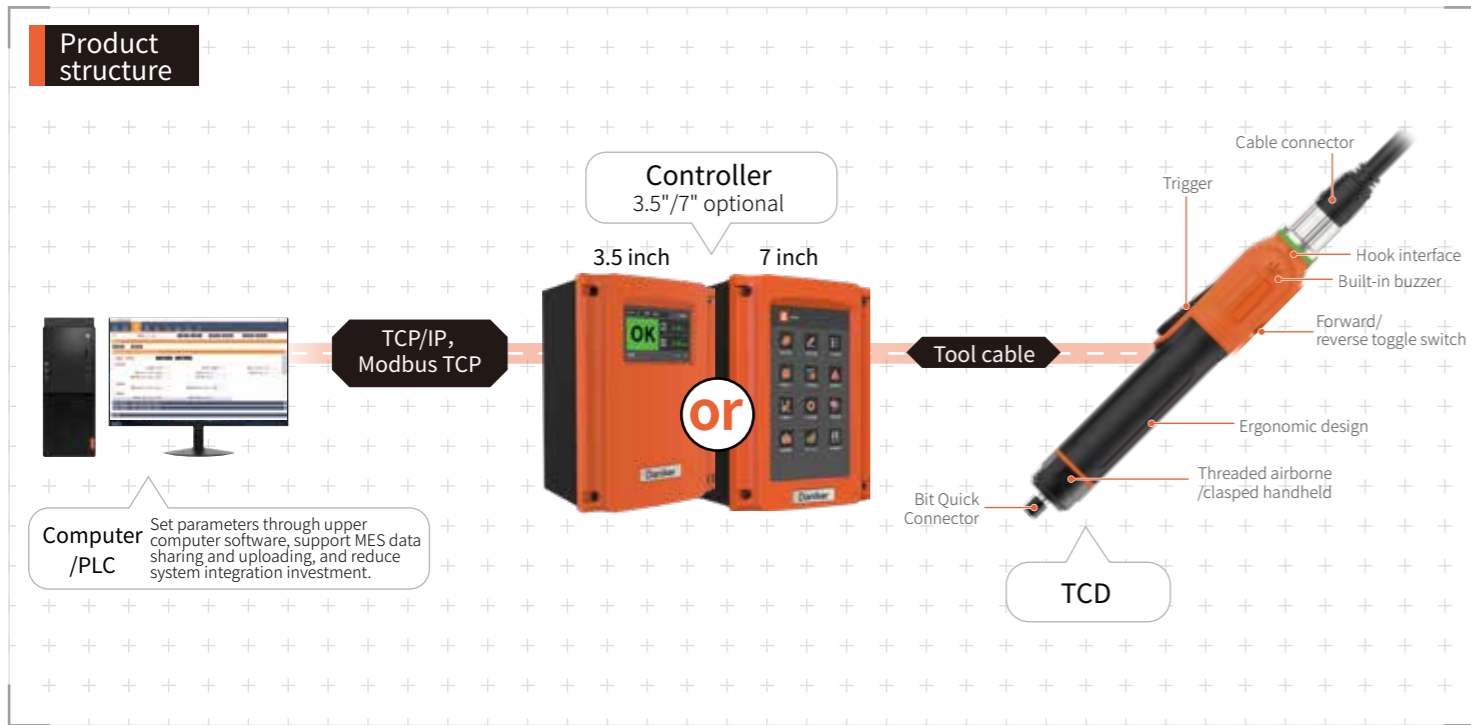
AI **Automatically learn**
Automatically recommend the reference parameter range, and quickly build the tightening strategy.

Superior human-computer interaction
Visual display shows the running state intuitively to easy operate.

Multiple communication forms
One network port is extended to three ports, two TCP/IP ports and 1-channel Modbus _ TCP, IO, supporting controller, PLC and MES are connected in series simultaneously.

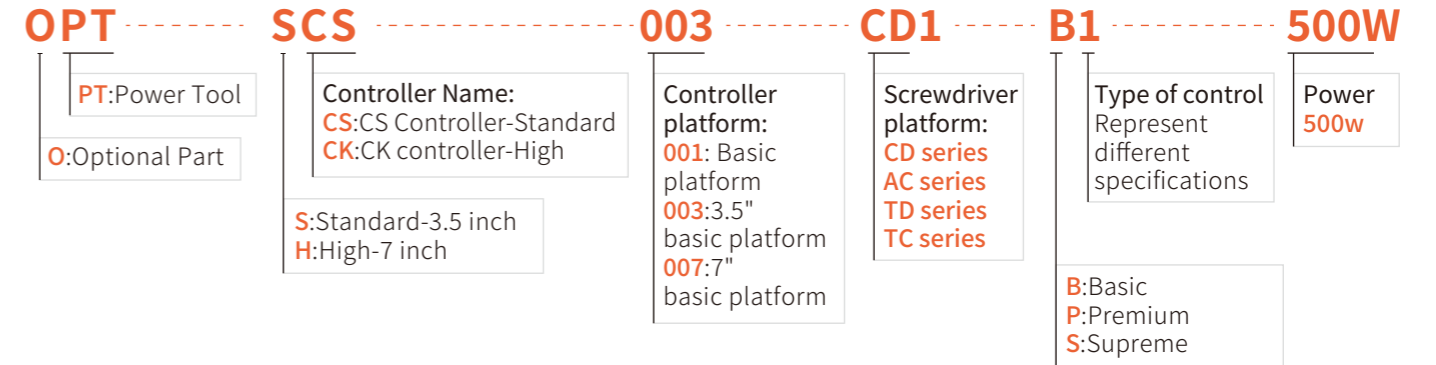
Rapid expansion port
Threaded external connection, quick external connection of relevant external modules.

Multiple startup forms
Can be hand-held or airborne, Handheld optional trigger, remote, IO start mode.



Screwdriver Controller

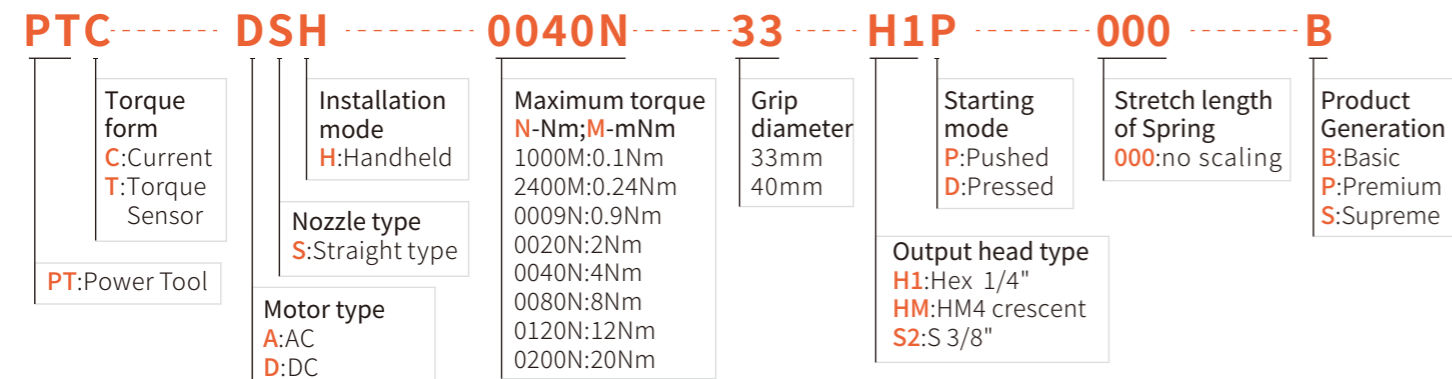
Model Description



Controller Parameters

Model	OPT-SCS-001-CD1-B3-500W OPT-SCS-007-CD1-B3-500W	OPT-SCS-001-CD1-B1-500W OPT-SCS-007-CD1-B1-500W	OPT-SCS-001-CD1-B2-500W OPT-SCS-007-CD1-B2-500W
Dimension/mm	145*205*111		
Weight/kg	1.9		
Voltage	220V AC		
Power/W	500		
Accuracy	3σ accuracy ±7.5%		
Angle display min unit	0.1°		
Communication form	TCPIP, Modbus_TCP, IO		
Data storage	50 sets of Job, 50 sets of Pset, 200,000 sets of tightening results, 7" version with 5 historical curves		
Tightening strategy	Torque control, speed control, angle control, angle/torque control, self-learning strategy		

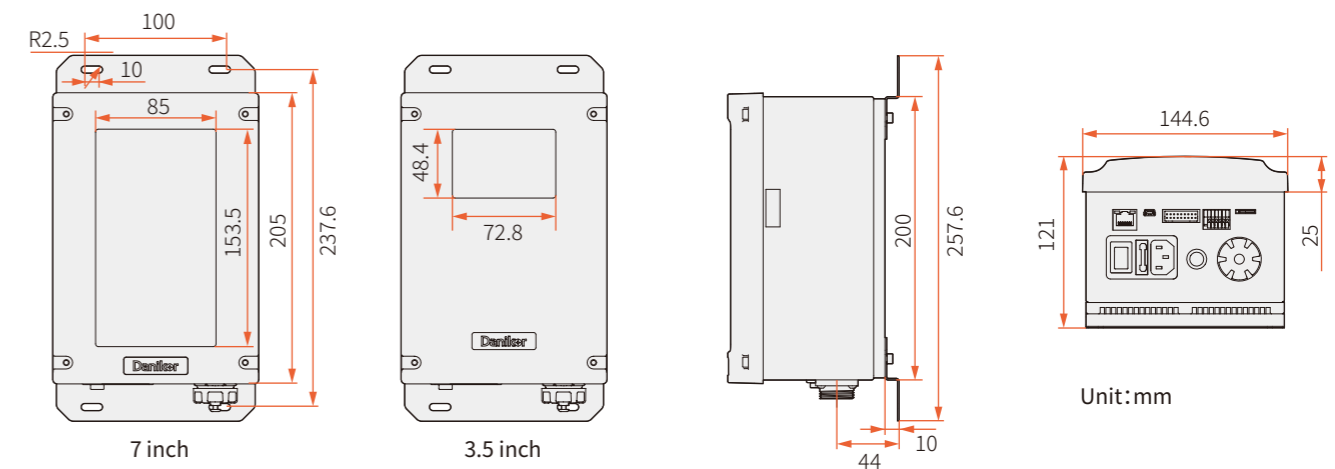
Screw driver product model description



Screw driver Parameters

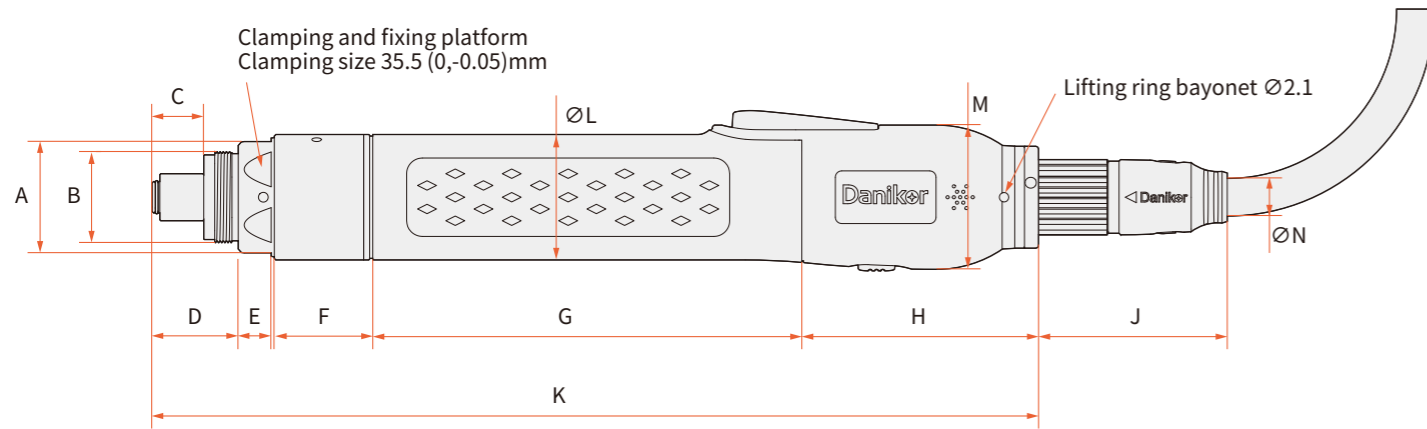
Model	Max torque Nm	Max speed rpm	Grip diameter mm	Size mm	Weight kg	Bit quick connector	Screw driver controller	Voltage power
PTC-DSH-1000M-33-HMP-000-B	0.02~0.1	3000	33	247.2	314.6	HM4	OPT-SCS-001-CD1-B3-500W OPT-SCS-007-CD1-B3-500W	500w 24V
PTC-DSH-2400M-33-HMP-000-B	0.05~0.24	3000	33	247.2	330.3		OPT-SCS-001-CD1-B1-500W OPT-SCS-007-CD1-B1-500W	
PTC-DSH-0009N-33-H1P-000-B	0.18~0.9	3000	33	268.8	396.4	HEX1/4"	OPT-SCS-001-CD1-B2-500W OPT-SCS-007-CD1-B2-500W	
PTC-DSH-0020N-40-H1P-000-B	0.4~2	3000	40	273.7	456.7			
PTC-DSH-0040N-40-H1P-000-B	0.8~4	1500	40	285.7	502.4			
PTC-DSH-0080N-40-H1P-000-B	2~8	960	40	290.7	527.5			
PTC-DSH-0120N-40-H1P-000-B	4~12	700	40	290.7	553.9			
PTC-DSH-0200N-40-S2P-000-B	7~20	300	40	302.2	664.7			

Overall dimensions



Overall dimensions

▶ Regular model

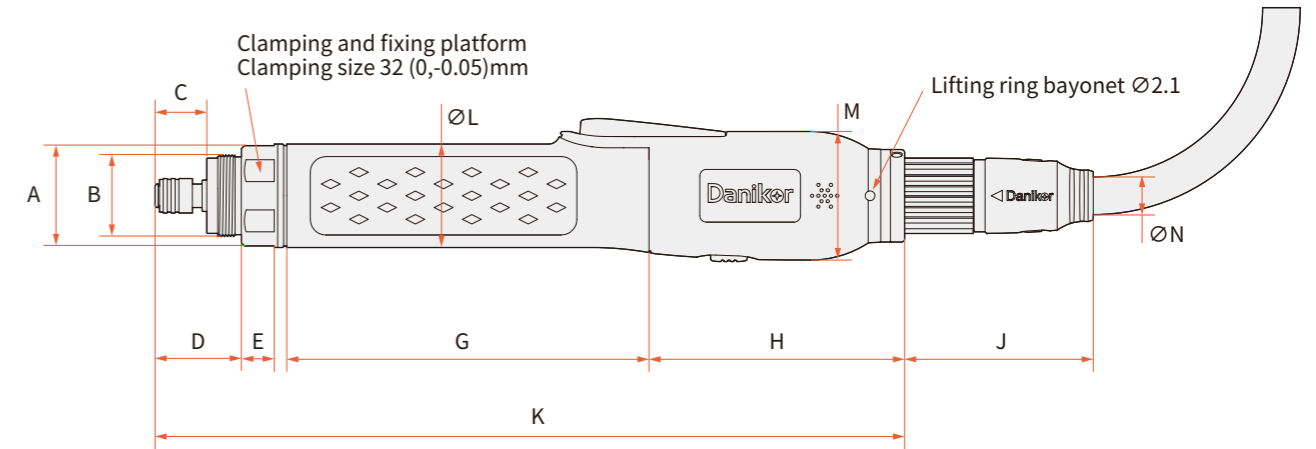


Unit:mm

Model	A	B	C	D	E	F	G	H	J	K	ØL	M	ØN
PTC-DSH-0009N-33-H1P-000-B	32	M26x1 Rotate left	16.5	27.5	10.5	25	115.5	81.5	77.4	261	33	41	11.3
PTC-DSH-0020N-40-H1P-000-B	35.5	M29x1 Rotate left	16.5	27.5	10.5	14	136.8	75.5	77.4	265.3	40	46	11.3
PTC-DSH-0040N-40-H1P-000-B	35.5		16.5	27.5	10.5	26.5	136.8	75.5	77.4	277.8	40	46	11.3
PTC-DSH-0080N-40-H1P-000-B	35.5		16.5	27.5	10.5	31.5	136.8	75.5	77.4	282.8	40	46	11.3
PTC-DSH-0120N-40-H1P-000-B	35.5		16.5	27.5	10.5	31.5	136.8	75.5	77.4	282.8	40	46	11.3
PTC-DSH-0200N-40-S2P-000-B	35.5		14.5	25.5	10.5	47	136.8	75.5	77.4	296.3	40	46	11.3

* For detailed specifications, please contact us. The attached drawings are for reference only.

▶ Micro-torque model



Unit:mm

Model	A	B	C	D	E	G	H	J	K	ØL	M	ØN
PTC-DSH-1000M-33-HMP-000-B	32	M26x1 Rotate left	16.5	27.5	10.5	115.5	81.5	77.4	239	33	41	11.3
PTC-DSH-2400M-33-HMP-000-B	32		16.5	27.5	10.5	115.5	81.5	77.4	239	33	41	11.3

* For detailed specifications, please contact us. The attached drawings are for reference only.

0.1~200Nm

TCA Fixed Current

Designed for economical applications, it combines high performance and compact design, realizes intelligent and digital screw tightening, and efficiently meets the needs of cost control, which is a truly cost-effective choice.

Intelligent Screw Driver

Application Industry:

Automobile and parts, Electronics, Home appliances, etc.



Five Advantages

Accuracy

±7.5%
3σ accuracy over the Full torque range.

ISO 5393
Accuracy test of hard& Soft connection conforms to ISO5393 standard.

C
Self-developed high precision algorithm control.

Fast

15 STEP
More tightening steps
Flexibility to respond to applications with different requirements.

More tightening strategies
Support angle control, torque control, speed control, angle/torque control;
Self-learning strategy, automatic generation of tightening strategy for setting parameters.

50 PSET
More tightening Psets
Reduce setup time between different tightening requirements.

Intelligent

Monitor the whole process
Tightening data such as torque, angle and speed, including OK/NG number, times and qualification rate.

MES
Real-time data upload
Real-time display of tightening results and realtime docking with MES system.

Data storage
200 thousand sets of tightening results can be stored and filter the number of results that are analyzed for a given program or time period.

Data traceability
Supports 14 curve overlay analysis and tightening data CP/CPK analysis.

Errorproofing

Monitoring of abnormal tightening process
All-round data monitoring, timely detection of floating locks, sliding teeth, wrong and missing, gasket missing and other unqualified tightening situation.

Assembly process authority management
The debugging interface needs to input the password to set the strategy and program, and if you do not operate within the set time, you will automatically log out.

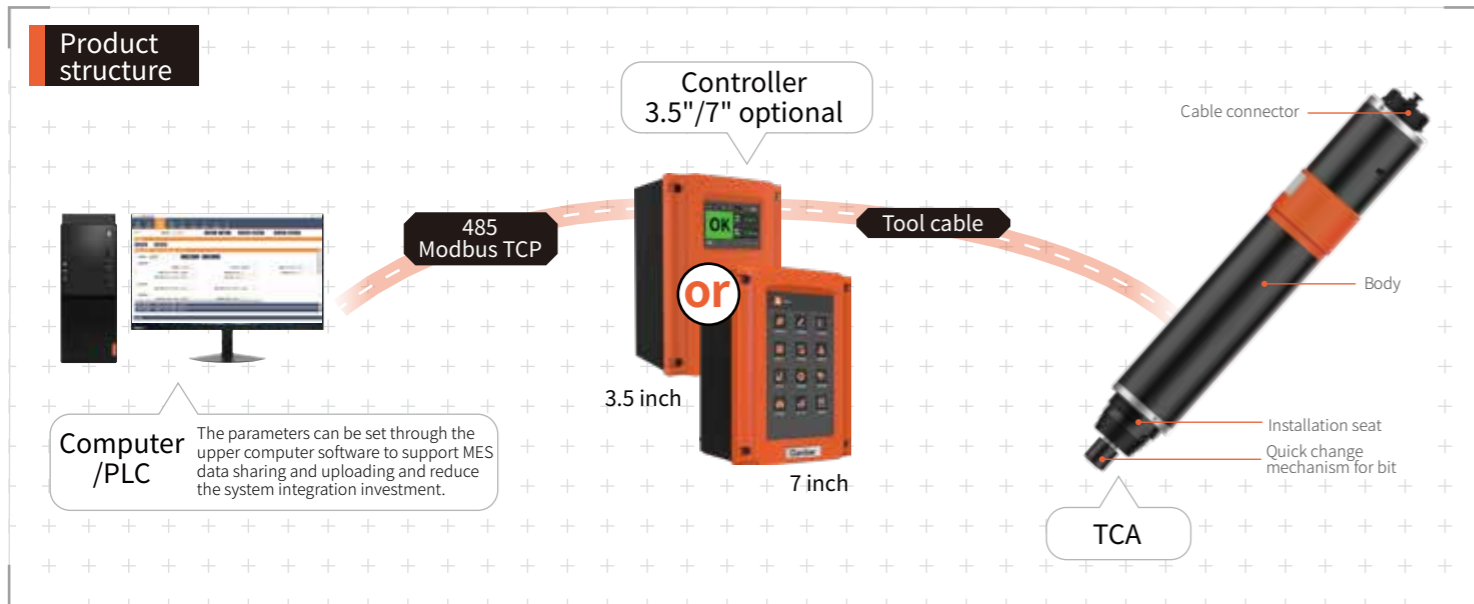
Convenient

Superior human-computer interaction
Large screen version
Support policy parameter setting and real-time view of tightening curve; support permission configuration.
Small screen version
View the tightening result in real time; support the modification of password setting.

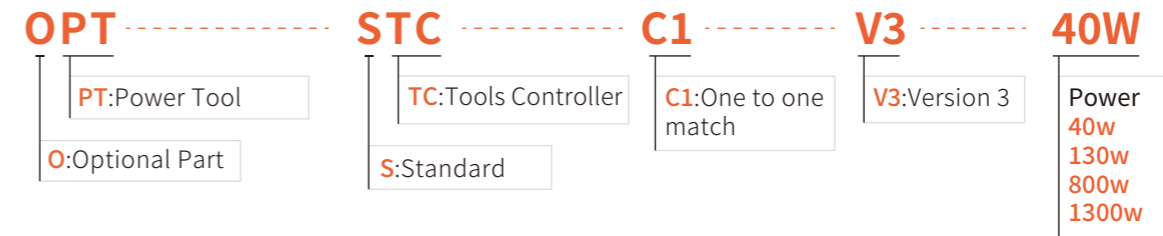
Multiple communication forms
One network port is extended to three ports, two TCP/IP ports and 1-channel Modbus _ TCP, IO, supporting controller, PLC and MES are connected in series simultaneously.

Statistics of calibration information
Support the import of sensor calibration data and automatic calculation of K value.

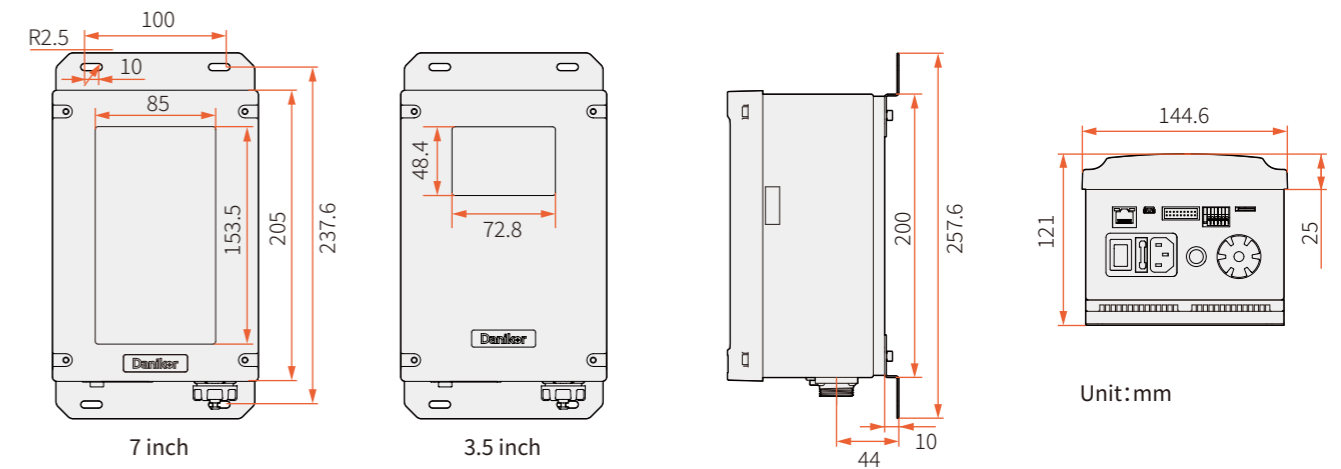
中 A
Switch between Chinese and English systems.



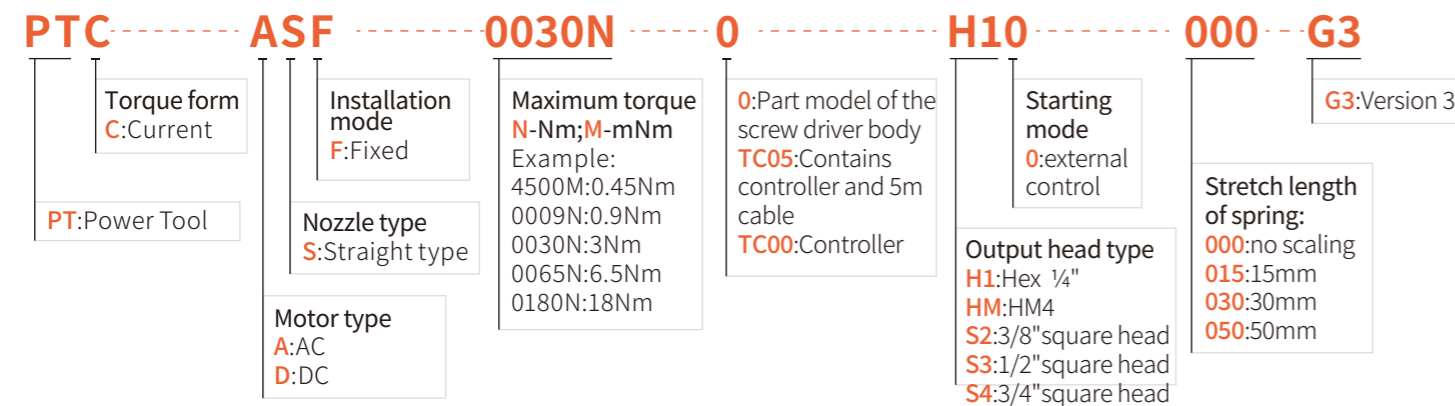
Screw Driver Controller Model Description



Overall dimensions



Screw driver product model description



Screw driver Product System Parameters

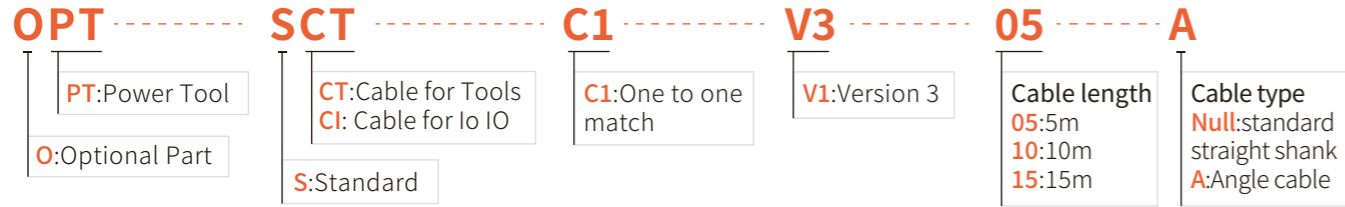
Model	Max torque /Nm	Max speed /rpm	Accuracy	Dimension /mm	Weight /kg	Free range of head/mm	Bit quick connector	Screw driver controller	Screw driver cable
PTC-ASF-5000M-0-H10-000-G3	0.1~0.5	3000	3σ ±7.5%	239.2*45	0.832	-	Hex 1/4"	OPT-STC-C1-V3-130W OPT-HTC-C1-V3-130W	5m/ 10m/15m Straight or Angle optional
PTC-ASF-0014N-0-H10-000-G3	0.2~1.4	3000		239.2*45	0.890	-			
PTC-ASF-0045N-0-H10-000-G3	0.7~4.5	1800		280.7*45	1.11	-			
PTC-ASF-0070N-0-H10-000-G3	1~7	1200		287.7*45	1.12	-			
PTC-ASF-0120N-0-H10-000-G3	4~12	545		301.2*45	1.44	-	S 3/8"	OPT-STC-C1-V3-800W OPT-HTC-C1-V3-800W	
PTC-ASF-0200N-0-S20-000-G3	5~20	1870		334.4*61	2.63	-			
PTC-ASF-0500N-0-S30-000-G3	6~50	555		345.4*61	2.70	-	S 1/2"	OPT-STC-C1-V3-1300W OPT-HTC-C1-V3-1300W	
PTC-ASF-0800N-0-S30-000-G3	10~80	555		365.9*81	3.96	-			
PTC-ASF-1300N-0-S30-000-G3	20~130	444		380.9*81	4.77	-	S 3/4"		
PTC-ASF-2000N-0-S40-000-G3	30~200	293		386.4*81	4.92	-			

Screw Driver controller parameters

Model	OPT-STC-C1-V3-40W OPT-HTC-C1-V3-40W	OPT-STC-C1-V3-130W OPT-HTC-C1-V3-130W	OPT-STC-C1-V3-800W OPT-HTC-C1-V3-800W	OPT-STC-C1-V3-1300W OPT-HTC-C1-V3-1300W
Dimension/mm	145*205*111			
Weight/kg	1.9			
Voltage	220V AC			
Power/W	40	130	800	1300
Accuracy	Standard deviation ±2.5%			
Angle display min unit	0.1°			
Communication form	TCPIP、Modbus_TCP、IO			
Data storage	50 sets of Pset, 200000 sets of tightening results, 7" version with 5 historical curves			
Tightening strategy	Angle control, torque control, speed control, angle/torque control, self-learning strategy			

Tool cable

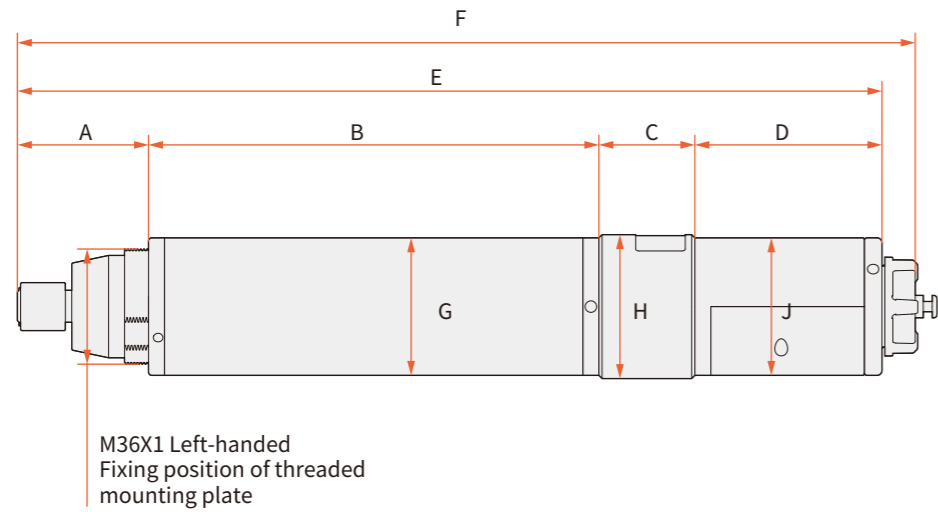
Tool cable model description



Tool cable parameters

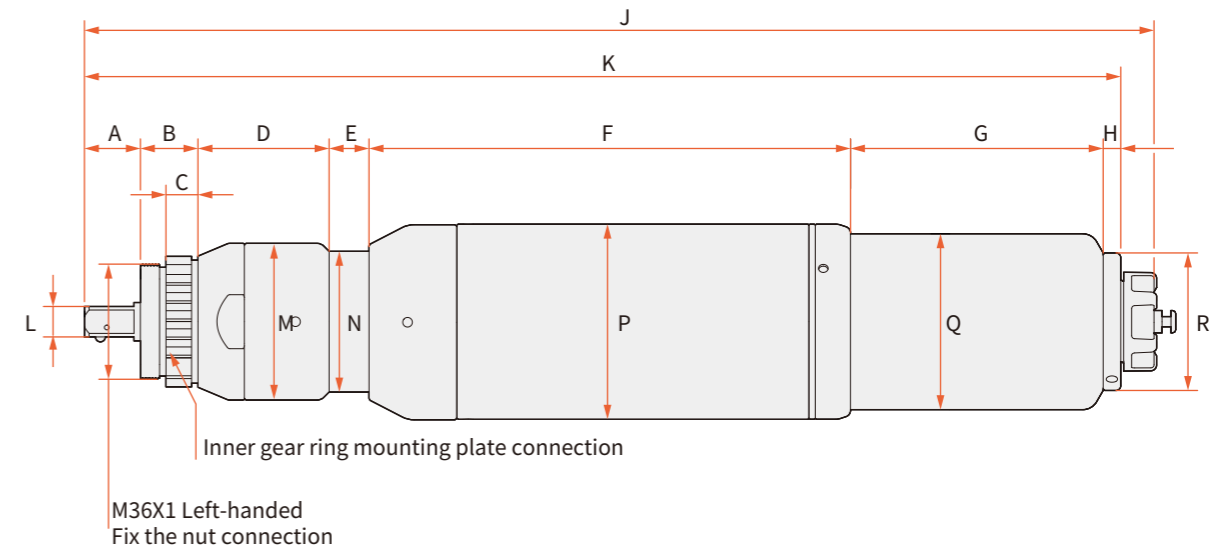
Model	OPT-SCT-00-V3-05	OPT-SCT-00-V3-10	OPT-SCT-00-V3-15	OPT-SCT-00-V3-20	OPT-SCT-00-V3-05-A	OPT-SCT-00-V3-10-A	OPT-SCT-00-V3-15-A	OPT-SCI-C1-V3-05
Category	Tool cable							IO cable
Cable head type	Straight handle				Angle			
Length/m	5	10	15	20	5	10	15	5

Overall Dimensions



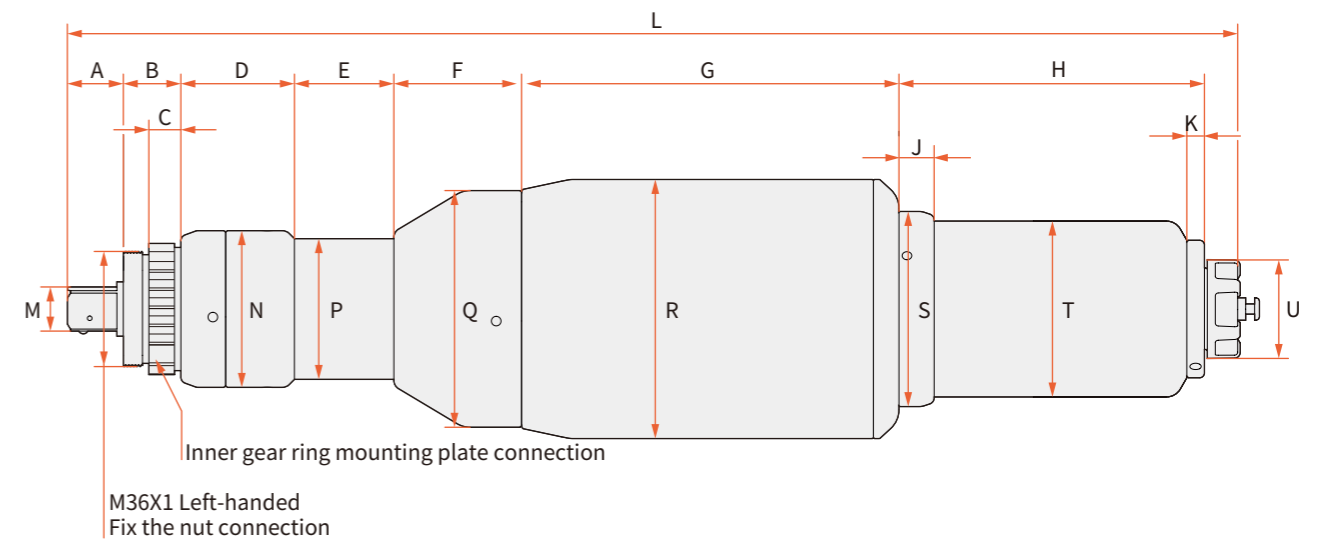
Unit:mm

Model	A	B	C	D	E	F	G	H	J
PTC-ASF-5000M-0-H10-000-G3	41.5	99.5			229.5	239.9			
PTC-ASF-0014N-0-H10-000-G3	41.5	99.5			229.5	239.9			
PTC-ASF-0045N-0-H10-000-G3	41	140.8	30	58.5	270.3	280.7	43	45	43
PTC-ASF-0070N-0-H10-000-G3	42	146.8			277.3	287.7			
PTC-ASF-0120N-0-H10-000-G3	43.5	158.8			290.8	301.2			



Unit:mm

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
PTC-ASF-0200N-0-S20-000-G3	17.5	18	10	41	12.5	150.4	79	5.5	334.4	324	9.52	49	44	61	55	43
PTC-ASF-0500N-0-S30-000-G3				35.5	29	155			349.9	339.5	12.7					



Unit:mm

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U
PTC-ASF-0800N-0-S30-000-G3	17.5	18	10	35.5	31.1	39.9		95.5	11		365.9	13.8	49	44					
PTC-ASF-1300N-0-S30-000-G3	18.5	20.5	12.5	43	42.3	37.3	118	95.5	11	5.5	385.9	12.7	66	56	74	81	61	55	43
PTC-ASF-2000N-0-S40-000-G3	16.5	23	10.5	40.5	42.3	37.3		95.2	10.7		383.6	19.1	66	56					

Accessory

Torque Arms

Bit

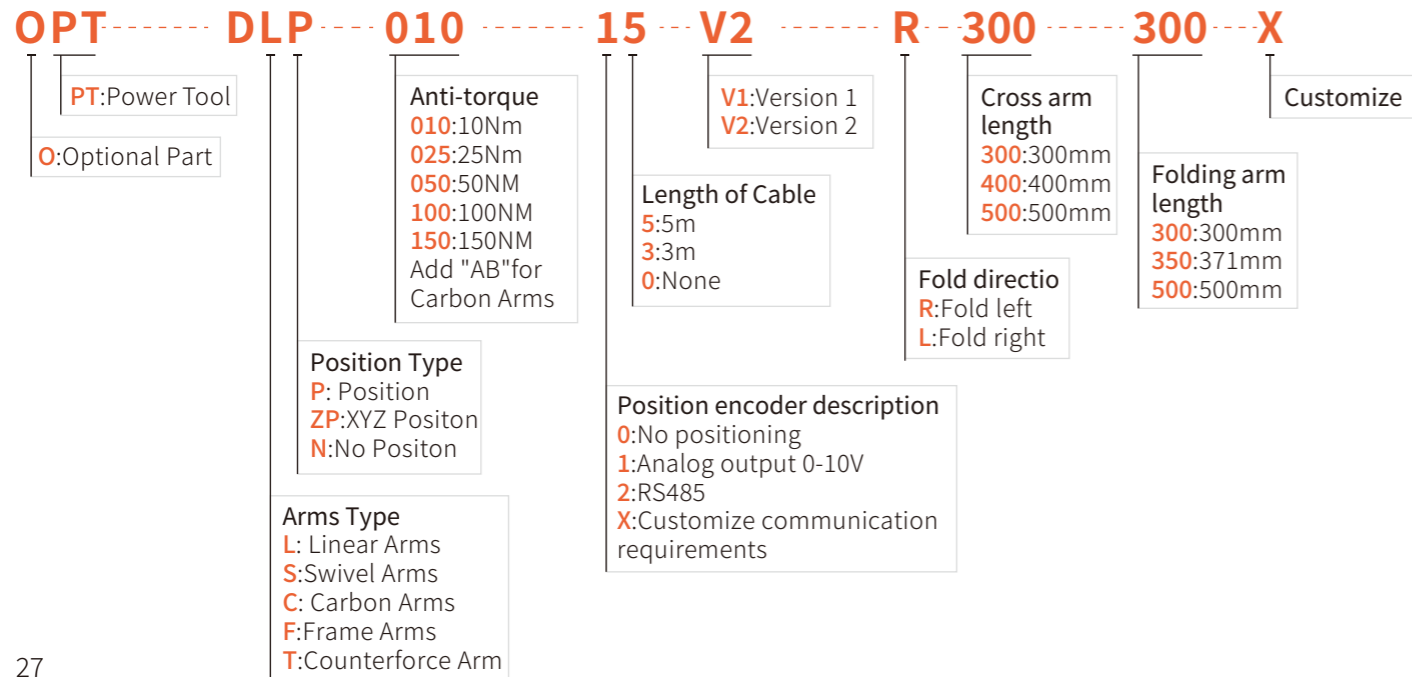
Bit selector

External control grip



Torque Arms

Model description



Linear Arms

Suitable for work benches or stations with sufficient space Maximum Anti-torque:
Vertical-150N, Horizontal-100Nm
 Simple and light structure and easy to use

Configurable:
 1 digital angle sensor
 1 displacement sensor(conversion module as standard, Analog signal converted into RS485) to accurately locate the tightening position

*Fixture are ordered separately.

Accessory

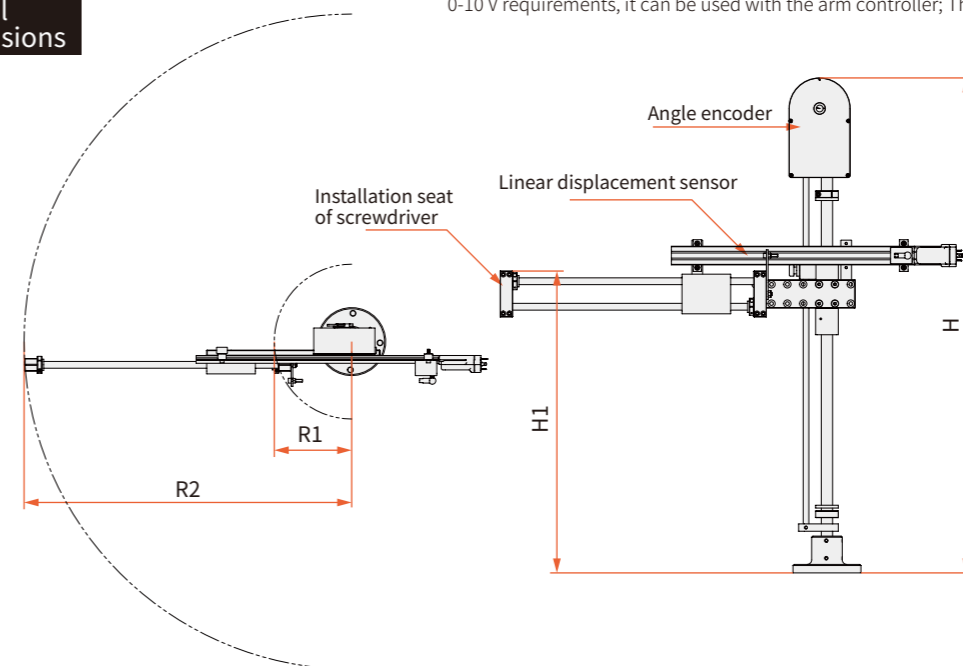


Parameters of Linear Arms

Model	OPT-DLN-010-00-V2-R	OPT-DLN-025-00-V2-R	OPT-DLN-050-00-V2-R	OPT-DLN-150-00-V2-R	OPT-DLP-010-25-V2-R	OPT-DLP-025-25-V2-R	OPT-DLP-050-25-V2-R	OPT-DLP-150-25-V2-R
Position Type	No-position	No-position	No-position	No-position	position	position	position	position
Encoder Type	-	-	-	-	RS485	RS485	RS485	RS485
Encoder cable length-m	-	-	-	-	5	5	5	5
Distinguishable Screw'spacing- mm	-	-	-	-	≥5	≥5	≥5	≥5
Max. vertical torque-Nm	10	25	50	150	10	25	50	50
Max. horizontal torque-Nm	8	20	35	100	8	20	35	35
Max. effective load-kg	0~1	1~3	3~5	5~14	0~1	1~3	3~5	3~5
Vertical distance-mm	400	400	500	500	400	400	500	500
Horizontal distance-mm	300	300	400	400	300	300	400	400
Min. working radius R1-mm	200	210	290	305	200	210	290	290
Max. working radius R2-mm	600	700	850	915	600	700	850	850
Max. height of installation H1-mm	625	625	735	719	625	625	735	735
Total Height H-mm	875	875	1021	1237	875	875	1021	1021

* Note: Model OPT-DLP-010-25-V2-R indicates that the encoder is an RS485 encoder,if the right arm has 0-10 V requirements, it can be used with the arm controller; The left arm can be designed as required.

Overall Dimensions



Swivel Arms

Suitable for work stations with limited space
 Maximum Anti-torque:
Vertical-150N, Horizontal-100Nm
 Simple and light structure and easy to use

Configurable:
 2 digital angle sensor to accurately locate
 the tightening position

*Fixture are ordered separately.

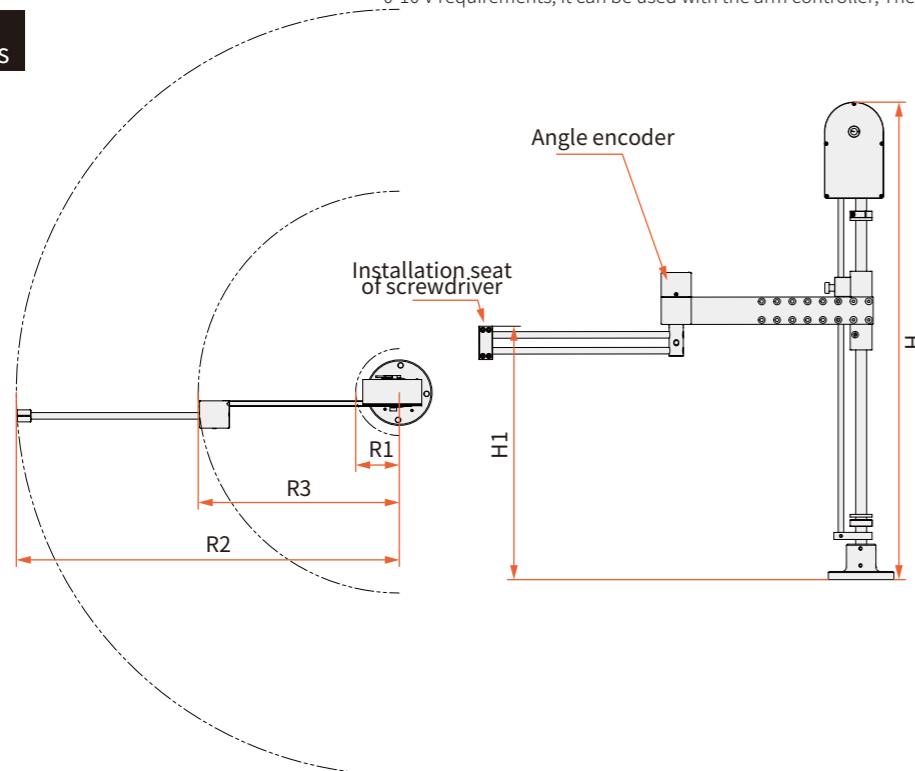


Parameters of Swivel Arms

Model	OPT-DSN-010-00-V2-R	OPT-DSN-025-00-V2-R	OPT-DSN-050-00-V2-R	OPT-DSN-150-00-V2-R	OPT-DSP-010-25-V2-R	OPT-DSP-025-25-V2-R	OPT-DSP-050-25-V2-R	OPT-DSP-150-25-V2-R
Position Type	No-position	No-position	No-position	No-position	position	position	position	position
Encoder Type	-	-	-	-	RS485	RS485	RS485	RS485
Encoder cable length-m	-	-	-	-	5	5	5	5
Distinguishable Screw spacing-mm	-	-	-	-	≥5	≥5	≥5	≥5
Max. vertical torque-Nm	10	25	50	150	10	25	50	150
Max. horizontal torque-Nm	8	20	35	100	8	20	35	100
Max. effective load-kg	0~1	1~3	3~5	5~14	0~1	1~3	3~5	5~14
Vertical distance-mm	400	400	500	500	400	400	500	500
Horizontal distance-mm	-	-	-	-	-	-	-	-
Min. working radius R1-mm	100	100	100	140	100	100	100	140
Max. working radius R2-mm	600	700	830	808	600	700	830	808
Max. height of installation H1-mm	560	560	670	615	560	560	670	615
Total Height H-mm	875	875	1021	1237	875	875	1021	1237

* Note: Model OPT-DSP-010-25-V2-R indicates that the encoder is an RS485 encoder, If the right arm has 0-10V requirements, it can be used with the arm controller; The left arm can be designed as required.

Overall Dimensions



Carbon Arms

Telescopic structure, easy to use,
 Wider work scope
Maximum Anti-torque: 200Nm
 New carbon material, lighter, move smoothly, strong torque resistance

Configurable:
 1 angle encoder
 1 pull cord encoder

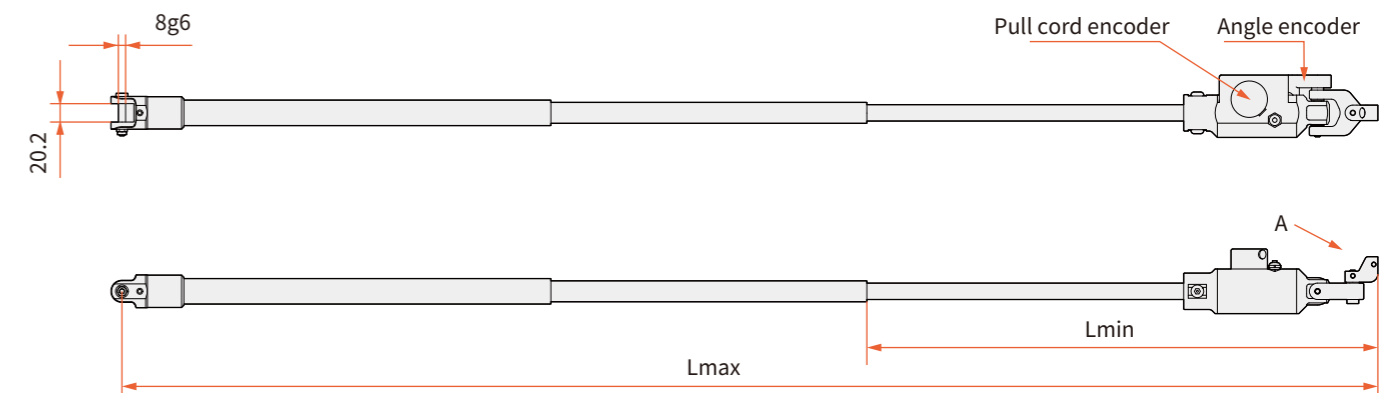
*Fixture and positioning controller and balancer ordered separately.



Parameters of Carbon Arms

Model	OPT-BCN-020A-00-V1-0	OPT-BCN-020B-00-V1-0	OPT-BCN-055A-00-V1-0	OPT-BCN-055B-00-V1-0	OPT-BCP-020A-15-V1-0	OPT-BCP-020B-15-V1-0	OPT-BCP-055A-15-V1-0	OPT-BCP-055B-15-V1-0
Position Type	No-position	No-position	No-position	No-position	Position	Position	Position	Position
Encoder Type	-	-	-	-	1 angle encoder and 1 pull cord encoder, both are outputting 0-10V			
Encoder cable length-m	-	-	-	-	5	5	5	5
Distinguishable Screw spacing-mm	-	-	-	-	≥20	≥20	≥20	≥20
Max. vertical torque-Nm	20	20	55	55	20	20	55	55
Lmax mm	460	627	559	743	587	809	688	872
Lmin mm	1000	1500	1250	1800	1127	1682	1379	1929
Extension Stroke distance-mm	540	873	691	1057	540	873	691	1057

Overall Dimensions



▶ Wall-mounted arm

The structure is compact and the configuration is flexible, and the sectional materials and other components on site can be used as the force arm support.

Made of carbon fiber, the arm of force is lighter to use, the cylinder is balanced, and the adjustment is more flexible.

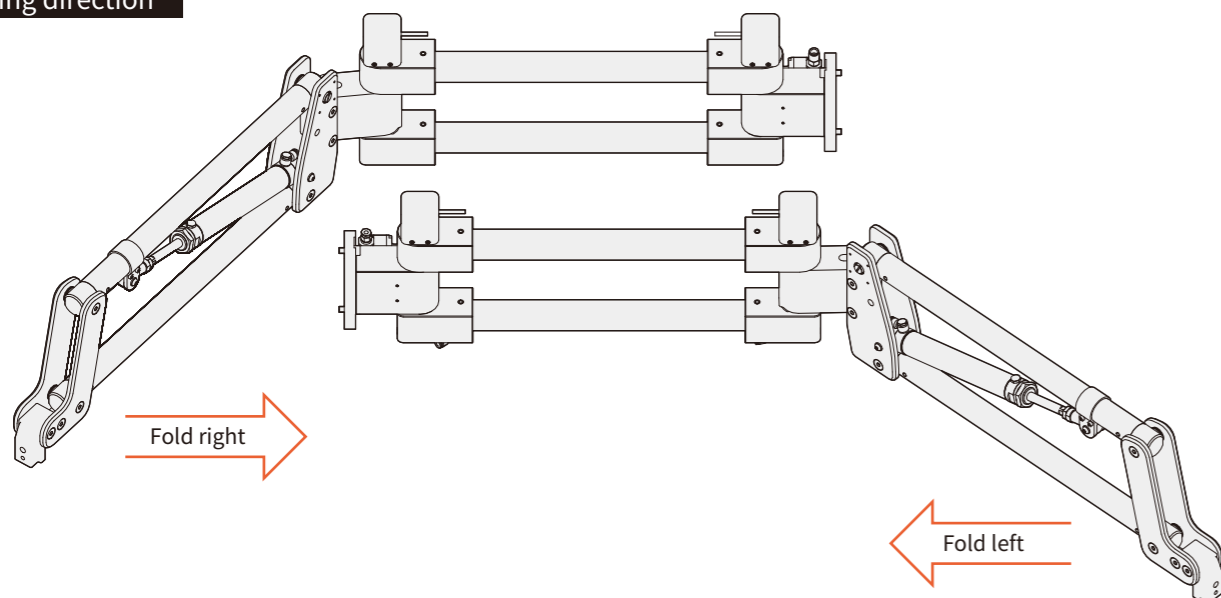
The front end can cover its own clamp and support customization.



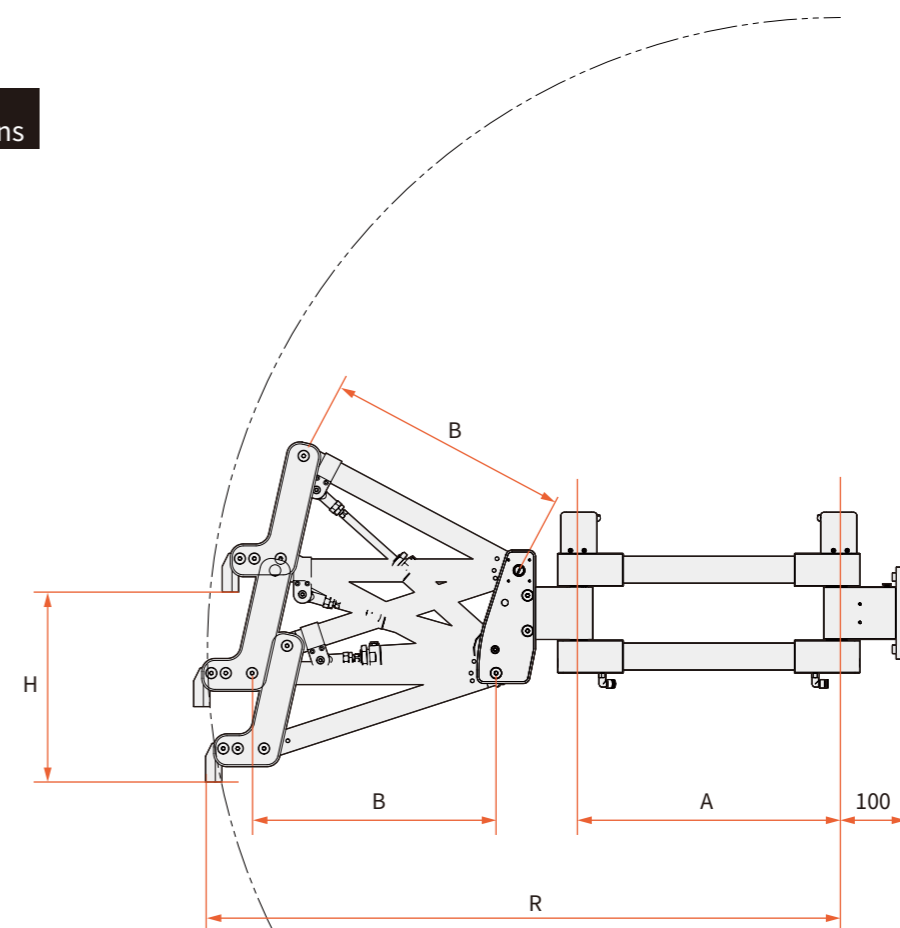
Wall-mounted arm Parameter

Model	Position Type	Category	Max. torque /Nm	Max. effective load /kg	Cross arm A /mm	Folding arm B /mm	Reach radius R /mm	Vertical distance H /mm
OPT-DTP-100-25-V1-R-300-300	Position 485	Fold right	100	8	300	300	812	228
OPT-DTP-100-25-V1-L-300-300		Fold left						
OPT-DTP-100-25-V1-R-400-350		Fold right			400	371	983	266
OPT-DTP-100-25-V1-L-400-350		Fold left						
OPT-DTP-100-25-V1-R-500-500		Fold right			500	500	1212	444
OPT-DTP-100-25-V1-L-500-500		Fold left						
OPT-DTN-100-00-V1-R-300-300	No-position	Fold right	100	8	300	300	812	228
OPT-DTN-100-00-V1-L-300-300		Fold left						
OPT-DTN-100-00-V1-R-400-350		Fold right			400	371	983	266
OPT-DTN-100-00-V1-L-400-350		Fold left						
OPT-DTN-100-00-V1-R-500-500		Fold right			500	500	1212	444
OPT-DTN-100-00-V1-L-500-500		Fold left						

Diagram of folding direction



Overall Dimensions



Arm Controller OPT-SFC-C1-V2

- Coordinate with Danikor positioning arm to realize orderly tightening and avoid human error;
- Permission management, the operator can run the display interface operation, higher authority can set parameters and system configuration;
- Can be quickly positioned and set, has the characteristics of high precision, multiple channels, rapid response and the like, and is convenient and flexible to operate;
- Can be matched with handheld screwdrivers and other supporting related applications;
- Support PLC communication and call tightening task;
- Matches the graphical task management capabilities of the N1 transducer screwdriver controller.



Bit

Model	TCA - Fixed	TCD - Handheld	TTD	TTC
Hex 1/4" 	PTC-ASF-5000M-0-H10-000-G3 PTC-ASF-0014N-0-H10-000-G3 PTC-ASF-0045N-0-H10-000-G3 PTC-ASF-0070N-0-H10-000-G3 PTC-ASF-0120N-0-H10-000-G3	PTC-DSH-0009N-33-H1P-000-B PTC-DSH-0020N-40-H1P-000-B PTC-DSH-0040N-40-H1P-000-B PTC-DSH-0080N-40-H1P-000-B PTC-DSH-0120N-40-H1P-000-B	PTT-DSH-7000M-34-H1D-000-B PTT-DSH-0012N-34-H1D-000-B PTT-DSH-0020N-37-H1D-000-B PTT-DSH-0040N-37-H1D-000-B PTT-DSH-0080N-37-H1D-000-B PTT-DSH-0120N-37-H1D-000-B	
HM4 		PTC-DSH-1000M-33-HMP-000-B PTC-DSH-2400M-33-HMP-000-B		
Square 3/8" 	PTC-ASF-0200N-0-S20-000-G3	PTC-DSH-0200N-40-S2P-000-B	PTT-DAH-0080N-37-S2P-000-B PTT-DAH-0120N-37-S2P-000-B PTT-DAH-0200N-37-S2P-000-B PTT-DSH-0200N-37-S2D-000-B	PTT-ASH-0200N-57-S2P-000-N1 PTT-AAH-0200N-57-S2P-000-N1 PTT-AAH-0350N-57-S2P-000-N1
Square 1/2" 	PTC-ASF-0500N-0-S30-000-G3 PTC-ASF-0800N-0-S30-000-G3 PTC-ASF-1300N-0-S30-000-G3			PTT-ASH-0350N-57-S3P-000-N1 PTT-ASH-0550N-57-S3P-000-N1 PTT-ASH-0800N-57-S3P-000-N1 PTT-ASH-1300N-70-S3P-000-N1 PTT-AAH-0550N-57-S3P-000-N1 PTT-AAH-0800N-57-S3P-000-N1 PTT-AAH-1300N-57-S3P-000-N1
Square 3/4" 	PTC-ASF-2000N-0-S40-000-G3			PTT-ASH-2000N-70-S4P-000-N1

Type	Graphics	Drive size	Drive type	Length	Specification	Scope of application
Internal Torx		1/4" E 6.3			TX8, TX10, TX15, TX20, TX25, TX30, TX40	Torx screw
Hexagon socket		3/8" E 9.5 1/2" E 12.7	Hex, HM, Square	50-300	HEX2,2.5,3,4,5,6,8,10	Hex screw
Philips Type H		1/4" E 19.05			PH0, PH1, PH2, PH3	Philips screw

Bit selector



Model	Category	Amount of bits	Cable length-m
OPT-B005-04SIO-05M	Bit program selector	4	5
OPT-B005-08SIO-05M	Bit program selector	8	5
OPT-B005-04BIO-05M	Nut program selector	4	5
OPT-B005-04BIO-05M	Nut program selector	8	5

External control grip



Model	Power	Push button switch	Reverse Switch	Station signal-OK	Screen	Installation method
OPT-HVS1	DC24V	1 NO	1 NO	YES	NO	Vertically, 2 threaded holes with 30mm distance
OPT-HTS1	DC24V	1 NO	1 NO	YES	NO	Ø35mm Ball joint installation, Tool installation part are ordered separately

Screwdriver accessories

It is suitable for tightening in the horizontal direction, improving the comfort of manual operation, stable grip, and ensuring more accurate tightening.

Auxiliary trigger for use with stationary tool handheld scene applications.

* For screwdrivers up to 12 Nm



Pistol grip
Adaptable screwdriver: TCA

Auxiliary trigger
Adaptable screwdriver: TTA