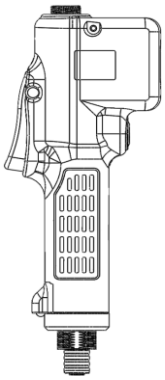
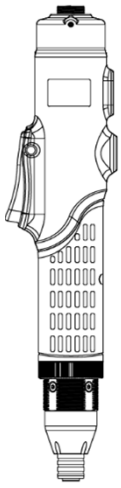
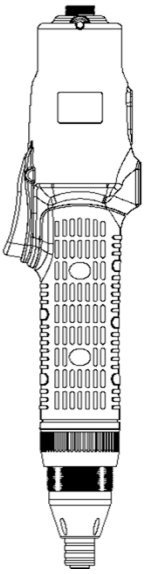
OPERATION AND MAINTENANCE MANUAL

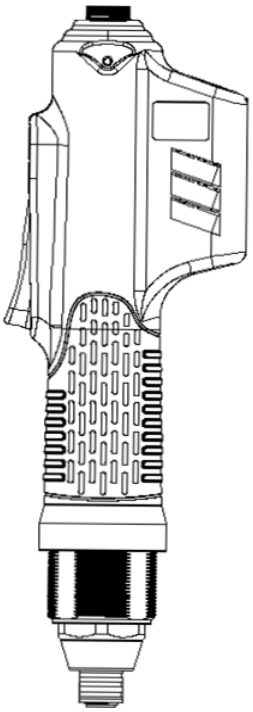


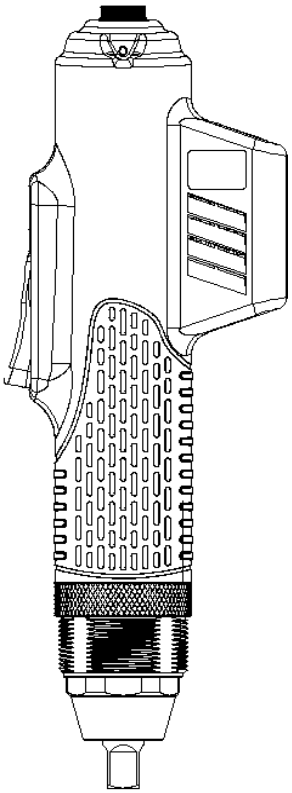












SNT-CSM103 **SNT-CS301** **SNT-CS503** **SNT-CSM712** **SNT-CSM940**
SNT-CSM106 **SNT-CS302F** **SNT-CS505** **SNT-CSM718** **SNT-CSM960**
SNT-CSM110 **SNT-CS303** **SNT-CS507** **SNT-CSM725**

Automatic Non-Carbon-Brush Series

KILEWS INDUSTRIAL CO., LTD.

https://www.kilews.com.tw

Y2F241A-1-006

NOTICE

Metal Assembly sensor screwdriver are designed for installing threaded fasteners in light industrial and appliance manufacturing applications.
KILEWS is not responsible for customer modification of tools for applications on which KILEWS was not consulted.

WARNING

Important safety information enclosed.
Read all these instructions before placing tool in service or operation this tool and save these instructions. It is the responsibility of the employer to place the information in this manual into the hands of the operator. Failure to observe the following warnings could result in injury. When using electric tools, Basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following:

Important Safety Rules

WARNING! Read all instructions Failure to follow all instructions listed below may result in electric shock fire and/or serious injury. The term “power tool” in all of the warning listed below refer to your mains operated (corded) power tool or battery operated (cordless) power tool.

SAVE THIS INSTRUCTIONS

1) Electrical Safety

a) **Keep work area clean and well lit.** Cluttered and dark areas invite accidents.

b) **Do not operate power tools in explosive atmosphere, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust of fumes.

c) **Keep children, and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical Safety

a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools**. Unmodified plugs and matching outlets will reduce risk of electric shock.

b) **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.

c) **Don’t expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

d) **Do not abuse the cord. Never use the cord to carry, pull or unplug the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.

e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of cord suitable for outdoor use reduces the risk of electric shock.

3) Personal Safety

a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use power tool while you are tired or under the influence of drugs, alcohol, or medication.**
A moment of inattention while operating power tools may result in serious personal injury.

b) **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
Rubber gloves and non-skid footwear are recommended when working outdoors.

c) **Avoid accidentally starting the sensor screwdriver.** Pay attention to that the voltage used is suitable for this model.
Before plugging in the power plug of the sensor screwdriver, first make sure that the switch is off .

d) **Remove any adjusting keys or wrench before turning the power tool on.**
A wrench or a key that is left attached to a rotating part of the power tool may result in personal injury.

e) **Do not overreach. Keep proper footing and balance at all times.**
This enables better control of the power tool in unexpected situations.

f) **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.

g) **Secure work.** Use clamps or a vice to hold the work. It is safer than using your hand and frees both hands to operate the tool.

h) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust related hazards.

i) **Use a safety device.** Wear protective earmuffs to reduce personal injury.

Noise:
The typical A-weighted noise level acc. To EN62841-2-2
. Sound pressure level (LpA): 53.6 dB(A)
. Sound power level (LwA): 64.6 dB(A)

Vibration:
The vibration total value acc. EN62841-2-2
. Vibration emission value ah (m/s^2): 0.17 m/s^2
. Uncertainty K (m/s^2): 0.02 m/s^2

4) Power tool Use and Care

a) **Do not force the power tool. Use the correct power tool for your application.**
The correct power tool will do the job better and safer at the rate for which it was designed.

b) **Do not use power tool if switch does not turn it on or off.**
Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) **Store idle power tools out of reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.**

Power tools are dangerous in the hands of untrained users.

Do not let visitors touch the tool or extension cord. All visitors should be kept away from work area.

e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.**

Many accidents are cause by poorly maintained power tools.

Inspect extension cords periodically and replace, if damaged.

f) **Keep cutting tools sharp and clean**,

Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) **Use the power tools, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.**

Use of the power tool for operations different from intended could result in a hazardous situation.

5) SERVICE

a) Have your power tool serviced by qualified repair person using only identical replacement parts, this will ensure that the safety of the power tool is maintained.

Additional information shall be provided.

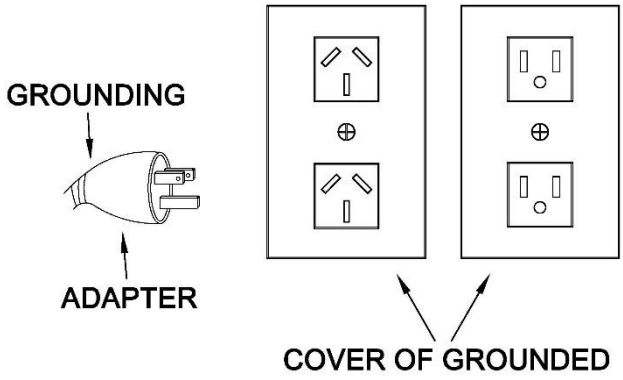
a) Instruction for putting into use.
   1. Setting-up or fixing power tool in a stable position as appropriate for power tools which can be mounted on a support.
   2. Assembly
   3. Connection to power supply, cable, fuse, socket type and earthing requirements.
   4. Illustrated description of functions.
   5. Limitations on ambient conditions.
   6. List of contents.

b) Operating Instructions.
   1. Setting and testing.
   2. Tool changing.
   3. Clamping of work.
   4. Limits on size of work piece.
   5. General instructions for use.

c) Maintenance and servicing.
   1. Regular cleaning, maintenance, and lubrication.
   2. Servicing by manufacturer or agent, list of addresses.
   3. List of user-replaceable parts.
   4. Special tools which may be required.

Grounding Instructions

1、This tool should be grounded while in use to protect the operator from electric shock. NOTICE! To ensure the grounding result, the grounding conductor of the power cord must be well connected with the grounding terminal of power facility. This tool is equipped with grounding conductors. The Green (or Green and Yellow) conductor in the Power Cord is the grounding wire. Never connect Green (or Green and Yellow) to a live terminal. The grounding wires in this tool can not only earth the electric leakage safely, but also can eliminate ESD-the electrostatic that tool occurred while in use.



WARNING !

DO NOT OPERATE THIS TOOL WITHOUT PROTECTIVE EARTH CONNECTED

Operations Cautions

1) Do not allow chemicals such as acetone, benzene, thinner, trichloroethylene ketone, or other similar chemicals to come in contact with the sensor screwdriver housing as damage will result.
2) Use the sensor screwdriver carefully, do not drop or be impacted, it is best to use a balancer to lift it, and set it on the auxiliary arm for operation.
3) Loading and unloading the sensor driver head: Simply pull down the screwdriver head cap with your fingertips to freely attach or detach the sensor screwdriver head, release the finger to return the screwdriver head cap to fix the sensor screwdriver head.
   Note: Make sure to turn off the power switch and remove the power plug from the socket when installing and removing the sensor driver.
4) Do not drop or abuse the sensor screwdriver.
5) Connect the power cord to a power outlet.
   CAUTION: Danger of electric shock due to wet power cord plug or hands.
6) Do not use this screwdriver for tightening wood screws. This is “Metal Assembly sensor screwdriver.”
7) The control settings of the sensor screwdriver can be set by the KL-NTCS controller. Please refer to the KL-NTCS operation manual for setting adjustment.
8) The sensor screwdriver operation can be set to the press-plate start/down-press start/pull-screw start…etc. by KL-NTCS controller. Please refer to KL-NTCS operation manual.
9) Operation frequency: Over frequently using makes the motor overheated and damage to screwdriver. Enough heat-dissipation is good for screwdriver. Please refer to the Working Time from the Technical Specification sheet.
10) Whenever the sensor screwdriver is not used, turn off the power for the controller or unplug the power cord.
11) Don't touch switch during operating for keeping system from wrong judgement.
12) Please use the designated connection cable for KL-NTCS.

<table>
<tr><td colspan="5">The wiring PIN correspondence table for each model and controller.</td></tr>
<tr><td>Screwdriver side</td><td>PIN header</td><td rowspan="6">Connection cable</td><td>PIN header</td><td rowspan="6">Controller side</td></tr>
<tr><td>SNT-CSM110 Series</td><td rowspan="3">Small</td><td rowspan="5">Large</td></tr>
<tr><td>SNT-CS303 Series</td></tr>
<tr><td>SNT-CS505 Series</td></tr>
<tr><td>SNT-CSM712 Series</td><td rowspan="2">Large</td></tr>
<tr><td>SNT-CSM960 Series</td></tr>
</table>

13) Please collaborate it with Auxiliary Arm.

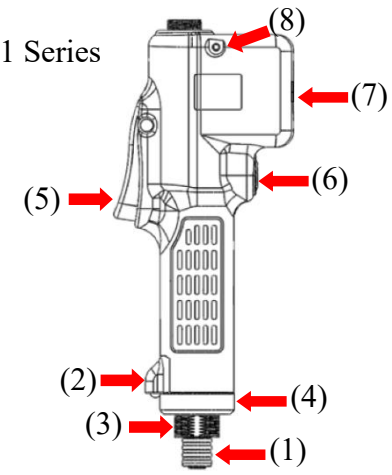
Cautions

SNT-CS/CSM Cable Series – Applicable Models	
Cable Specifications	High-Flex Cable for Electric Tools
Cable Parameters	Minimum bending radius ≥ 120 mm; operating temperature range: -15°C to 105°C; compliant with RoHS 2.0 environmental standards.
Operating Temperature	Conductor operating temperature range: -15°C to 105°C; recommended ambient temperature range: 0°C to 40°C.
Installation Requirements	Cable routing: The cable must be installed without twisting or knotting along its entire length; direct pulling is not permitted.
	Motion allowance: Reserve 10%–15% slack length; do not tension or overstretch the cable.
Cable Carrier Fixing Guidelines	Fixing position: Fix both ends of the cable outside the cable carrier; fixing inside the carrier is prohibited.
	Fixing distance: The moving-end fixing point shall be 200–300 mm from the cable carrier end.
	Fixing method: Use soft clamps; metal wire and rigid cable ties that may compress the sheath are prohibited.
	Transition handling: Provide smooth curved transitions at cable carrier entry/exit points; right-angle bending is prohibited.
Wiring Requirements	Connector handling: Align with keying structure for smooth insertion; angled insertion, excessive force, forceful plugging/unplugging, and hot plugging are prohibited.
Prohibitions	Do not twist the cable during routing; this may cause conductor breakage and signal interference.
	Do not bend the cable below a 120 mm radius; sharp bending is strictly prohibited.
	Do not clamp or fix the cable inside the cable carrier; this may cause stress concentration.
	Do not subject the cable to long-term tensile force; this may cause damage to the sheath and conductors.
	Do not expose the cable sheath to prolonged immersion in or abrasion by oil contaminants or metal chips.

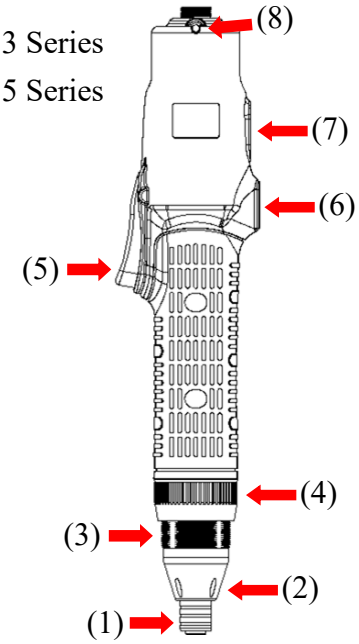
Maximum Axial Load	
SNT-CS/CSM Series	Axial Load
CS3 Series	Maximum Axial Load: Approx. 108 N
CS5 Series	Maximum Axial Load: Approx. 108 N
CSM7 Series	Maximum Axial Load: Approx. 130 N
CSM9 Series	Maximum Axial Load: Approx. 272 N

Function / Operating Introduction

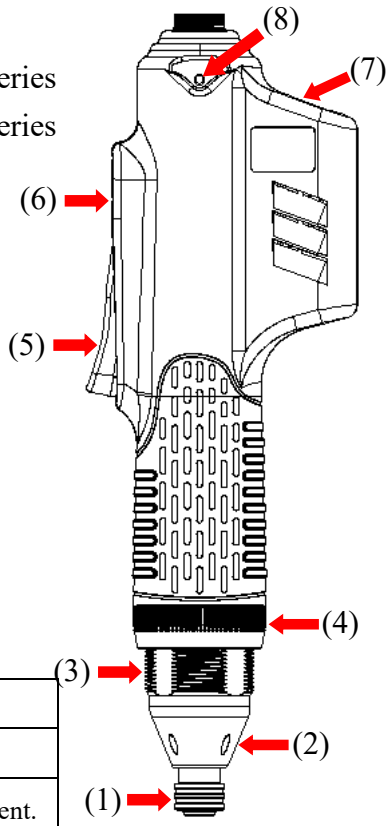
1 Series



3 Series
5 Series



7 Series
9 Series



Number	Product Name	Description Use		
(1)	Bit Sleeve	The bit can be freely attached and detached		
(2)	LED Lighting auxiliary lighting	Please refer to the KL-NTCS operation manual for setting adjustment.		
(3)	Front Cover Thread	Help to fix on the auxiliary arm		
(4)	Front Lock Ring	Lock stationary gearbox and housing		
(5)	Press-plate Start	Press to start the screwdriver		
(6)	Button Switch	Switch rotation direction CW/CCW		
(7)	Button Switch Lights	Forward 、OK	NG	Backward
		Green Light	Red Light	Blue Light
(8)	Hook Hole	Used for installing a hook to hang the screwdriver. ◦		

Start Mode: Set the start mode on the controller

MODEL: (SNT-CS) (SNT-CSM) / Function	**103 106 110**	**301**	**725**	**940 960**	**302F**	**303**	**503**	**505**	**507**	**712**	**718**
1.When pushing down on the screwdriver, there will be no action, but the screwdriver can be operated by pressing the lever trigger.	Function: No pushing down.				V	V	V	V	V	V	V
2.When pressing the lever trigger, there will be no action, but pushing down on the screwdriver can operate it.					V	V	V	V	V	V	V
3.Pressing the lever trigger and pushing down on the screwdriver simultaneously operate the screwdriver.					V	V	V	V	V	V	V
4.Pressing the lever trigger or pushing down on the screwdriver operates the screwdriver.					V	V	V	V	V	V	V
5.The screwdriver can be operated by pressing the lever trigger, pushing down on the screwdriver, or remotely from a far side.					V	V	V	V	V	V	V

Servicing

Maintenance and Inspection:

1. The recommended daily operating time for this transducerized screwdriver is no more than 8 hours to remain a better performance.
   Depending on usage frequency and tool load, it is recommended to apply lubricant to the clutch every 3 to 6 months. Calibration should be performed every one million cycles or at least once a year. For maintenance and calibration, please contact your local distributor.
2. Please note don't let the motor get over heated, please refer to the Working Time from the Technical Specification sheet.
3. The frequency use of this electric sensor screwdriver is over than eight hours a day, still it needs periodically testing and treatment.
4. Inspect tool cords periodically and if damaged, have them repaired by an authorized service facility. Inspect extension cords periodically and replace if damaged.
5. Do not remove any labels. Replace any damaged label.
6. To adjust the torque on this sensor screwdriver. Proceed as follows:
   Stop the sensor driver first and adjust it with the KL-NTCS controller.

CAUTION

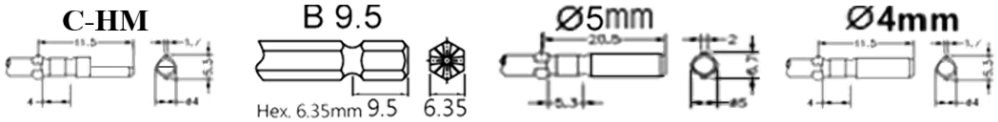
1. The use of other than genuine KILEWS replacement parts may Result in decreased tool performance and increased maintenance and may invalidate all warranties.
2. All repairs and maintenance of this tool and its word must be performed by an authorized service center.
3. KILEWS is not responsible for customer modification of tools for applications on which KILEWS was not consulted.
4. Repairs should be made only by authorized, trained personnel. Consult your nearest KILEWS authorized service center.
5. It is the responsibility of the employer to place the information in this manual into the hands of the operator.

DO NOT ATTEMPT TO REPAIR THIS ELECTRIC SCREWDRIVER

CAUTION

SAVE THESE INSTRUCTIONS DO NOT DESTROY

Specifications

MODEL		SNT-CSM103	SNT-CSM106	SNT-CSM110
Input voltage (DC)		DC40V		
Power Consumption		40W		
Torque +/-3sigma /AVG. 5%	(kgf.cm)	0.375-3	0.75-6	1.25~10
Repeatable Torque Accuracy		+/- 3sigma / AVG., 5%		
Unloaded Rotation Speed ±3% (r/min)Can be set and adjusted		20-1600	20-1200	20-800
Working Time		1s ON / 3s OFF		
Weight (g)		465		
Length (mm)		210		
Power controller		KL-NTCS-M7		
Auxiliary Arm		-		
Model of Suspension Rack		KH-1L		
Bit Type				
		B9.5、D、C、C-HM		

* 1N.m=10.2Kgf.cm 1N.m=8.85Lbf.in

Accessories

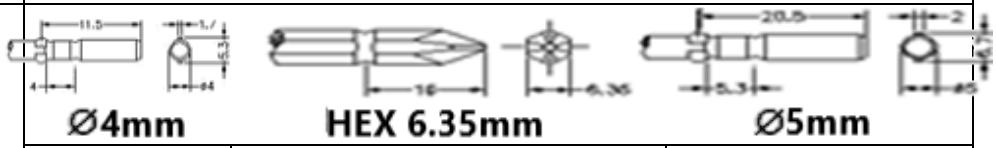
1. BIT Type：

No. 00 ・・・ Bit use in dia 1.3~1.8mm screw
No. 0 ・・・ ・Bit use in dia 1.8~2.0mm screw
No. 1 ・・・ ・Bit use in dia 2.0~2.6mm screw
No. 2 ・・ ・・Bit use in dia 3.0~4.0mm screw.

SNT-CSM103	with BIT	1#&0#&00#	1 Pcs. Each
SNT-CSM106	with BIT	1#&0#&00#	1 Pcs. Each
SNT-CSM110	with BIT	1#&2#	1 Pcs. Each

	Name		Quantity	Unit
Quantity	Screwdriver Hook		1	Pcs
	Connecting Cable		1	Piece
	Bit	SNT-CSM103	3	Pcs
		SNT-CSM106	3	Pcs
		SNT-CSM110	2	Pcs
	User Manual		1	set
	Warranty Card		1	piece
	Inspection Report		1	set

Specifications

MODEL		SNT-CS301	SNT-CS302F	SNT-CS303
Input voltage (DC)		DC40V		
Power Consumption		90W		
Torque +/-3sigma /AVG. 5%	(N.m)	0.1-1	0.3-2.4	0.38-3
	(kgf.cm)	1.02-10.2	3.06-24.48	3.88-30.60
	(Lbf.in)	0.89-8.85	2.66-21.24	3.36-26.55
Repeatable Torque Accuracy		+/- 3sigma / AVG., 5%		
Unloaded Rotation Speed ±3% (r/min)Can be set and adjusted		20-980	20-2000	20-980
Working Time		1s ON / 3s OFF	1s ON / 3s OFF	1s ON / 3s OFF
Weight (g)		644	705	
Length (mm)		285	293	
Power controller		KL-NTCS、 KL-NTCS-M7		
Auxiliary Arm		KP-AUX-TI-300N、KP-AUX-TI-600N KP-AUX-TL-450N、KP-AUX-TL-700N		
Model of Suspension Rack		KH-2、KH-2L		
Bit Type				
		B9.5、C、D	B9.5、D、B	B9.5、D、B

* 1N.m=10.2Kgf.cm 1N.m=8.85Lbf.in

Accessories

1. BIT Type：

No. 00 ・・・ Bit use in dia 1.3~1.8mm screw
No. 0・・・ ・Bit use in dia 1.8~2.0mm screw
No. 1・・・ ・Bit use in dia 2.0~2.6mm screw
No. 2・・ ・・Bit use in dia 3.0~4.0mm screw.

SNT-CS301	with BIT	1#&2#	1 Pcs. Each
SNT-CS302F	with BIT	2#	2 Pcs
SNT-CS303	with BIT	2#	2 Pcs

	Name	Quantity	Unit
Quantity	Screwdriver Hook	1	Pcs
	Connecting Cable	1	Piece
	Bit (B9.5)	2	Pcs
	User Manual	1	set
	Warranty Card	1	piece
	Inspection Report	1	set

Specifications

MODEL		SNT-CS503	SNT-CS505	SNT-CS507
Input voltage (DC)		DC40V		
Power Consumption		90W		
Torque +/-3sigma /AVG. 5%	(N.m)	0.38-3	0.63-5	0.88-7
	(kgf.cm)	3.88-30.60	6.43-51.00	8.98-71.40
	(Lbf.in)	3.36-26.55	5.58-44.26	7.79-61.96
Repeatable Torque Accuracy		+/- 3sigma / AVG., 5%		
Unloaded Rotation Speed ±3% (r/min)Can be set and adjusted		20-1600	20-1100	20-660
Working Time		1s ON / 3s OFF	1s ON / 3s OFF	1s ON / 3s OFF
Weight (g)		949		
Length (mm)		307		
Power controller		KL-NTCS、 KL-NTCS-M7		
Auxiliary Arm		KP-AUX-TI-300N、KP-AUX-TI-600N KP-AUX-TL-450N、KP-AUX-TL-700N		
Model of Suspension Rack		KH-6、KH-2L		
Bit Type				
		A、B9.5、D	A、B9.5	B9.5

* 1N.m=10.2Kgf.cm 1N.m=8.85Lbf.in

Accessories

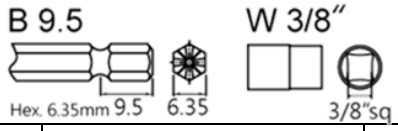
1. BIT Type：

No. 00 ・・・ Bit use in dia 1.3~1.8mm screw
No. 0・・・ ・Bit use in dia 1.8~2.0mm screw
No. 1・・・ ・Bit use in dia 2.0~2.6mm screw
No. 2・・ ・・Bit use in dia 3.0~4.0mm screw.

SNT-CS503 with BIT 2# 2 Pcs
SNT-CS505 with BIT 2# 2 Pcs
SNT-CS507 with BIT 2# & 3# 1 Pcs. Each

	Name	Quantity	Unit
Quantity	Screwdriver Hook	1	Pcs
	Connecting Cable	1	Piece
	Bit	2	Pcs
	User Manual	1	set
	Warranty Card	1	piece
	Inspection Report	1	set

Specifications

MODEL		SNT-CSM712	SNT-CSM718	SNT-CSM725	
Input voltage (DC)		DC40V			
Power Consumption		90W			
Torque +/-3sigma /AVG. 5%	(N.m)	1.5-12	2.25 -18	3.13-25	
	(kgf.cm)	15.30-122.40	22.95-183.6	31.93-255	
	(Lbf.in)	13.28-106.21	19.91-159.3	27.70-221.28	
Repeatable Torque Accuracy		+/- 3sigma / AVG., 5%			
Unloaded Rotation Speed ±3% (r/min)Can be set and adjusted		20-800	20-550	20-350	
Working Time		1s ON / 3s OFF	1s ON / 3s OFF	1s ON / 3s OFF	
Weight (g)		1340	1340	1790	
Length (mm)		289	289	300	
Power controller		KL-NTCS、 KL-NTCS-M7			
Auxiliary Arm		KP-AUX-TI-300N、KP-AUX-TI-600N KP-AUX-TL-450N、KP-AUX-TL-700N		Auxiliary Arm	Fixture
				KP-AUXA	KP20005-9
Model of Suspension Rack		KH-7、KH-2L			
Bit Type					
		B9.5 W3/8	B9.5 W3/8	B9.5 W3/8	

* 1N.m=10.2Kgf.cm 1N.m=8.85Lbf.in

Accessories

1. BIT Type：

SNT-CSM712 with BIT 3# 2 Pcs

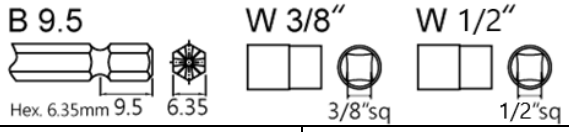
SNT-CSM718 with BIT 3# 2 Pcs

SNT-CSM725 with BIT 3# 2 Pcs

SNT-CS W Type Not attached Socket.

	Name	Quantity	Unit
Quantity	Screwdriver Hook	1	Pcs
	Connecting Cable	1	Piece
	Bit	2	Pcs
	User Manual	1	set
	Warranty Card	1	piece
	Inspection Report	1	set

Specifications

MODEL		SNT-CSM940	SNT-CSM960
Input voltage (DC)		DC40V	
Power Consumption		160W	
Torque +/-3sigma /AVG. 5%	(N.m)	5-40	7.5-60
	(kgf.cm)	51.00-408	76.5-612
	(Lbf.in)	44.26-354.04	66.38-531
Repeatable Torque Accuracy		+/- 3sigma / AVG., 5%	
Unloaded Rotation Speed ±3% (r/min)Can be set and adjusted		20-390	20-250
Working Time		1s ON / 3s OFF	1s ON / 3s OFF
Weight (g)		2605	2605
Length (mm)		329	329
Power controller		KL-NTCS、 KL-NTCS-M7	
Auxiliary Arm		KP-AUX-TL-900AE KP-AUXA-500-1 with a KP20017-4	
Bit Type			
		B9.5、W3/8、W1/2	W1/2

* 1N.m=10.2Kgf.cm 1N.m=8.85Lbf.in

Accessories

1. BIT Type：

SNT-CSM940 with BIT 3# 2 Pcs

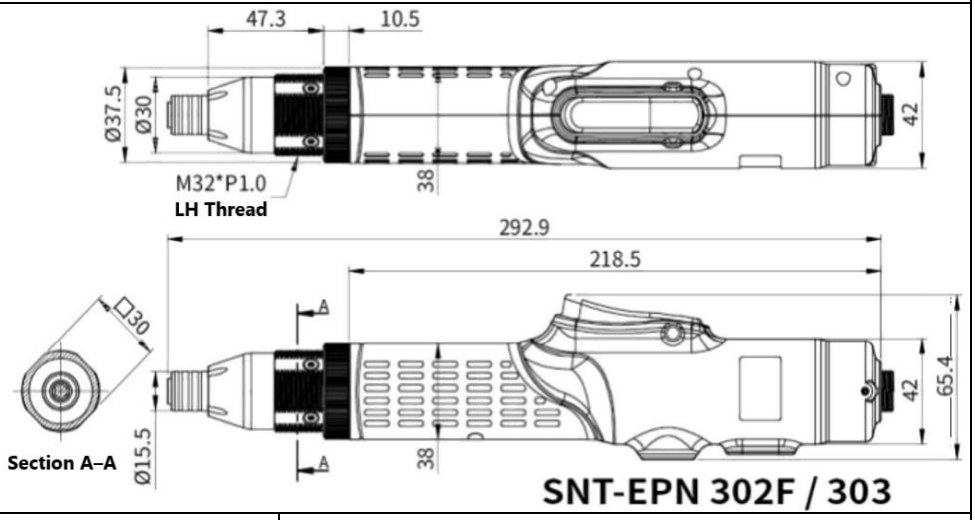
SNT-CSM960W

SNT-CS W Type Not attached Socket.

	Name		Quantity
Quantity	Screwdriver Hook		1
	Connecting Cable		1
	Bit	B9.5	2
	User Manual		1
	Warranty Card		1

3 Series Fixture Reference Dimension Drawing

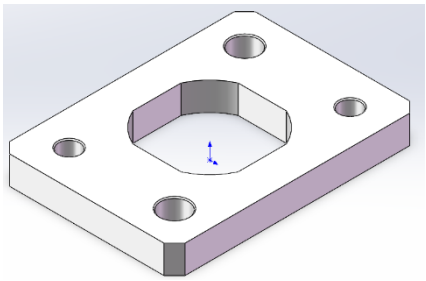
1.1 CS3 Seies Head Dimensions



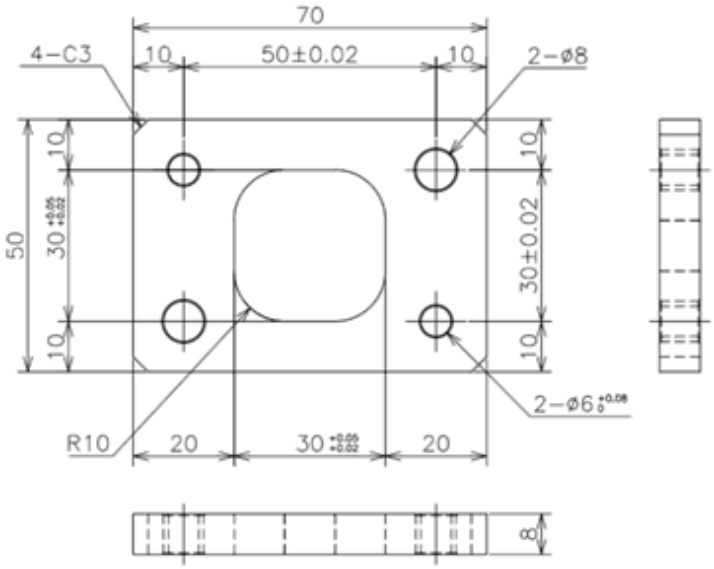
1.2 Fixture Components



Custom M32 × P1 Upper/Lower Limit Lock Nut, 4.5 mm Thickness

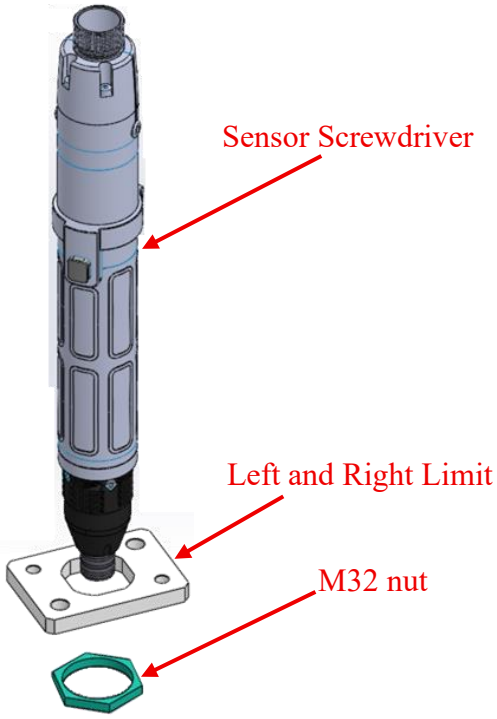


Left/Right Limit Positioning Flange (Ensures Vertical Alignment)



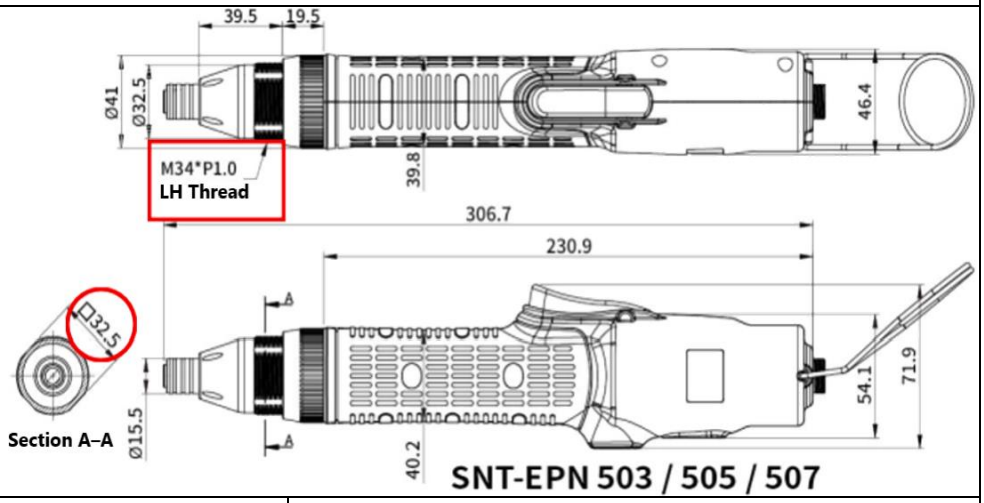
Left/Right Limit Positioning Fixing Flange (Machining Drawing)

1.3 Installation Schematic



5 Series Fixture Reference Dimension Drawing

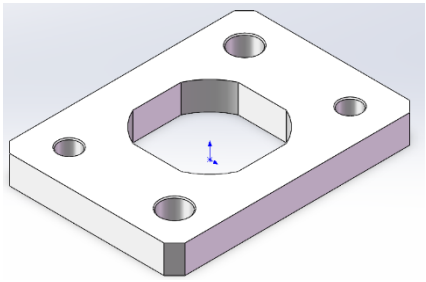
2.1 CS5 Series Head Dimensions



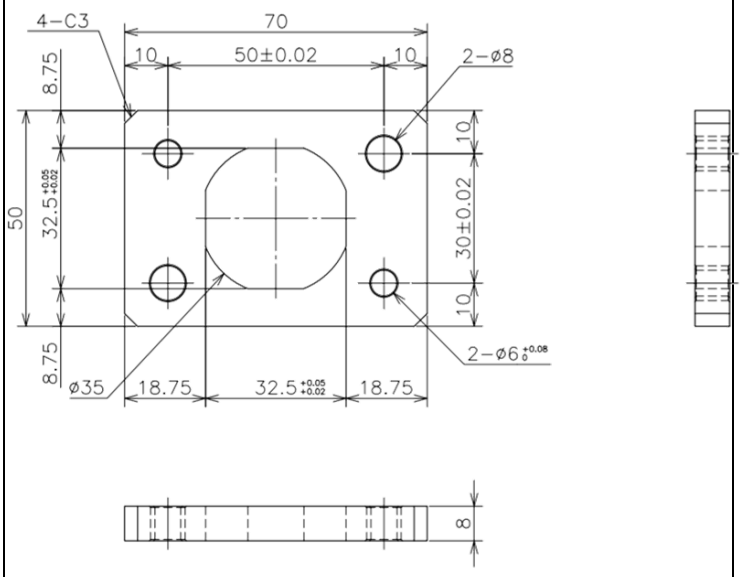
2.2 Fixture Components



Custom M34 × P1 Upper/Lower Limit Lock Nut, 6 mm Thickness

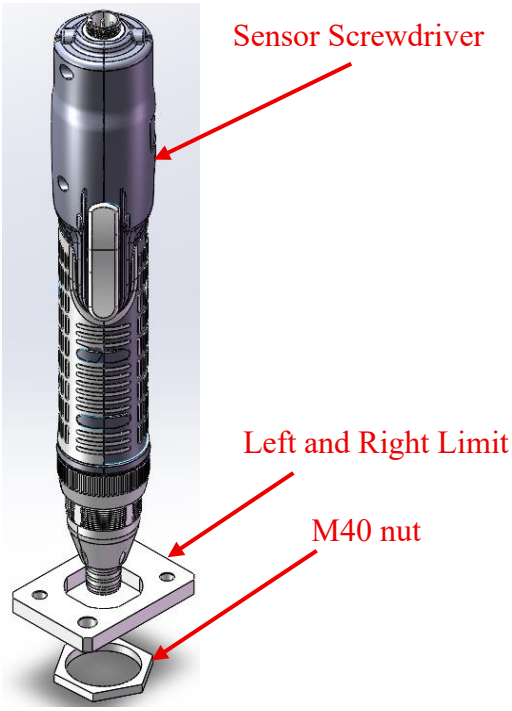


Left/Right Limit Positioning Flange (Ensures Vertical Alignment)



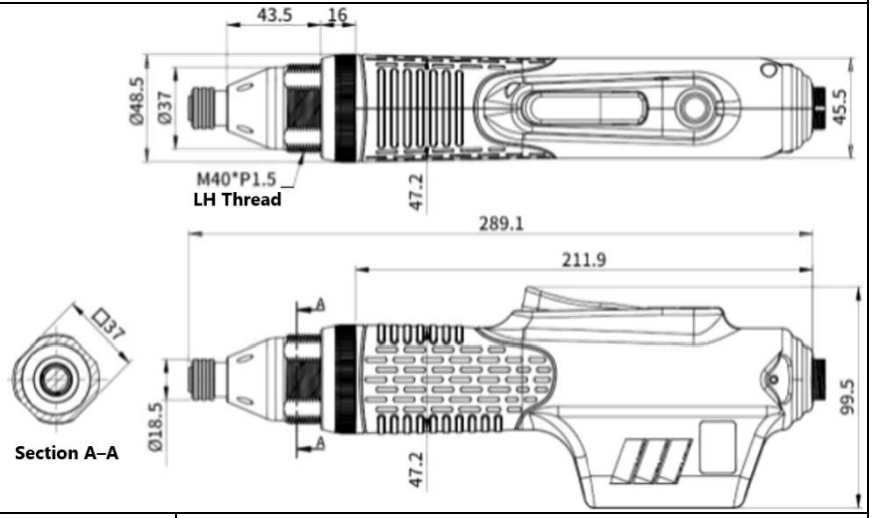
Left/Right Limit Positioning Fixing Flange (Machining Drawing)

2.3 Installation Schematic



712/718 Fixture Reference Dimension Drawing

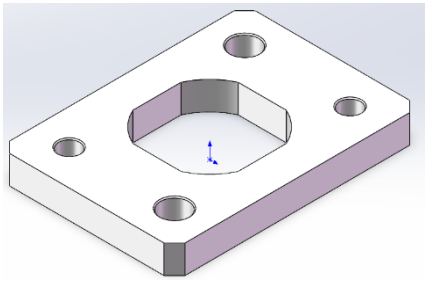
3.1 CSM712/718 Series Head Dimensions



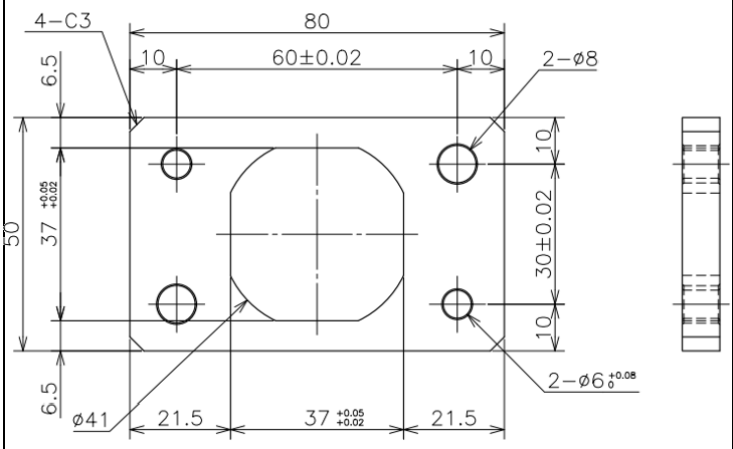
3.2 Fixture Components



Commercial M40 × P1.5 Upper/Lower Limit Lock Nut, 5.5 mm Thickness

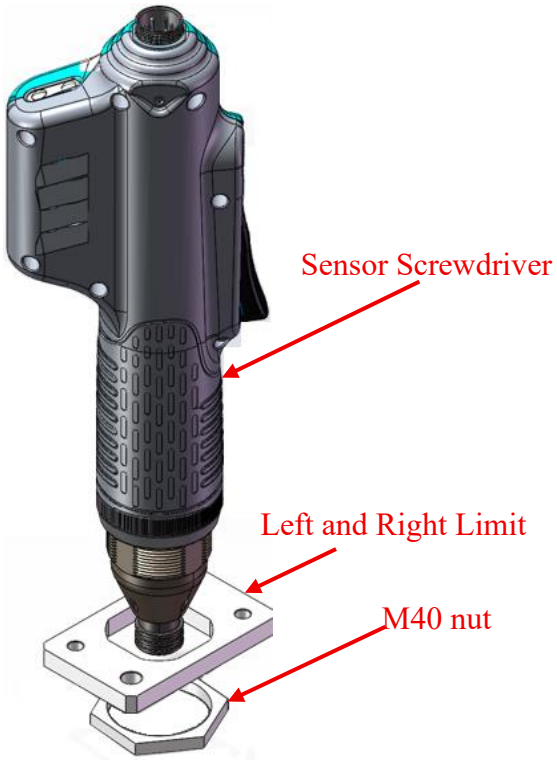


Left/Right Limit Positioning Flange (Ensures Vertical Alignment)



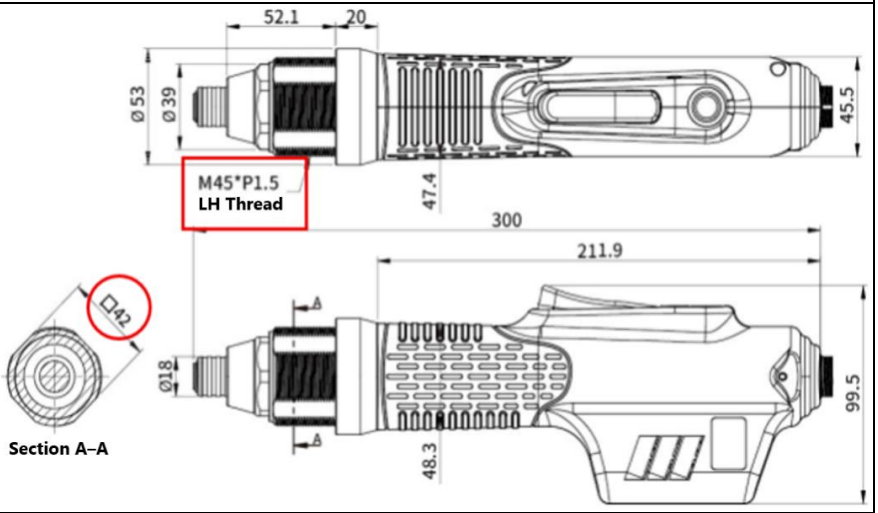
Left/Right Limit Positioning Fixing Flange (Machining Drawing)

3.3 Installation Schematic



725 Fixture Reference Dimension Drawing

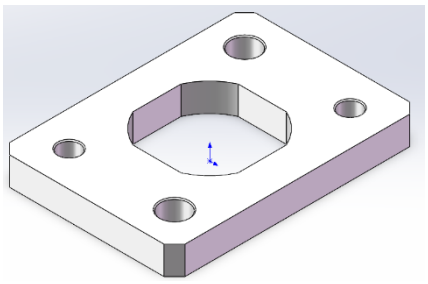
4.1 CSM725 Series Head Dimensions



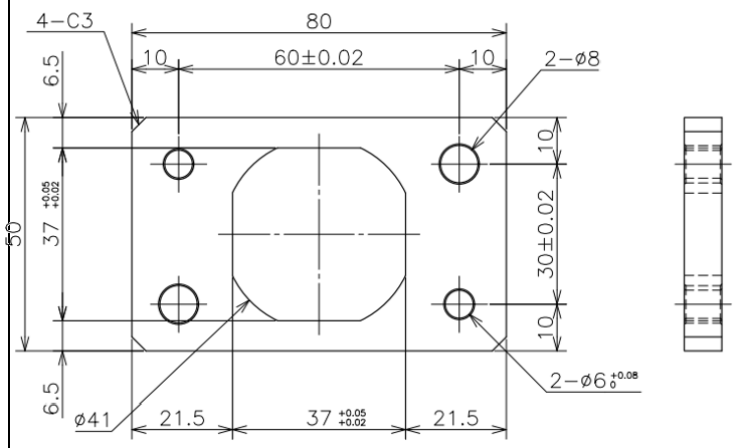
4.2 Fixture Components



Custom M45 × P1.5 Upper/Lower Limit Lock Nut, 6 mm Thickness

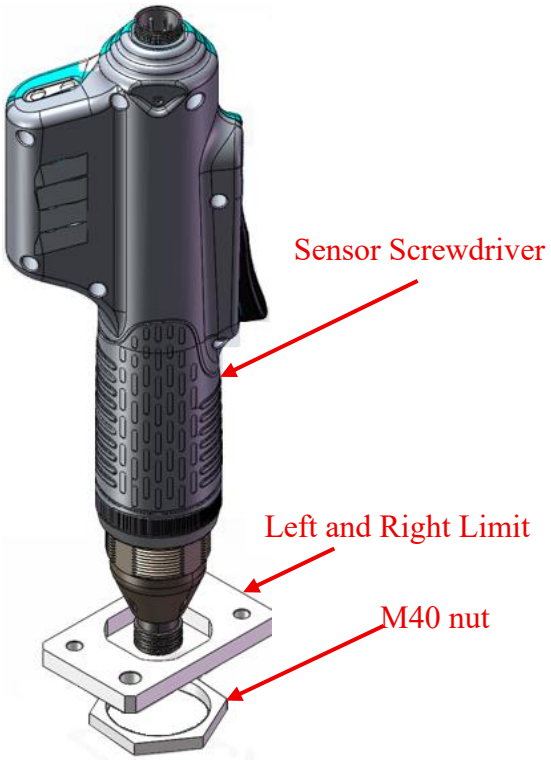


Left/Right Limit Positioning Flange (Ensures Vertical Alignment)



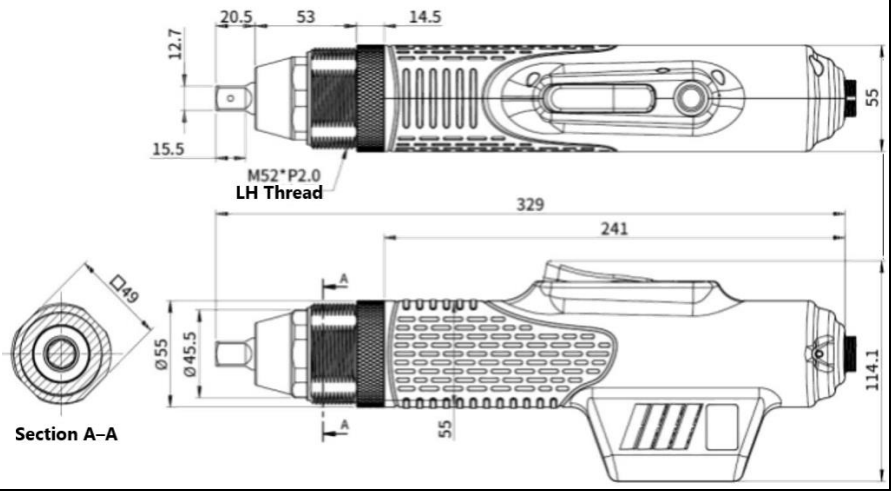
Left/Right Limit Positioning Fixing Flange (Machining Drawing)

4.3 Installation Schematic

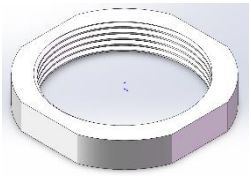


9 Series Fixture Reference Dimension Drawing

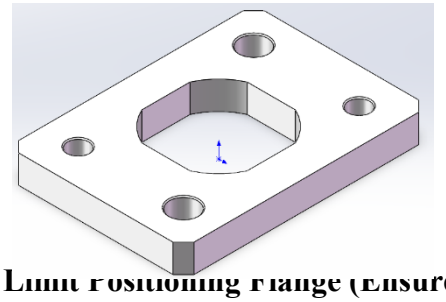
5.1 CSM9 Series Head Dimensions



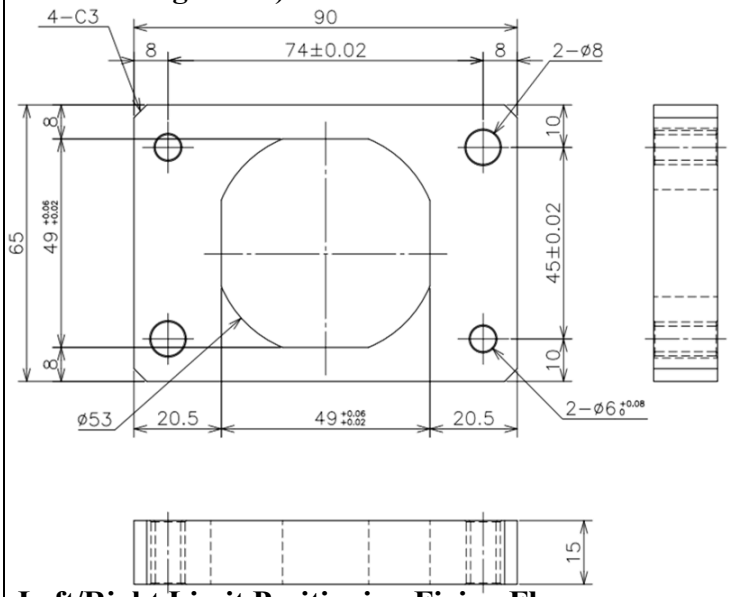
5.2 Fixture Components



Custom M52 × P2 Upper/Lower Limit Lock Nut, 10 mm Thickness

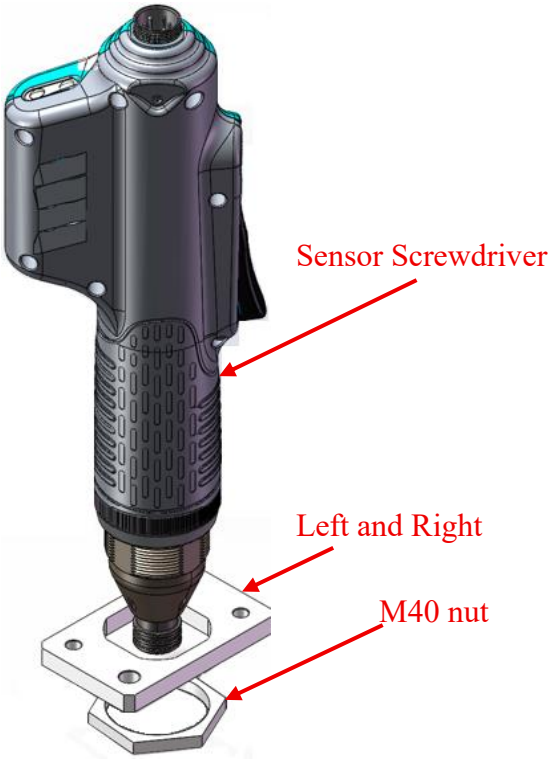


Left/Right Limit Positioning Flange (Ensures Vertical Alignment)



Left/Right Limit Positioning Fixing Flange (Machining Drawing)

5.3 Installation Schematic



Our company reserves the right to modify the product without prior notice.