Product Specifications

Tool Specifications

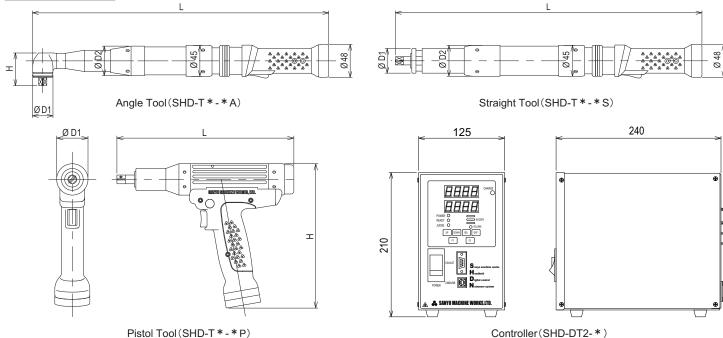
		Rated	Tarries Dance	Free	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Size	(mm)		Output	Fastening		
Туре	Model	Torque Range (N.m)		Speed (rpm)	Weight (kg)	D1	D2	Н	L (*1)	Axis Size (mm)	Accuracy (%)		
Pistol	SHD-T1-012P	12.0	3.6 - 16.0	1125	0.89	40		194	226	(*2)			
FISIOI	SHD-T1-020P	20.0	$6.0 - 32.0 (impact\ mode)$	635	0.93	40		194	230	Square 9.52			
Hlgh	SHD-T2-010P	10.0	3.0 - 14.0	3750	1.10		n.a.		242.5	(*2)			
-Speed	SHD-T2-012P	12.0	3.6 - 16.0	3000	1.10	43		198	242.0	(42)	Accuracy (%) 9.52 9.52 12.7 5.88 9.52		
Pistol	SHD-T2-020P	20.0	$6.0 - 32.0 (impact\ mode)$	1730	1.30				269	Square 9.52			
	SHD-T1-020A	20.0	6.0 - 20.0	675	1.35	30	43	43 48 434 45 52 477 Square		Causes 0 52			
Anglo	SHD-T2-050A	50.0	15.0 - 50.0	740	1.85	36	45			Square 9.52			
Angle	SHD-T2-100A	100.0	30.0 - 100.0	525	2.55	46	54	63	498	Square 12.7			
	SHD-T2-150A	150.0	45.0 - 150.0	335	3.25	54	56	75	505	Square 15.88			
	SHD-T1-005S	5.0	1.5 - 5.0	1125	1.20	31	43		390				
	SHD-T1-010S	10.0	3.0 - 10.0	1123	1.20	31	43		390	Square 9.52			
Straight	SHD-T2-030S	30.0	9.0 - 30.0	1230	1.72	36	45	n.a.	446				
	SHD-T2-050S	50.0	15.0 - 50.0	900	2.36	44	54		456	Square 12.7			
	SHD-T2-085S	-T2-085S 85.0 25.5 - 85.0		555	2.60	47	56		469	Square 12.1			

^(*1) Length dependent on output axis, square drive or hex female bit. (The size of a table is the square type size.) (*2) Square 9.52 or Hex female 6.35.

Controller Specifications

Model	Model Input Power(V)		Peak Power Consumption(W)	Operating Temperature(°C)				
SHD-DT2-1	AC 90 - 127	160	2500	0 - 50				
SHD-DT2-2	AC 180 - 253	160	3500	(Do not condense dew)				

Dimensions



^{*} The above-mentioned specification may be changed without prior notice.



SANYO MACHINE WORKS, LTD.

No.1 Oka, Okimura, Kitanagoya, Aichi, Japan
TEL:0568-21-1111 Fax:0568-23-4711
E-MAIL:sales@sanyo-machine.co.jp
Internet home page URL http://www.sanyo-machine.co.jp

SANYO MACHINE AMERICA CORPORATION 950 S.Rochester Rd., Rochester Hills, Michigan 48307 TEL:248-651-5911 Fax:248-651-5915 E-MAIL:sales@sanyo-machine.com

SANYO CANADIAN MACHINE WORKS, INC 33 Industrial Drive, Elmira, Ontario, Canada N3B 3B1 TEL:519-669-1591 Fax:519-669-5346 E-MAIL:sales@sanyo-machine.on.ca



These handheld nutrunners have been based upon the accumulated experience from producing electric nutrunners since 1976.

Compact, Ultra-Light Weight & High Power

● SMALL & ULTRA-LIGHT TOOL

Newly designed small motor and high-rigidity resin molded body combine to create a light weight tool 1.96lbs (= 0.89kg : 12 N.m Pistol Type).

LOW OPERATION TEMPERATURE

The newly designed motor is so efficient that the operating temperatures are kept at a minimum, even during high duty cycle.

• THIN & HIGH-FLEX CABLE

The thin and flexible tool cable makes it much easier for the operator to handle the tool, thus reducing operators strain and fatigue.

COMPACT CONTROLLER

The new space saving, light weight controller can be installed anywhere you like. With its compact size you can install it various places such as line-side or on top of a cart.





High performance & High Durability & High Reliability

• TOP-LEVEL HIGH-SPEED TOOL IN THE WORLD

The newly designed high speed Pistol tool (SHD-T2-Type), achieves speeds over 3 times faster than an original. With increased brake performance, the tool can reach seating torque at high speeds, reducing tightening times.

SUPER DURABILITY

One million consecutive running test, at rated torque, guarantees outstanding durability. High precision and high efficiency of the planetary gear contributes toward this high durability and reduces operating noise.

NON CONTACT TRIGGER SW

Non-contact, non-wear trigger switch makes the tool trigger highly durable. Two speed trigger provides more accurate tool socket and fastener thread engagement.

LED INDICATOR

End of cycle data (OK/NG) can be easily confirmed by 3 brightly colored LEDs. The color and status (Blinking/Steady) of the LEDs can be user defined based on error/ fault codes.

• RESOLVER FOR ANGLE DETECTION

Resolver for measuring degrees of rotation (Angle Detection) ensures high relaiablity and anti-shock durability.

QUICK & EASY TOOL CHANGE

All the tools are inspected and calibrated prior to shipping and are ready for production just by hooking up to the controller.

High Precision & Multi-Function

HIGH ACCURACY & QUICK RESPONSE

Sanyo's newly designed quick response motor can reach seating torque at maximum speeds with minimal torque over-run issues, bringing highly accurate fastening at decreased cycle times.

PROGRAMMABLE & MULTI-FUNCTIONS

Tightening motions and sequences are fully programmable. You can change tightening parameters such as tightening speed and acceleration ratio. Also, you can program complicated tightening motions such as dual tightening.

• 64 FASTENING PROGRAM AVAILABLE

There are 64 tightening programs. Within each program, parameters such as tightening torque and acceleration ratio can be customized to your specific requirement. By changing the program, this tool can handle 64 totally different fastening applications.

LOW REACTION ALGORITHM

Using ergonomically designed algorithm, operators are considerably relieved from tightening strain. The tool can adjust tightening speeds, by monitoring the torque curve, to reach target torque within a programmed time. When fastening is done on table surface materials, such as sheet metal, this tool automatically distinguishes between soft and hard joints and selects optimum fastening motions.

IMPACT MODE

Impact Tightening Mode helps absorb torque reaction allowing operators to do the job with minimum physical strain.

(Note: Tightening accuracy in Impact Mode gets slightly lower than one in Nutrunner Mode)

BATCH COUNT

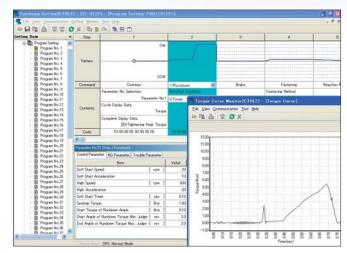
Batch count function helps to error proof the fastening process by setting a number of OK joints needed to complete a set amount of fastening cycles (batch). This makes sure all joints in the batch have been fastened. Even in multiple fastening sequence, individual parameters can be set for each fastening.

WIDE COMMUNICATION CAPABILITY

Fastening Data acquisition is available via RS232C port. Additional options are available via Field bus (Devicenet, Profibus, CC-Link) and Ethernet (TCP/IP).

• USER INTERFACE TERMINAL SOFTWARE

By using the User Interface Terminal Software, tightening parameters & programs can be set up and the end-of-cycle fastening and torque curve data can be collected.



SHD-T1-010S

Fastening Setting / Torque Curve Display Screen

_	View Commun		rietz) - poi	orage Faste	rang Datas			-		-				-		-		-		-		
△ B		N	X O S																			
No	Judgment	Data Count	Tool Type	Program No.	Final Step	,	hem1	,	hem2	1	hem3	1	iom4	1	tem5	,	hem6	,	bem7	,	tenil	Ī
0131	OK	38	050A	1	6	2	10.13	2	1.89	2	8.6	2	8.5	2	0.0	2	0.0	2	0.0	4	50.09	Ī
0132	OK.	30	050A	1	6	2	10.06	2	1.90	2	0.7	2	0.6	2	0.0	2	0.0	2	0.0	4	50.03	
0133	OK	38	050A	- 1	6	2	10.13	2	1.89	2	8.6	2	8.5	2	0.0	2	0.0	2	0.0	4	50.03	ľ
0134	OK.	30	050A	1	6	2	10.00	2	1.09	2	0.6	2	0.5	2	0.0	2	0.0	2	0.0	4	50.03	Γ
0135	OK	38	050A	1	6	2	10.59	2	1.89	2	8.6	2	8.5	2	0.0	2	0.0	2	0.0	4	50.03	
0136	OK	30	050A	1	6	2	10.53	2	1.09	2	0.6	2	0.5	2	0.0	2	0.0	2	0.0	4	50.00	
0137	OK	38	050A	1	6	2	10.25	2	1.90	2	8.6	2	8.6	2	0.0	2	0.0	2	0.0	4	50.06	
0138	OK.	30	050A	1	6	2	10.09	2	1.89	2	0.6	2	8.6	2	0.0	2	0.0	2	0.0	4	50.06	
0139	OK	38	050A	1	6	2	10.09	2	1.89	2	8.6	2	8.6	2	0.0	2	0.0	2	0.0	4	50.03	
0140	OK.	30	050A	1	6	2	10.34	2	1.90	2	0.7	2	8.6	2	0.0	2	0.0	2	0.0	4	50.09	
0141	OK	38	050A	1	6	2	10.44	2	1.89	2	8.6	2	8.5	2	0.0	2	0.0	2	0.0	4	50.00	
0142	OK	30	050A	1	6	2	10.13	2	1.09	2	0.6	2	0.5	2	0.0	2	0.0	2	0.0	4	50.00	
0143	OK	38	050A	1	6	2	10.28	2	1.90	2	8.7	2	8.6	2	0.0	2	0.0	2	0.0	4	50.09	
0144	OK.	30	050A	1	6	2	10.22	2	1.89	2	0.6	2	8.5	2	0.0	2	0.0	2	0.0	4	50.06	
0145	OK	38	050A	1	6	2	10.44	2	1.89	2	8.6	2	8.5	2	0.0	2	0.0	2	0.0	4	50.00	
0146	OK.	30	050A	1	6	2	10.22	2	1.89	2	0.6	2	8.6	2	0.0	2	0.0	2	0.0	4	50.00	
0147	OK	38	050A	1	6	2	10.09	2	1.89	2	8.6	2	8.5	2	0.0	2	0.0	2	0.0	4	50.00	
0148	OK.	30	050A	1	6	2	10.25	2	1.89	2	0.6	2	8.5	2	0.0	2	0.0	2	0.0	4	50.03	
0149	OK	38	050A	1	6	2	10.13	2	1.89	2	8.6	2	8.5	2	0.0	2	0.0	2	0.0	4	50.00	
0150	OK.	30	050A	1	6	2	10.50	2	1.90	2	0.7	2	8.6	2	0.0	2	0.0	2	0.0	4	50.00	
0151	OK	38	050A	1	6	2	10.06	2	1.90	2	8.6	2	8.6	2	0.0	2	0.0	2	0.0	4	50.03	
0152	OK.	30	050A	1	6	2	10.00	2	1.09	2	0.6	2	0.5	2	0.0	2	0.0	2	0.0	4	50.06	
0153	OK	38	050A	1	6	2	10.31	2	1.89	2	8.6	2	8.5	2	0.0	2	0.0	2	0.0	4	50.03	
0154	OK.	30	050A	1	6	2	10.31	2	1.90	2	0.7	2	0.7	2	0.0	2	0.0	2	0.0	4	50.06	
0155	OK	38	050A	1	6	2	10.13	2	1.91	2	8.8	2	8.7	2	0.0	2	0.0	2	0.0	4	50.03	
0156	OK.	30	060A	1	6	2	10.31	2	1.09	2	0.6	2	0.5	2	0.0	2	0.0	2	0.0	4	50.00	
0157	OK	38	050A	1	6	2	10.13	2	1.89	2	8.6	2	8.6	2	0.0	2	0.0	2	0.0	4	50.06	
0158	OK.	30	050A	1	6	2	10.22	2	1.09	2	8.6	2	0.6	2	0.0	2	0.0	2	0.0	4	50.03	

End of Cycle Data Display Screen

