

Reserve the right to change the parameters of product selection. version: 23/07

## FOCUS ON QUALITY FOR INTELLIGENT MANUFACTURING

Provide More Reliable Solutions & Services For Automated Assembly



## CONTACT US

WUXI DANIKOR AUTOMATION TECHNOLOGY CO.,LTD.

 [www.danikor.com](http://www.danikor.com)

 No.49-1 Zhujiang Road, New District, Wuxi, Jiangsu, China

 [Hot-Line@danikor.com](mailto:Hot-Line@danikor.com)

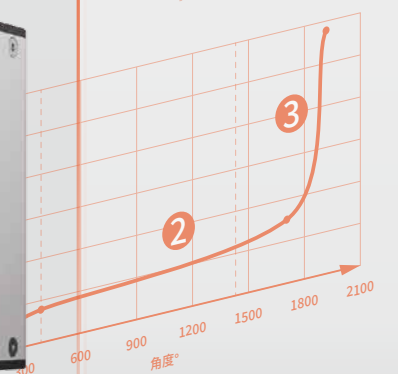
 +86 400 688 2356

**Danikor**  
Assembly Automation Technology

# Intelligent Screw Driver



$$\sigma = \sqrt{\frac{1}{N-1} \sum_{i=1}^N (X_i - \bar{X})^2}$$



0.05-105  
Nm

11W  
0.02-102

## ABOUT US

# Provide more Reliable Solutions & Services For Automated Assembly

## INFLUENCE

**10000+** Accumulated sales

**15%** Proportion of annual R & D investment to sales

**270+** employees  
Covering Whole China  
A branch in Frankfurt, Germany  
 Frankfurter Str. 74 64521 Gross-Gerau Germany

## INNOVATION

**98** items independent intellectual property rights

**10+** years experience in automation technology application

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

Founded in 2012, Danikor focuses on the R&D, manufacturing and sales of automatic feeding and intelligent tightening solutions. Over the past 11 years, Danikor has always insisted on independent innovation, and so far has 98 independent intellectual property rights, including 17 invention patents. We strive for excellence and create high-quality and public praise products. The whole series

Danikor makes your production more efficient

of products are widely used in many industries such as automobiles, electronics, home appliances, etc. We have set up a branch in Germany with a global business scope. Focus on quality for intelligent manufacturing. In the future, Danikor will continue to provide more reliable solutions and services for automated assembly, and help customers with sustainable productivity.

## 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 →

Product Series

**Fixed** Intelligent ScrewDriver



Accuracy

Fast

**Handheld** Intelligent ScrewDriver



Intelligent

Errorproofing

Convenient

0.05-105Nm

# Fixed Screw Driver

Application Industry:  
Automobile and parts,  
Electronics,  
Home appliances, etc.



## Five Advantages

### Accuracy

**±2.5%** Standard deviation 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

**5 STEP** **Multi-step tightening**  
Ensures accuracy and short time.

**3~9** **Multi-strategy**  
Ensure product quality and production efficiency.

**8 PEST** **Multi-Psets**  
Reduce setup time between different tightening requirement.

### Intelligent

**Nm** **275°** **1~5 STEP**  
Record and monitor the data of full tightening process.

**MES**  
Upload in real time to computer and MES system.

**2000 sets of data**  
It can store 2,000 groups of tightening results and can be expanded through SD card.

**Higher curve sampling frequency and Higher data recording traceability.**

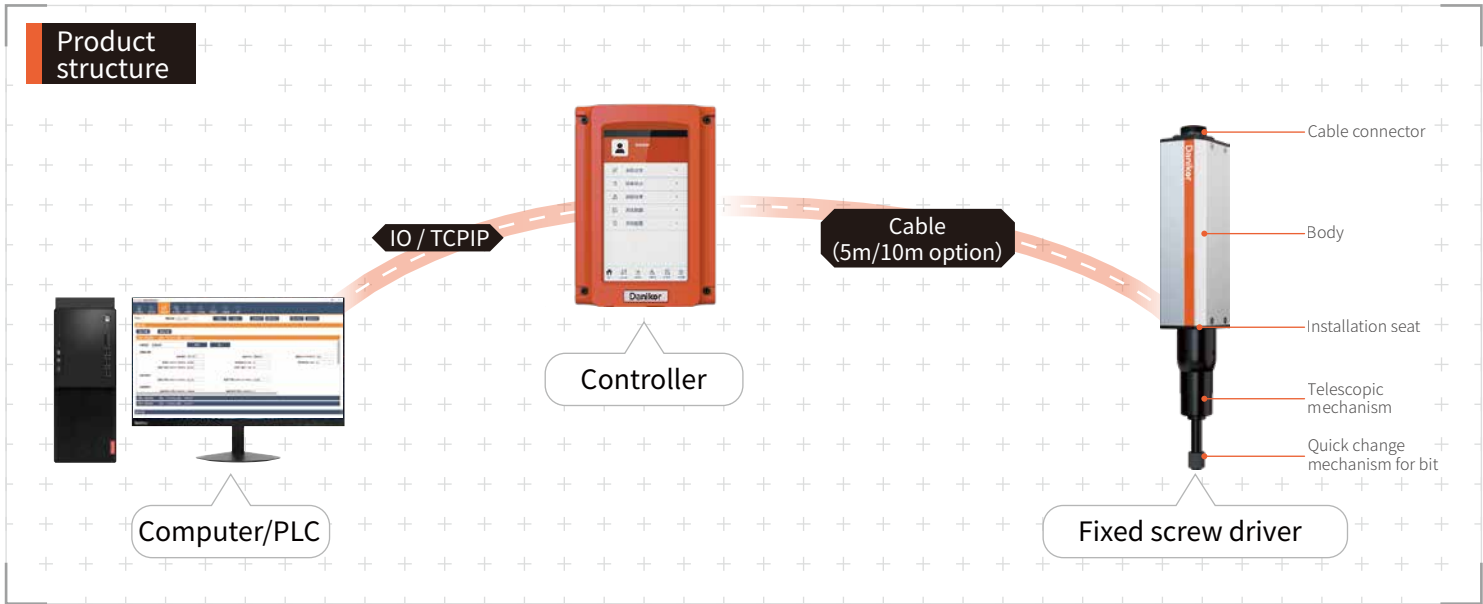
### Errorproofing

**Abnormal monitoring of tightening process**  
Based on the angle monitoring of threshold torque, it can more timely and effectively find the unqualified tightening conditions such as floating lock, sliding tooth, wrong and missing, gasket missing etc.

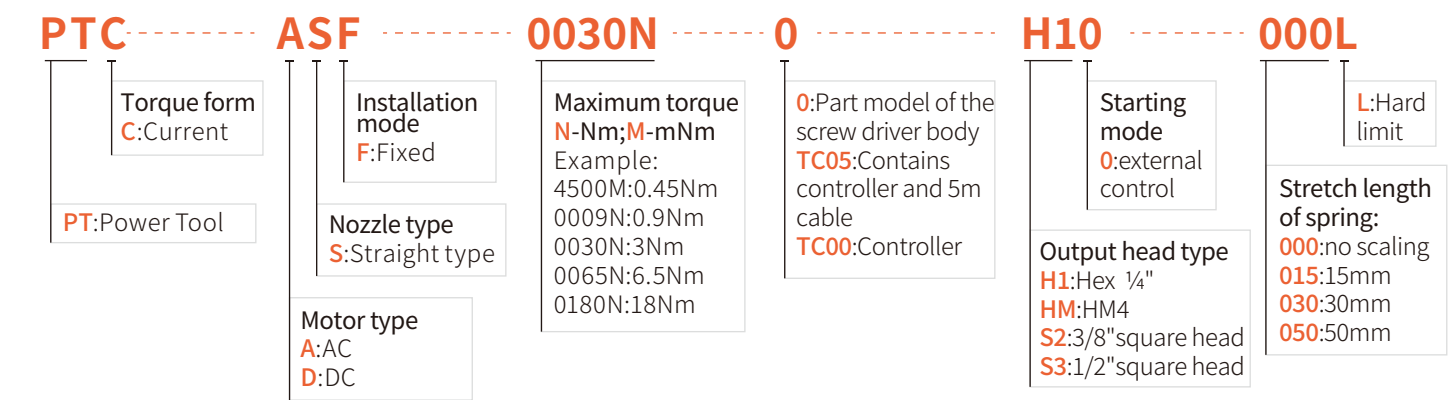
**Assembly process authority management**  
In the debugging interface, you need to enter the password to set the strategy and program.

### Convenient

**UI interaction is superior**  
It is convenient for the operator to set the strategy and data view.



### Screw driver product model description

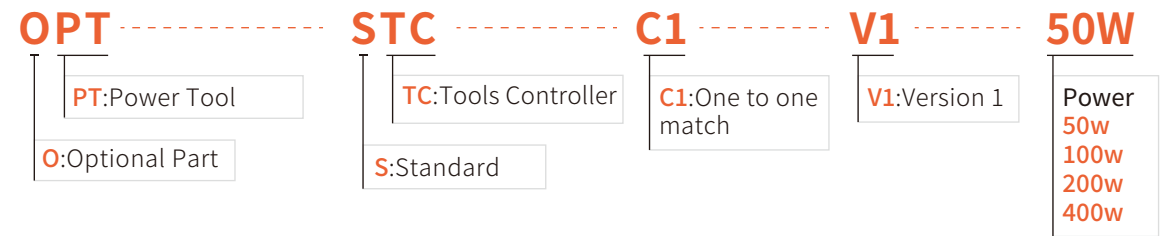


### Screw driver Product System Parameters

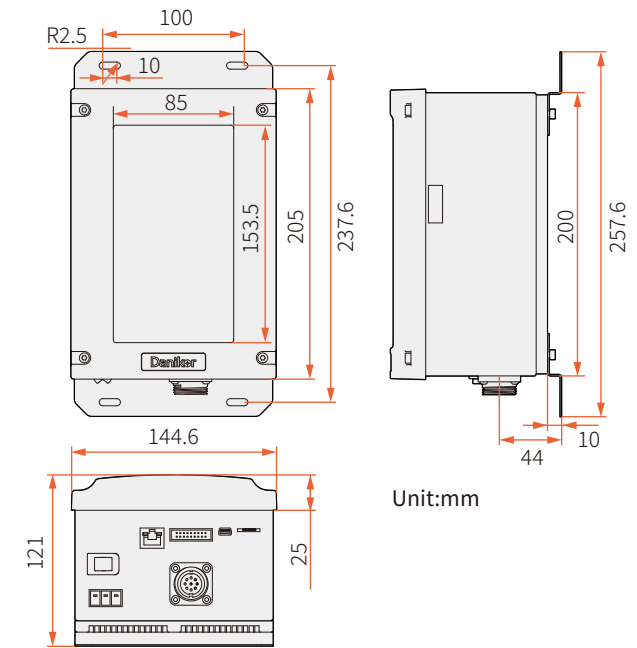
| Model                      | Max torque<br>/Nm | Max speed<br>/rpm | Accuracy | Dimension<br>/mm | Weight<br>/kg | Free range<br>of head/mm | Bit quick<br>connector | Screw driver<br>controller | Screw driver<br>cable                       |
|----------------------------|-------------------|-------------------|----------|------------------|---------------|--------------------------|------------------------|----------------------------|---------------------------------------------|
| PTC-ASF-4500M-0-HM0-000    | 0.05-0.45         | 1500              | ±2.5%    | 135*46*57        | 0.51          | -                        | HM4                    | OPT-STC-C1-V1<br>-50W      | 5m/10m/15m<br>Straight or<br>Angle optional |
| PTC-ASF-0009N-0-H10-000    | 0.09-0.9          | 1500              |          | 162.6*46*57      | 0.81          | -                        | Hex 1/4"               | OPT-STC-C1-V1<br>-100W     |                                             |
| PTC-ASF-0009N-0-H10-015(L) | 0.09-0.9          | 1500              |          | 206*46*57        | 0.78          | 15                       | Hex 1/4"               |                            |                                             |
| PTC-ASF-0030N-0-H10-000    | 0.5-3             | 950               |          | 236*46*57        | 1.35          | -                        | Hex 1/4"               |                            |                                             |
| PTC-ASF-0030N-0-H10-030(L) | 0.5-3             | 950               |          | 302*46*57        | 1.32          | 30                       | Hex 1/4"               |                            |                                             |
| PTC-ASF-0065N-0-H10-000    | 1.5-6.5           | 450               |          | 236*46*57        | 1.35          | -                        | Hex 1/4"               |                            |                                             |
| PTC-ASF-0065N-0-H10-030(L) | 1.5-6.5           | 450               |          | 302*46*57        | 1.36          | 30                       | Hex 1/4"               |                            |                                             |
| PTC-ASF-0070N-0-H10-030(L) | 1-7               | 830               |          | 361*70*82        | 2.99          | 30                       | Hex 1/4"               | OPT-STC-C1-V1<br>-200W     |                                             |
| PTC-ASF-0120N-0-H10-030(L) | 4-12              | 900               |          | 361*70*82        | 3.42          | 30                       | Hex 1/4"               | OPT-STC-C1-V1<br>-400W     |                                             |
| PTC-ASF-0180N-0-S20-030(L) | 3-18              | 180               |          | 321*46*57        | 1.66          | 30                       | Square 3/8"            | OPT-STC-C1-V1<br>-100W     |                                             |
| PTC-ASF-0270N-0-S20-030(L) | 5-27              | 450               |          | 361*70*82        | 3.46          | 30                       | Square 3/8"            | OPT-STC-C1-V1<br>-400W     |                                             |
| PTC-ASF-0520N-0-S30-050(L) | 12-52             | 240               |          | 450*70*82        | 4.51          | 50                       | Square 1/2"            |                            |                                             |
| PTC-ASF-1050N-0-S30-050(L) | 20-105            | 230               |          | 498*100*108      | 9.69          | 50                       | Square 1/2"            |                            |                                             |

\* (L) model: add hard limit, comprehensive clearance: 2-4mm.

### Screw Driver Controller Model Description



### Overall dimensions

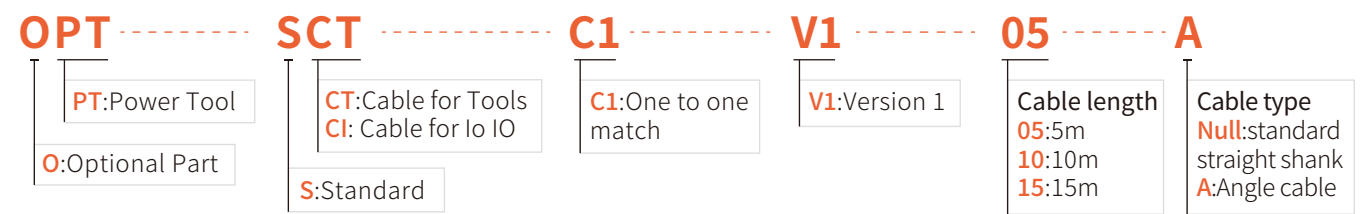


### Screw Driver controller parameters

| Model                  | OPT-STC-C1-V1-50W                                                                                             | OPT-STC-C1-V1-100W | OPT-STC-C1-V1-200W | OPT-STC-C1-V1-400W |
|------------------------|---------------------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|
| Dimension/mm           | 145*205*111                                                                                                   |                    |                    |                    |
| Weight/kg              | 1.9                                                                                                           |                    |                    |                    |
| Voltage                | 220V AC                                                                                                       |                    |                    |                    |
| Power/W                | 50                                                                                                            | 100                | 200                | 400                |
| Accuracy               | ±2.5%                                                                                                         |                    |                    |                    |
| Angle display min unit | 0.1°                                                                                                          |                    |                    |                    |
| Communication form     | IO/TCPIP                                                                                                      |                    |                    |                    |
| Data storage           | 8 sets of Pset, 5 historical curves, 2000 sets of tightening results                                          |                    |                    |                    |
| Tightening strategy    | One-step tightening, two-step tightening, self-tapping tightening strategy and customized tightening strategy |                    |                    |                    |

## Tool cable

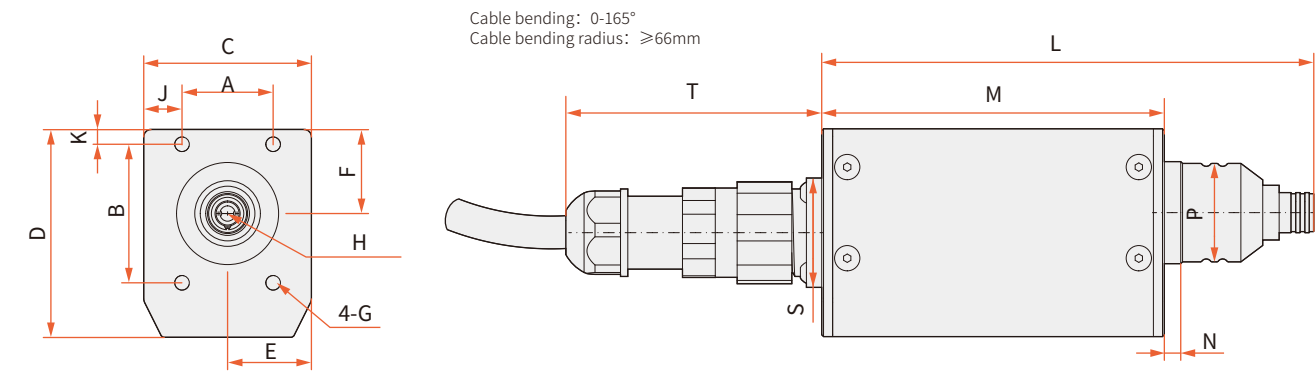
### Tool cable model description



### Tool cable parameters

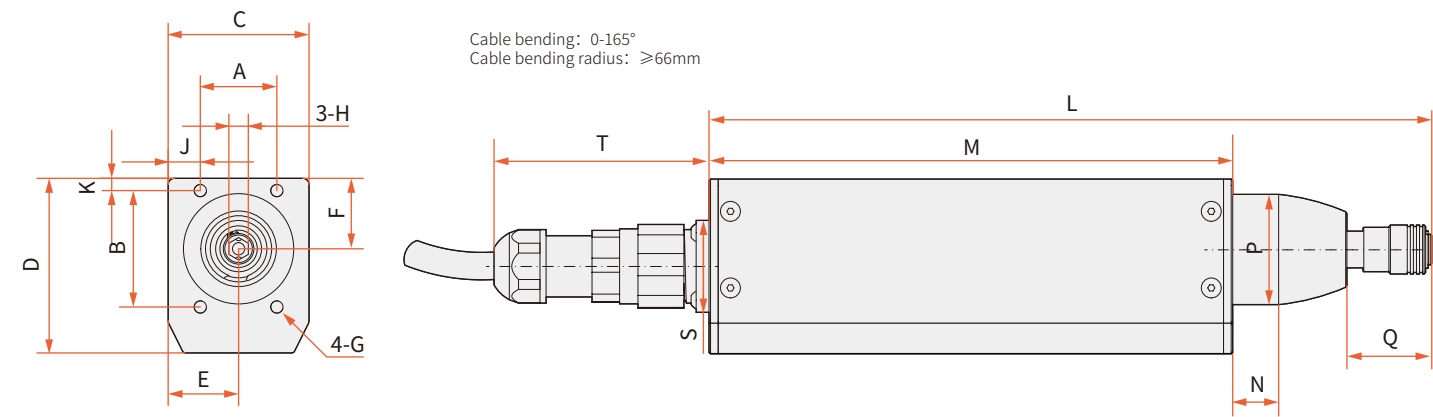
| Model           | OPT-SCT-00-V1-05 | OPT-SCT-00-V1-10 | OPT-SCT-00-V1-15 | OPT-SCT-00-V1-05-A | OPT-SCT-00-V1-10-A | OPT-SCT-00-V1-15-A | OPT-SCT-00-V1-05 |
|-----------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|------------------|
| Category        | Tool cable       |                  |                  |                    |                    |                    | IO cable         |
| Cable head type | Straight handle  |                  |                  | Angle              |                    |                    | -                |
| Length/m        | 5                | 10               | 15               | 5                  | 10                 | 15                 | 5                |

► Non-stretching stroke series



Unit:mm

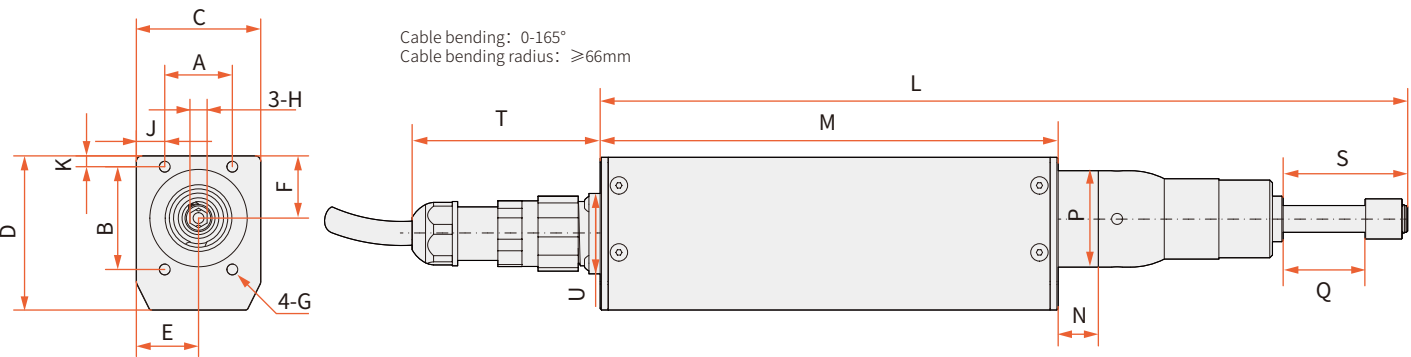
| Model                   | A  | B  | C  | D  | E  | F  | G    | H            | J    | K | L   | M  | N   | P     | S  | T  |
|-------------------------|----|----|----|----|----|----|------|--------------|------|---|-----|----|-----|-------|----|----|
| PTC-ASF-4500M-0-HM0-000 | 25 | 38 | 46 | 57 | 23 | 23 | M4T7 | 4.2<br>(HM4) | 10.5 | 4 | 135 | 94 | 4.5 | Ø28h7 | 30 | 70 |



Unit:mm

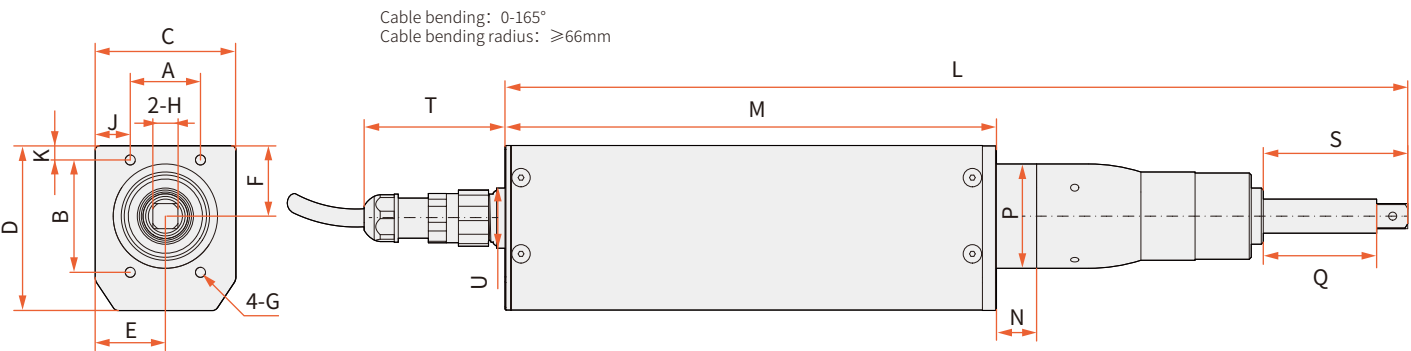
| Model                   | A  | B  | C  | D  | E  | F  | G    | H                 | J    | K | L     | M   | N  | P     | Q    | S  | T  |
|-------------------------|----|----|----|----|----|----|------|-------------------|------|---|-------|-----|----|-------|------|----|----|
| PTC-ASF-0009N-0-H10-000 |    |    |    |    |    |    |      |                   |      |   | 162.6 | 108 |    |       | 24.3 |    |    |
| PTC-ASF-0030N-0-H10-000 | 25 | 38 | 46 | 57 | 23 | 23 | M4T9 | 6.35<br>(HEX1/4") | 10.5 | 4 | 236   | 171 | 15 | Ø36h7 | 27.7 | 30 | 70 |
| PTC-ASF-0065N-0-H10-000 |    |    |    |    |    |    |      |                   |      |   |       |     |    |       |      |    |    |

► Stretching stroke series



Unit:mm

| Model                    | A  | B  | C  | D  | E  | F  | G    | H                 | J    | K | L   | M   | N  | P     | Q  | S  | T  | U  | Amount of expansion |
|--------------------------|----|----|----|----|----|----|------|-------------------|------|---|-----|-----|----|-------|----|----|----|----|---------------------|
| PTC-ASF-0009N-0-H10-015  |    |    |    |    |    |    |      |                   |      |   |     |     |    |       |    |    |    |    | 15                  |
| PTC-ASF-0009N-0-H10-015L |    |    |    |    |    |    |      |                   |      |   | 206 | 108 |    |       | 16 | 32 |    |    | 2-4                 |
| PTC-ASF-0030N-0-H10-030  | 25 | 38 | 46 | 57 | 23 | 23 |      |                   | 10.5 | 4 |     |     | 15 | Ø36h7 |    |    |    |    | 30                  |
| PTC-ASF-0030N-0-H10-030L |    |    |    |    |    |    |      |                   |      |   | 302 | 171 |    |       |    |    |    |    | 2-4                 |
| PTC-ASF-0065N-0-H10-030  |    |    |    |    |    |    |      |                   |      |   |     |     |    |       |    |    |    |    | 30                  |
| PTC-ASF-0065N-0-H10-030L |    |    |    |    |    |    | M4T8 | 6.35<br>(HEX1/4") |      |   |     |     |    |       | 30 | 46 | 70 | 30 | 2-4                 |
| PTC-ASF-0070N-0-H10-030  |    |    |    |    |    |    |      |                   |      |   |     |     |    |       |    |    |    |    | 30                  |
| PTC-ASF-0070N-0-H10-030L |    |    |    |    |    |    |      |                   |      |   |     |     |    |       |    |    |    |    | 2-4                 |
| PTC-ASF-0120N-0-H10-030  | 35 | 56 | 70 | 82 | 35 | 35 |      |                   | 17.5 | 7 | 361 | 223 | 21 | Ø39h7 |    |    |    |    | 30                  |
| PTC-ASF-0120N-0-H10-030L |    |    |    |    |    |    |      |                   |      |   |     |     |    |       |    |    |    |    | 2-4                 |



Unit:mm

| Model                    | A  | B  | C   | D   | E  | F  | G     | H              | J    | K  | L   | M   | N  | P     | Q    | S  | T  | U  | Amount of expansion |
|--------------------------|----|----|-----|-----|----|----|-------|----------------|------|----|-----|-----|----|-------|------|----|----|----|---------------------|
| PTC-ASF-0180N-0-S20-030  | 27 | 38 | 46  | 57  | 23 | 23 |       |                | 9.5  | 4  | 321 | 190 | 14 |       |      |    |    |    | 30                  |
| PTC-ASF-0180N-0-S20-030L |    |    |     |     |    |    | M4T8  | 9.52<br>(3/8") |      |    |     |     |    | Ø39h7 | 35   | 46 |    |    | 2-4                 |
| PTC-ASF-0270N-0-S20-030  |    |    |     |     |    |    |       |                |      |    |     |     |    |       |      |    |    |    | 30                  |
| PTC-ASF-0270N-0-S20-030L |    |    |     |     |    |    |       |                |      |    |     |     |    |       |      |    |    |    | 2-4                 |
| PTC-ASF-0520N-0-S30-050  | 35 | 56 | 70  | 82  | 35 | 35 |       |                | 17.5 | 7  |     |     |    |       |      |    | 70 | 30 | 50                  |
| PTC-ASF-0520N-0-S30-050L |    |    |     |     |    |    | M5T10 |                |      |    | 450 | 245 | 20 |       |      |    |    |    | 2-4                 |
| PTC-ASF-1050N-0-S30-050  |    |    |     |     |    |    |       |                |      |    |     |     |    |       |      |    |    |    | 50                  |
| PTC-ASF-1050N-0-S30-050L | 55 | 80 | 100 | 108 | 50 | 50 | M6T12 | 12.5<br>(1/2") | 22.5 | 10 | 498 | 287 | 26 | Ø52h7 | 56.5 | 72 |    |    | 2-4                 |

0.05-11Nm

# Handheld Screw Driver

Application Industry:



New energy vehicles



automotive electronics



automotive parts



3 C



Communication



Home appliances



medical care



## Five Advantages



### Accuracy



±2.5%

Standard deviation accuracy over the full torque range.



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



Self-developed high precision algorithm control.

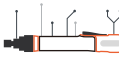


### Fast



15 STEP

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



16 PEST

**More tightening strategies**  
Guarantee tightening quality.



16 PEST

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



16 PEST

**More tightening jobs**  
Automatically switch between different Psets



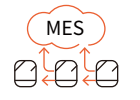
### Intelligent



Nm

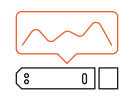
1-5 STEP

Record and monitor the data of full tightening process.



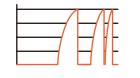
MES

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



Data storage

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

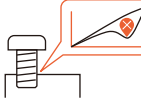


Data traceability

**Data traceability**  
Multiple curves are superimposed to facilitate depth analysis.



### Errorproofing



Monitoring of abnormal tightening process

**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

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

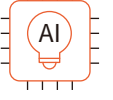


Job planning and superposition protection

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



### Convenient



Automatically learn

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



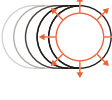
Superior human-computer interaction

**Superior human-computer interaction**  
Visual OLED display screen, 3-color light (such as NG red), buzzer and front light is convenient for operators to use.



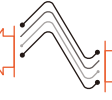
Multiple startup forms

**Multiple startup forms**  
It can be handheld or fixed with machine, and handheld can be pressed down, triggered or remotely activated.



Rapid expansion port

**Rapid expansion port**  
Threaded external connection for quick matching vacuum suction nozzle and a fixed structure.



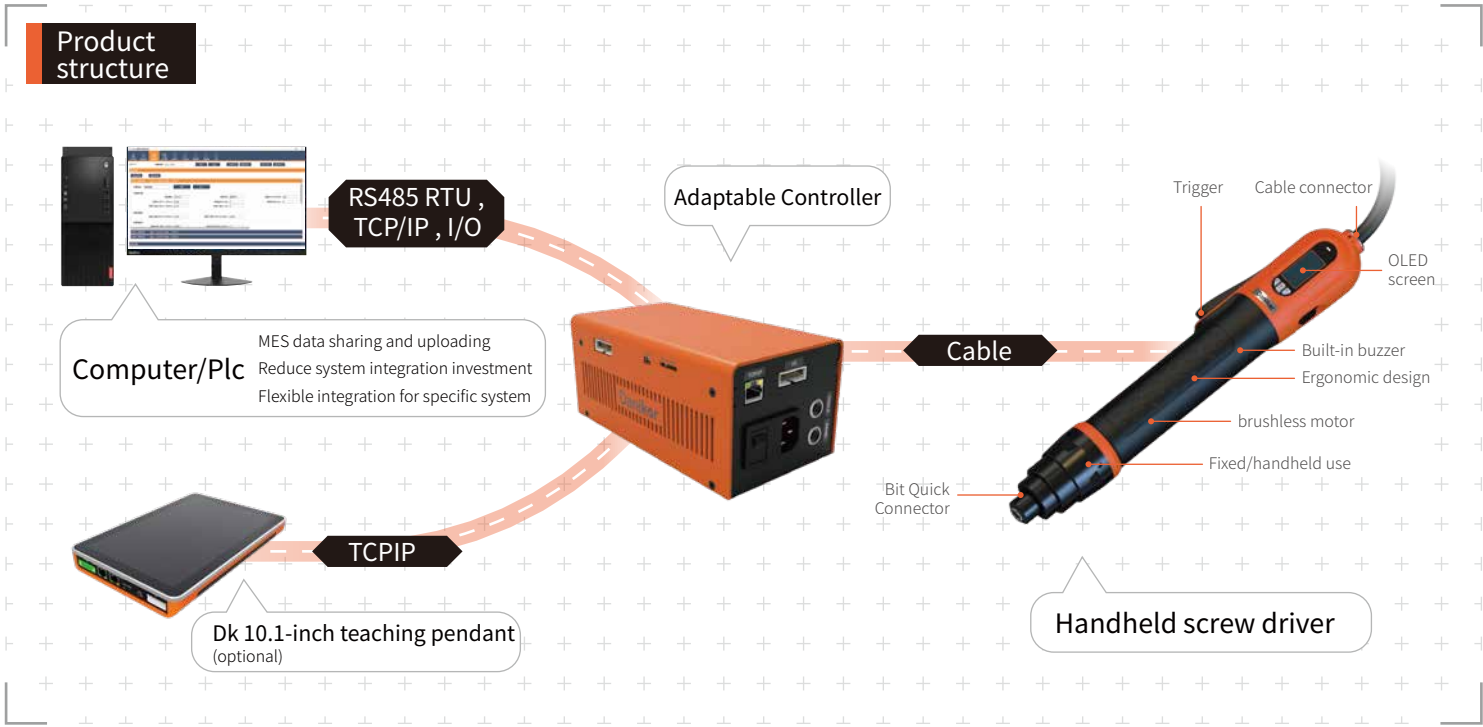
Multiple communication forms

**Multiple communication forms**  
RS485 RTU, TCP/IP open Protocol, extended digital I/O interface.

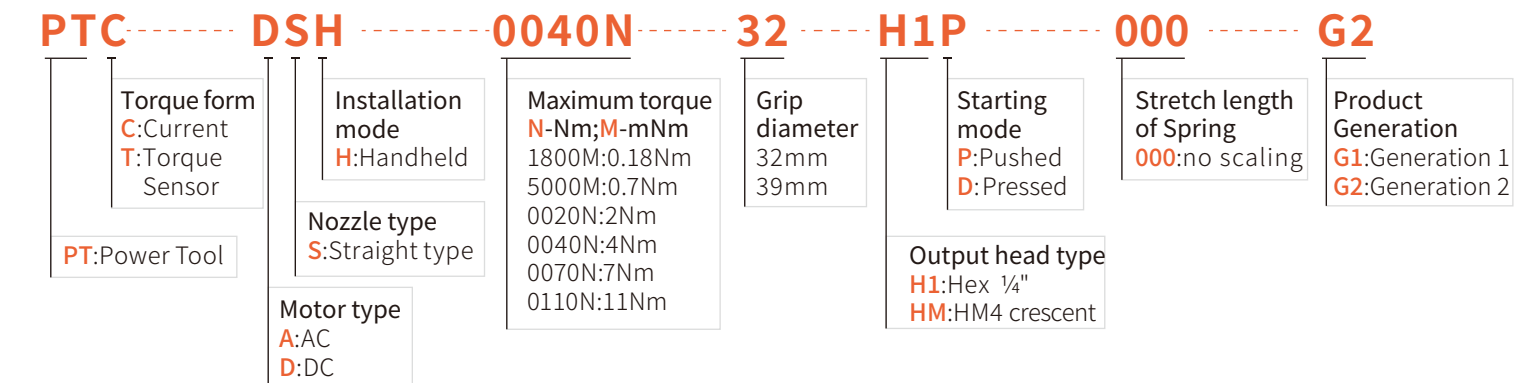


Multiple functions optional

**Multiple functions optional**  
Optional teaching pendant or communication module, real-time data viewing and parameter setting.



### Screw driver product model description



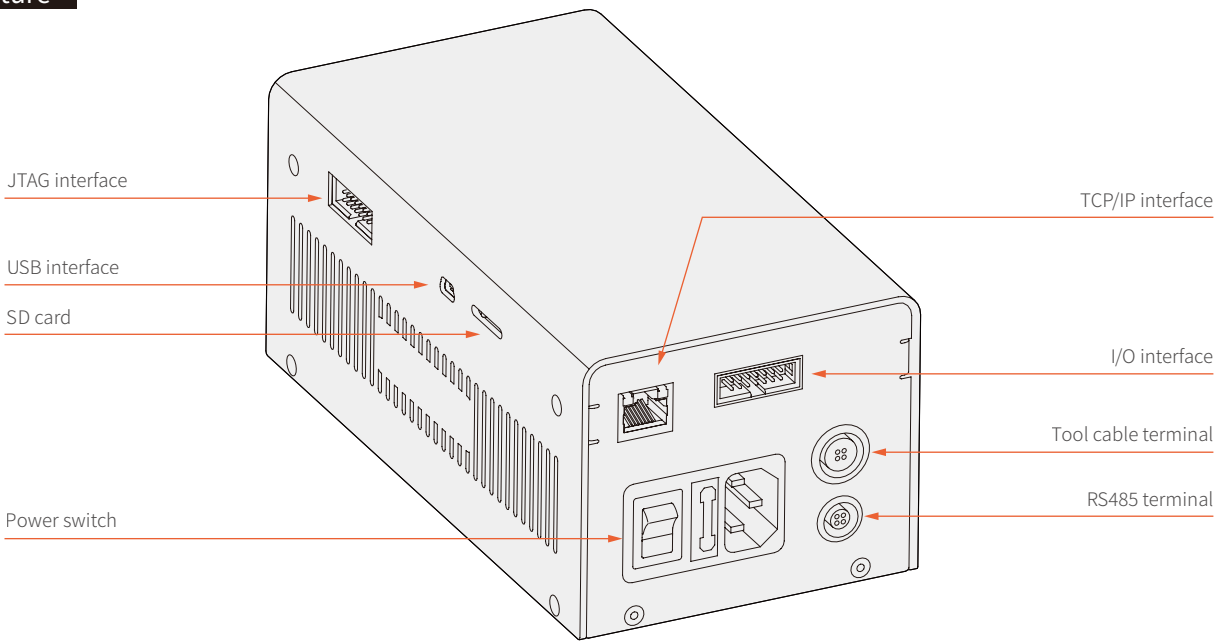
### Screw driver Product System Parameters

|         | Model                       | Max torque /Nm | Max speed /rpm | Dimension L*D1 | Grip diameter /mm | Weight /g | Design life | MTTF       | Bit quick connector | Starting mode         | Screw driver controller | Screw driver cable |
|---------|-----------------------------|----------------|----------------|----------------|-------------------|-----------|-------------|------------|---------------------|-----------------------|-------------------------|--------------------|
| Pushed  | PTC-DSH-1800M-32-HMP-000-G2 | 0.05-0.18      | 1500           | 238*36         | 32                | 436       | >10 million | >1 million | HM4                 | Pushed/Remote         | OPT-STC-DC1-V2-500W     | OPT-SCT-V2-DC1-05  |
|         | PTC-DSH-5000M-32-H1P-000-G2 | 0.1-0.7        | 1500           | 241*36         | 32                | 466       |             |            |                     |                       |                         |                    |
|         | PTC-DSH-0020N-32-H1P-000-G2 | 0.7-2          | 950            | 241*36         | 32                | 486       |             |            |                     |                       |                         |                    |
|         | PTC-DSH-0040N-39-H1P-000-G2 | 1-4            | 900            | 266.3*46       | 39                | 632       |             |            |                     |                       |                         |                    |
|         | PTC-DSH-0070N-39-H1P-000-G2 | 1.6-7          | 900            | 266.3*46       | 39                | 717       |             |            |                     |                       |                         |                    |
| Pressed | PTC-DSH-0110N-39-H1P-000-G2 | 2-11           | 700            | 266.3*46       | 39                | 827       | >10 million | >1 million | Hex 1/4"            | Pushed/Pressed/Remote | OPT-STC-DC2-V2-500W     | OPT-SCT-V2-DC2-05  |
|         | PTC-DSH-1800M-32-HMD-000-G2 | 0.05-0.18      | 1500           | 242.2*36       | 32                | 465       |             |            |                     |                       |                         |                    |
|         | PTC-DSH-5000M-32-H1D-000-G2 | 0.1-0.7        | 1500           | 246.9*36       | 32                | 495       |             |            |                     |                       |                         |                    |
|         | PTC-DSH-0020N-32-H1D-000-G2 | 0.7-2          | 950            | 246.9*36       | 32                | 515       |             |            |                     |                       |                         |                    |
|         | PTC-DSH-0040N-39-H1D-000-G2 | 1-4            | 900            | 279.5*46       | 39                | 765       |             |            |                     |                       |                         |                    |
|         | PTC-DSH-0070N-39-H1D-000-G2 | 1.6-7          | 900            | 279.5*46       | 39                | 850       |             |            |                     |                       |                         |                    |
|         | PTC-DSH-0110N-39-H1D-000-G2 | 2-11           | 700            | 279.5*46       | 39                | 960       |             |            |                     |                       |                         |                    |

## Tool Adaptor Controller

Intelligent handheld screw driver

### Product structure



### Screw Driver controller parameters

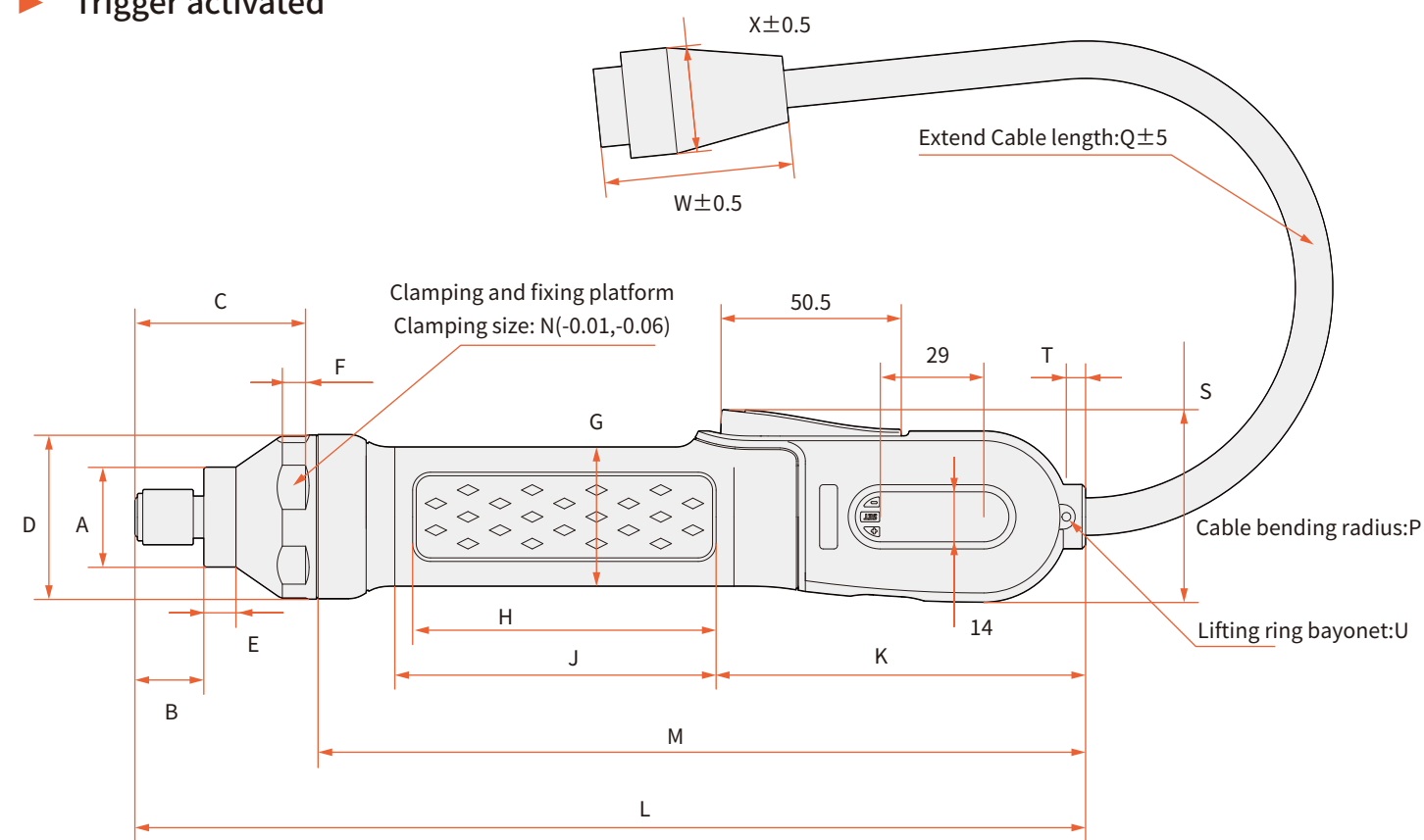
| Model                  | OPT-STC-DC1-V2-500W / OPT-STC-DC2-V2-500W                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------|
| Dimension/mm           | 197*86.25*104.5                                                                                            |
| Weight                 | ≈1.75kg                                                                                                    |
| Voltage                | DC 24V                                                                                                     |
| Accuracy               | ±2.5%                                                                                                      |
| Angle display/min unit | 0.1°                                                                                                       |
| Communication form     | RS485/TCP/IP/IO interface                                                                                  |
| Data storage           | 10,000 group of local tightening results, supporting data upload 16 Job settings, 16 Pset                  |
| Tightening strategy    | Angle control, torque control, speed control, angle/torque control,self-learning strategy, custom strategy |

### Teaching pendant and software

- A simple task is set through that display screen on the intelligent tighten tool body, which is convenient and quick.
- Teaching pendant or software can be selected for detailed parameter setting and programming to meet the needs of different tightening applications, and relevant data can be checked in real time to find quality problems in time and reduce losses.



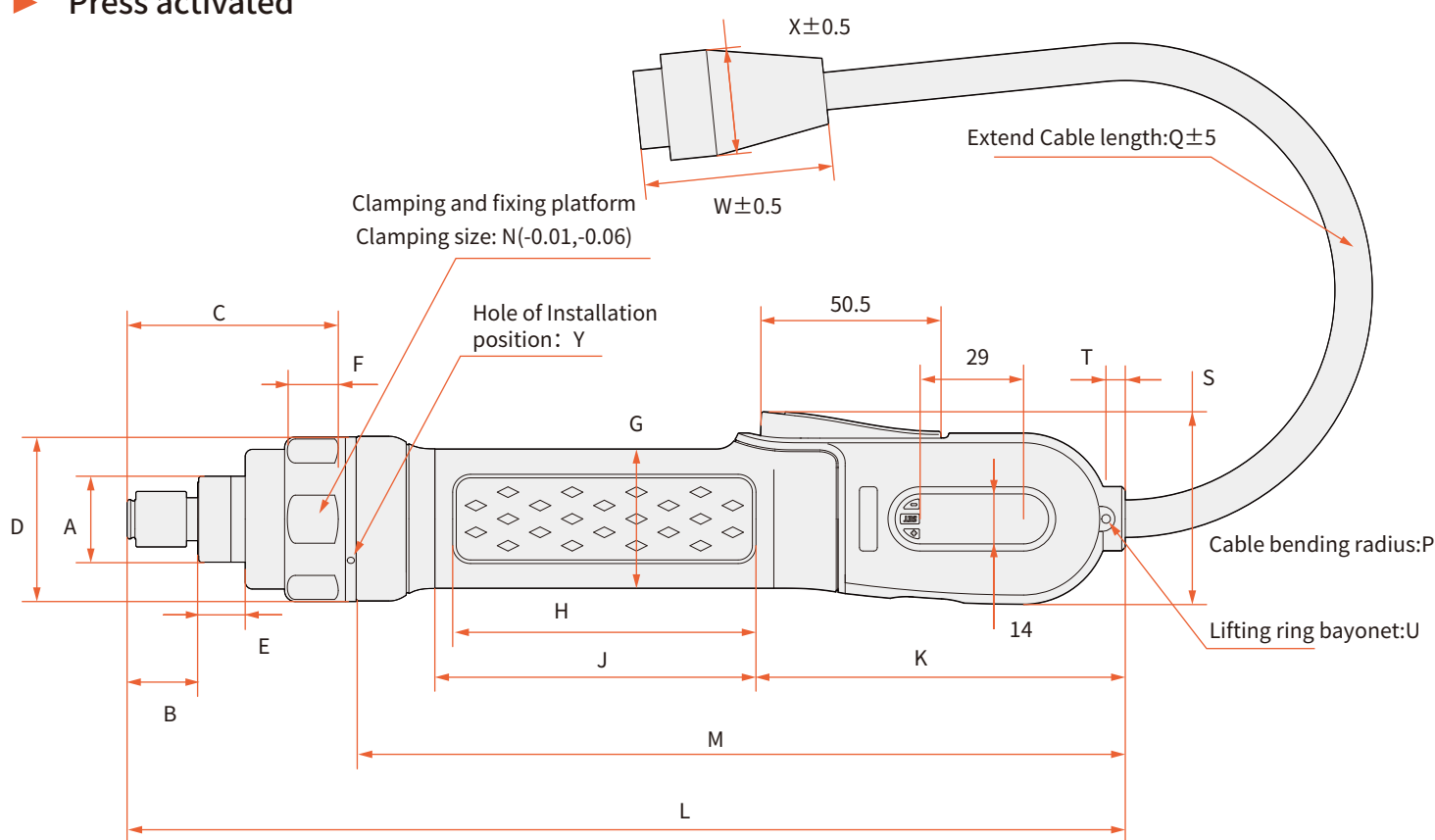
▶ Trigger activated



Unit:mm

[illegible]

▶ Press activated



Unit:mm

[illegible]

0.14-20Nm

# Transducer Tightening

Transducer tightening screw driver is powerful and can achieve high-precision tightening, which can also make sure the consistency of tightening torque.

Real-time feedback of relevant data and provide data traceability function, so as to provide users with higher quality products.

## Screw Driver

Application Industry:



New energy vehicles



automotive electronics



automotive parts

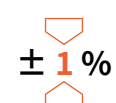


3 C



## Five Advantages

### Accuracy



Standard deviation 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.

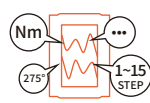


**More tightening Psets**  
Reduce setup time between different tightening requirements.

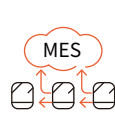


**More tightening jobs**  
Automatically switch between different Psets.

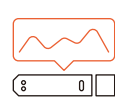
### Intelligent



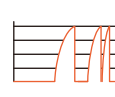
Record and monitor the data of full tightening process.



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

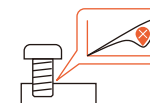


**Data storage**  
Controller local  
50,000 Tightening Result  
50,000 group alarm.



**Data traceability**  
Multiple curves are superimposed to facilitate depth analysis.

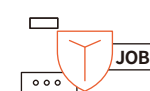
### Errorproofing



**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.

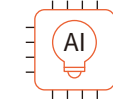


**Assembly process authority management**  
In the debugging interface, you need to enter the password to set the strategy and program.



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

### Convenient



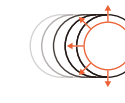
**Automatically learn**  
Automatically recommend the reference parameter range, and quickly build the tightening strategy.



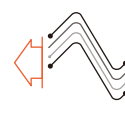
**Superior human-computer interaction**  
Visual OLED display screen, 3-color light (such as NG red), buzzer and front light is convenient for operators to use.



**Multiple startup forms**  
It can be handheld or fixed with machine, and handheld can be pressed down, triggered or remotely activated.



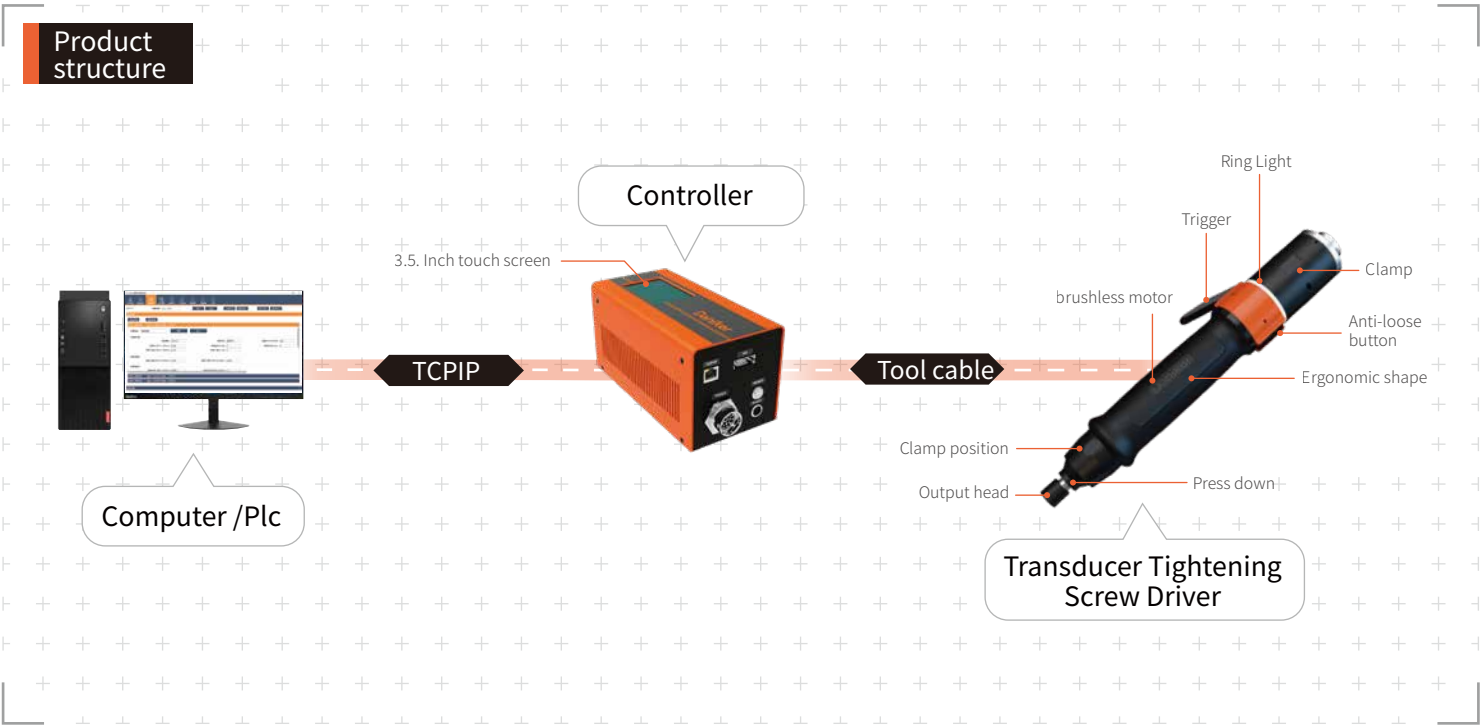
**Rapid expansion port**  
Threaded external connection for quick matching vacuum suction nozzle and a fixed structure.



**Multiple communication forms**  
RS485 RTU, TCP/IP open Protocol, extended digital I/O interface.



**Multiple functions optional**  
Optional teaching pendant or communication module, real-time data viewing and parameter setting.



**Screw driver Product System Parameters**

| Model                       | Max torque /Nm | Max speed /rpm | Grip diameter /mm | Design life | MTTF       | Bit quick connector | Starting mode           | Screw driver controller                   | Screw driver cable |
|-----------------------------|----------------|----------------|-------------------|-------------|------------|---------------------|-------------------------|-------------------------------------------|--------------------|
| PTT-DSH-7000M-36-HMD-000-G3 | 0.14-0.7       | 3000           | 36                | >10 million | >1 million | HM4                 | Pushed/ Pressed/ Remote | OPT-STC-DC1-V3-500W / OPT-STC-DC2-V3-500W | OPT-SCT-V3-DC-05   |
| PTT-DSH-7000M-36-H1D-000-G3 | 0.14-0.7       | 3000           | 36                |             |            | HEX1/4"             |                         |                                           |                    |
| PTT-DSH-0012N-36-H1D-000-G3 | 0.24-1.2       | 1500           | 36                |             |            | HEX1/4"             |                         |                                           |                    |
| PTT-DSH-0020N-39-H1D-000-G3 | 0.4-2          | 3000           | 39                |             |            | HEX1/4"             |                         |                                           |                    |
| PTT-DSH-0040N-39-H1D-000-G3 | 0.8-4          | 1500           | 39                |             |            | HEX1/4"             |                         |                                           |                    |
| PTT-DSH-0080N-39-H1D-000-G3 | 1.6-8          | 960            | 39                |             |            | HEX1/4"             |                         |                                           |                    |
| PTT-DSH-0120N-39-H1D-000-G3 | 2.4-12         | 700            | 39                |             |            | HEX1/4"             |                         |                                           |                    |
| PTT-DSH-0200N-39-H1D-000-G3 | 4-20           | 300            | 39                |             |            | S 3/8               |                         |                                           |                    |

# Tool Adaptor Controller OPT-STC-V3-DC

Transducer tightening screw driver

**Product structure**



**Screw Driver controller parameters**

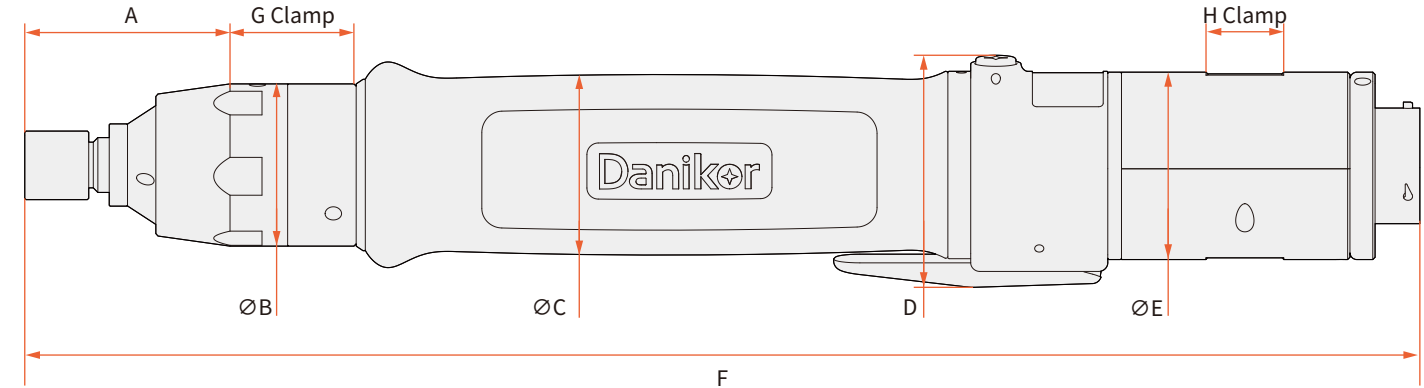
| Model                  | OPT-STC-DC1-V3-500W / OPT-STC-DC2-V3-500W                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimension/mm           | 231.2*104.5*103                                                                                                                                     |
| Voltage                | 24V                                                                                                                                                 |
| Accuracy               | Standard deviation $\pm 1\%$                                                                                                                        |
| Controller screen      | 3.5 inch touch screen                                                                                                                               |
| Reset button           | For some system alarms, the reset button can be pressed directly                                                                                    |
| Angle display min unit | 0.1°                                                                                                                                                |
| Communication form     | RS485/TCP/IP/IO interface                                                                                                                           |
| Data storage           | 50,000 data/50,000 alarms                                                                                                                           |
| Tighten management     | 50Job settings, 50 Pset                                                                                                                             |
| Tightening strategy    | Angle control, torque control, speed control, angle/torque control, clamping torque control, self-learning strategy, and custom tightening strategy |

**Teaching pendent and software**

- Simple task settings are made through the display screen of the controller, which is convenient and fast.
- Teaching pendant or software can be selected for detailed parameter setting and programming to meet the needs of different tightening applications, and relevant data can be checked in real time to find quality problems in time and reduce losses.



**Overall dimensions**



Unit:mm

| model                       | A    | B    | C    | D    | E  | F     | G Clamp | H Clamp | Output head form |
|-----------------------------|------|------|------|------|----|-------|---------|---------|------------------|
| PTT-DSH-7000M-36-HMD-000-G3 | 49.5 | 34   | 35.5 | 57.9 | 41 | 280.4 | 15.1    | 16      | HM4 crescent     |
| PTT-DSH-7000M-36-H1D-000-G3 | 49.5 | 34   | 35.5 | 57.9 | 41 | 280.4 | 15.1    | 16      | HEX1/4"          |
| PTT-DSH-0012N-36-H1D-000-G3 | 49.5 | 34   | 35.5 | 57.9 | 41 | 291.4 | 24.1    | 16      | HEX1/4"          |
| PTT-DSH-0020N-39-H1D-000-G3 | 46.4 | 35.5 | 39.5 | 57.9 | 41 | 289.3 | 10      | 16      | HEX1/4"          |
| PTT-DSH-0040N-39-H1D-000-G3 | 46.8 | 35.5 | 39.5 | 57.9 | 41 | 298.4 | 19.07   | 16      | HEX1/4"          |
| PTT-DSH-0080N-39-H1D-000-G3 | 46.8 | 35.5 | 39.5 | 57.9 | 41 | 305.4 | 27.61   | 16      | HEX1/4"          |
| PTT-DSH-0120N-39-H1D-000-G3 | 46.8 | 35.5 | 39.5 | 57.9 | 41 | 305.4 | 27.61   | 16      | HEX1/4"          |
| PTT-DSH-0200N-39-H1D-000-G3 | 46.3 | 35.5 | 39.5 | 57.9 | 41 | 318.9 | 41.11   | 16      | S 3/8            |

# Accessory

Torque Arms

Bit

Bit selector

External control grip



## Torque Arms

### Model description

| OPT                              | DLP                                                                                                                                | 010                                                                                        | 15                                                                                                                                                                                 | V1           | X         |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|
| PT:Power Tool<br>O:Optional Part | Position Type<br>P: Position<br>N:No Positon<br><br>Arms Type<br>L: Linear Arms<br>S:Swivel Arms<br>C: Carbon Arms<br>F:Frame Arms | Anti-torque<br>010:10Nm<br>025:25Nm<br>050:50NM<br>100:100NM<br>Add "AB"for<br>Carbon Arms | Length of Cable<br>5:5m<br>3:3m<br>0:None<br><br>Position encoder description<br>0:No positioning<br>1:Analog output 0-10V<br>2:RS485<br>X:Customize communication<br>requirements | V1:Version 1 | Customize |

## Linear Arms

Suitable for work benches or stations with sufficient space Maximum Anti-torque:  
Vertical-50N, Horizontal-35Nm  
Simple and light structure and easy to use

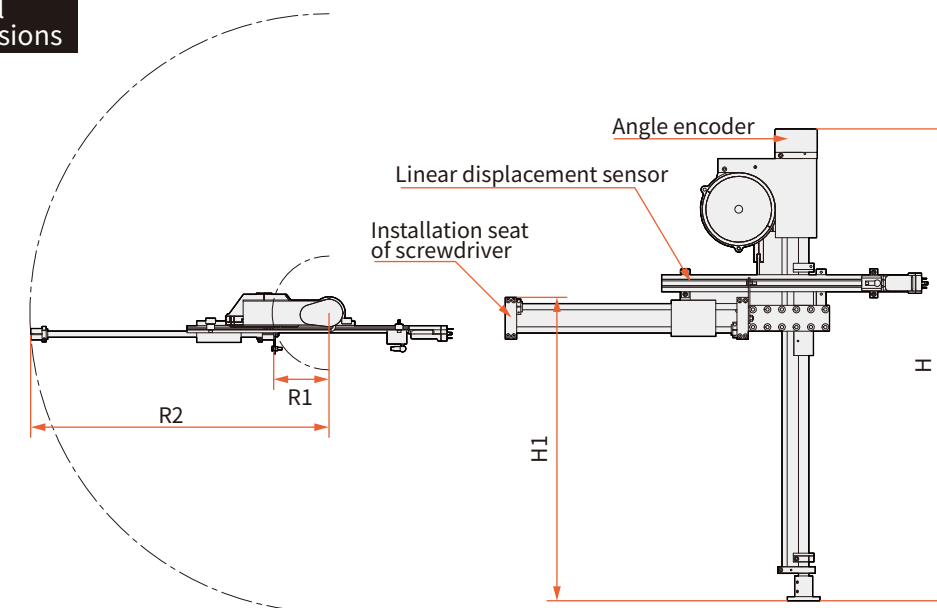
Configurable:  
1 digital angle sensor  
1 displacement sensor(conversion module as standard, Analog signal converted into RS485) to accurately locate the tightening position

\*Fixture and positioning controller are ordered separately.

### Parameters of Linear Arms

| Model                             | OPT-DLN-010-00-V1-0 | OPT-DLN-025-00-V1-0 | OPT-DLN-050-00-V1-0 | OPT-DLP-010-25-V1-0 | OPT-DLP-025-25-V1-0 | OPT-DLP-050-25-V1-0 |
|-----------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Position Type                     | No-position         | No-position         | No-position         | Position            | Position            | Position            |
| Encoder Type                      | -                   | -                   | -                   | RS485               | RS485               | RS485               |
| Encoder cable length-m            | -                   | -                   | -                   | 5                   | 5                   | 5                   |
| Distinguishable Screw distance-mm | -                   | -                   | -                   | ≥10                 | ≥10                 | ≥10                 |
| Max. vertical torque-Nm           | 10                  | 25                  | 50                  | 10                  | 25                  | 50                  |
| Max. horizontal torque-Nm         | 8                   | 20                  | 35                  | 8                   | 20                  | 35                  |
| Max. effective load-kg            | 1                   | 3                   | 4.8                 | 1                   | 3                   | 4.5                 |
| Vertical distance-mm              | 400                 | 400                 | 500                 | 400                 | 400                 | 500                 |
| Horizontal distance-mm            | 300                 | 300                 | 400                 | 300                 | 300                 | 400                 |
| Min. working radius R1-mm         | 200                 | 210                 | 290                 | 200                 | 210                 | 290                 |
| Max. working radius R2-mm         | 600                 | 700                 | 850                 | 600                 | 700                 | 850                 |
| Max. height of installation H1-mm | 625                 | 625                 | 735                 | 625                 | 625                 | 735                 |
| Total Height H-mm                 | 875                 | 875                 | 1025                | 915                 | 915                 | 1070                |

### Overall Dimensions



## Accessory



► Swivel Arms

Suitable for work stations with limited space  
Maximum Anti-torque:  
Vertical-50N, Horizontal-35Nm  
Simple and light structure and easy to use

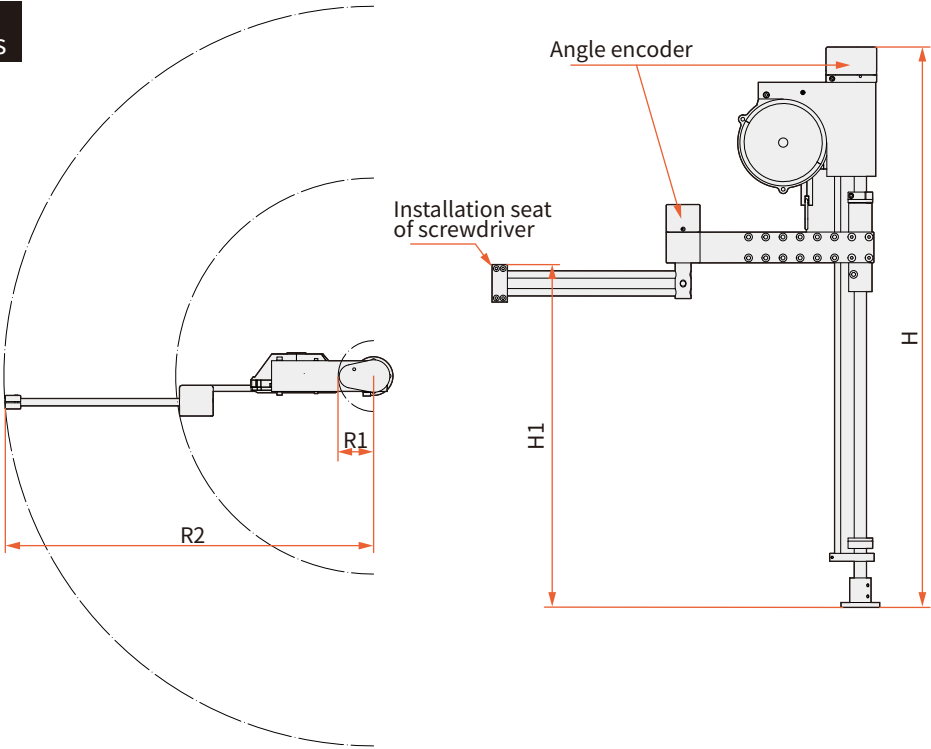
Configurable:  
2 digital angle sensor to accurately locate  
the tightening position

\*Fixture and positioning controller are ordered separately.

Parameters of Swivel Arms

| Model                             | OPT-DSN-010-00-V1-0 | OPT-DSN-025-00-V1-0 | OPT-DSN-050-00-V1-0 | OPT-DSP-010-25-V1-0 | OPT-DSP-025-25-V1-0 | OPT-DSP-050-25-V1-0 |
|-----------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Position Type                     | No-position         | No-position         | No-position         | Position            | Position            | Position            |
| Encoder Type                      | -                   | -                   | -                   | RS485               | RS485               | RS485               |
| Encoder cable length-m            | -                   | -                   | -                   | 5                   | 5                   | 5                   |
| Distinguishable Screw spacing- mm | -                   | -                   | -                   | ≥10                 | ≥10                 | ≥10                 |
| Max. vertical torque-Nm           | 10                  | 25                  | 50                  | 10                  | 25                  | 50                  |
| Max. horizontal torque-Nm         | 8                   | 20                  | 35                  | 8                   | 20                  | 35                  |
| Max. effective load-kg            | 1                   | 3                   | 5                   | 1                   | 3                   | 5                   |
| Vertical distance-mm              | 400                 | 400                 | 500                 | 400                 | 400                 | 500                 |
| Horizontal distance-mm            | -                   | -                   | -                   | -                   | -                   | -                   |
| Min. working radius R1-mm         | 100                 | 100                 | 100                 | 100                 | 100                 | 100                 |
| Max. working radius R2-mm         | 600                 | 700                 | 830                 | 600                 | 700                 | 830                 |
| Max. height of installation H1-mm | 560                 | 560                 | 670                 | 560                 | 560                 | 670                 |
| Total Height H-mm                 | 860                 | 860                 | 1010                | 915                 | 915                 | 1070                |

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

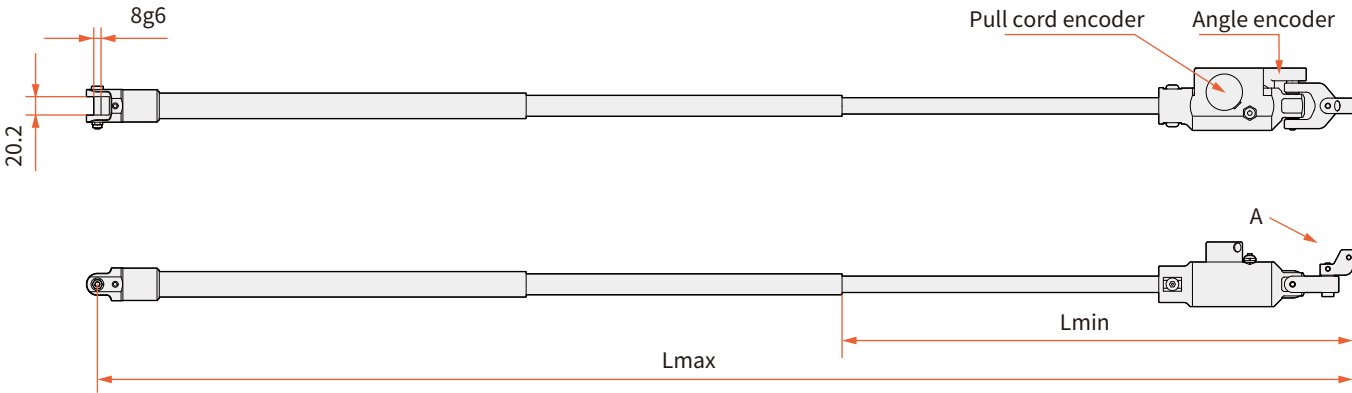
Configurable:  
1 angle encoder  
1 pull cord encoder

\*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



Bit

| Model            | Fixed screwdriver                                                                                                                                                                                                    | Handheld screwdriver-DC                                                                                                                                                                                                                                                                                            | Handheld screwdriver transducer                                                                                                                                                        |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A-A: Hex 1/4"    | PTC-ASF-0009N-0-H10-000<br>PTC-ASF-0009N-0-H10-015<br>PTC-ASF-0030N-0-H10-000<br>PTC-ASF-0030N-0-H10-030<br>PTC-ASF-0065N-0-H10-000<br>PTC-ASF-0065N-0-H10-030<br>PTC-ASF-0070N-0-H10-030<br>PTC-ASF-0120N-0-H10-030 | PTC-DSH-5000M 32-H1P-000-G2<br>PTC-DSH-0020N-32-H1P-000-G2<br>PTC-DSH-0040N-39-H1P-000-G2<br>PTC-DSH-0070N-39-H1P-000-G2<br>PTC-DSH-0110N-39-H1P-000-G2<br>PTC-DSH-5000M-32-H1D-000-G2<br>PTC-DSH-0020N-32-H1D-000-G2<br>PTC-DSH-0040N-39-H1D-000-G2<br>PTC-DSH-0070N-39-H1D-000-G2<br>PTC-DSH-0110N-39-H1D-000-G2 | PTT-DSH-7000M-36-H1D-000-G3<br>PTT-DSH-0012N-36-H1D-000-G3<br>PTT-DSH-0020N-39-H1D-000-G3<br>PTT-DSH-0040N-39-H1D-000-G3<br>PTT-DSH-0080N-39-H1D-000-G3<br>PTT-DSH-0120N-39-H1D-000-G3 |
| D-D: HM4         | PTC-ASF-4500M-0-HM0-000                                                                                                                                                                                              | PTC-DSH-1800M-32-HMP-000-G2<br>PTC-DSH-1800M-32-HMD-000-G2                                                                                                                                                                                                                                                         | PTT-DSH-7000M-36-HMD-000-G3                                                                                                                                                            |
| B-B: Square 3/8" | PTC-ASF-0180N-0-S20-030<br>PTC-ASF-0270N-0-S20-030                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                    | PTT-DSH-0200N-39-H1D-000-G3                                                                                                                                                            |
| C-C: Square 1/2" | PTC-ASF-0520N-0-S30-050<br>PTC-ASF-1050N-0-S30-050                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                        |

| 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<br>1/2" E 12.7 | Hex、HM     | 50-300 | HEX2,2.5,3,4,5,6,8,10             | Hex screw            |
| Philips Type H                                                                       |  |                           |            |        | 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 |