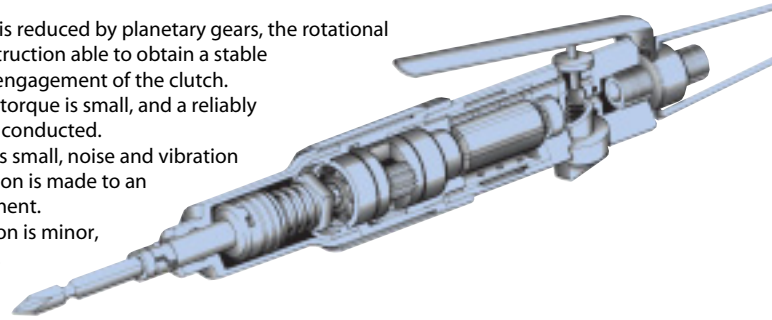


AIR SCREWDRIVERS

Clutch Type Air Screwdriver

The speed of rotor rotation is reduced by planetary gears, the rotational torque is raised, and a construction able to obtain a stable tightening is produced via engagement of the clutch.

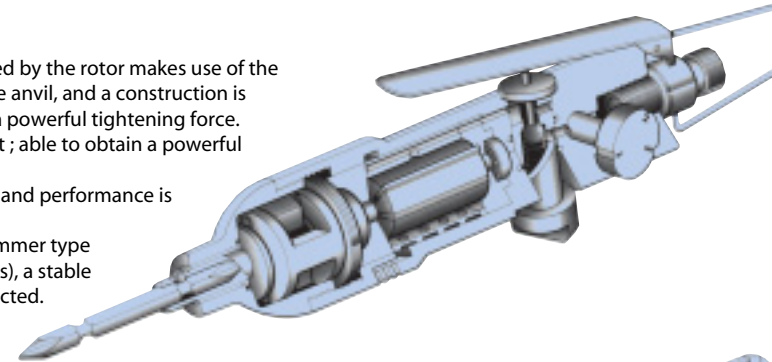
- Dispersion in tightening torque is small, and a reliably stable tightening can be conducted.
- Since percussion action is small, noise and vibration are minimized contribution is made to an improved work environment.
- Since component abrasion is minor, it has superior durability.



Impact Type Air Screwdriver

The hammer which is rotated by the rotor makes use of the impact of the striking on the anvil, and a construction is obtained which generates a powerful tightening force.

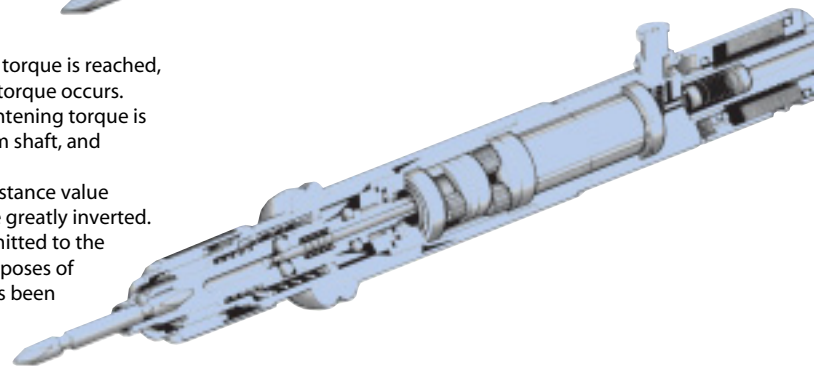
- compact and lightweight ; able to obtain a powerful tightening force.
- Tightening speed is fast, and performance is superior.
- Since this is a double hammer type (1 rotation, 2 percussions), a stable tightening can be conducted.



Torque Control Type Air Screwdriver

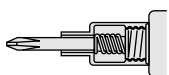
A driver with a construction whereby when the pre-set torque is reached, the air is automatically cut off, and stoppage at a fixed torque occurs.

- Clutch type ... A construction whereby when the tightening torque is reached, the air is cut off by the movement of the cam shaft, and operation is suspended.
- Impact type ... As the bolt or nut is tightened, its resistance value increases, and the percussion part and rotary part are greatly inverted. This angle of inversion is caught by the clutch, transmitted to the stop valve, and the air is cut off. Furthermore, for purposes of transmission of a stable torque, a torsion bar anvil has been built-in.



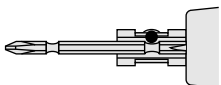
1.Bit Installation Methods

● Bit-guide spring method



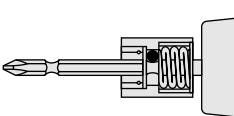
When the guide cover (left screw) is loosened, the bit guide spring can be taken out. Installation is conducted by inserting the guide spring into the bit, and fastening it with the guide bar.

● Ball retainer method



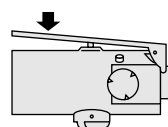
When the bit is strongly pressed in, the ball fits into the groove of the bit, fixing it in place.

● Quick chuck method



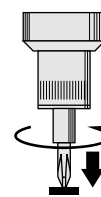
After inserting until the bit sleeve has been made to move and the bit stops, when the sleeve is released, it is fixed in place.

2.Startup



● Starting lever method

When the starting lever is pushed, air passes through the inserted part, and the motor part rotates.



● Push start method

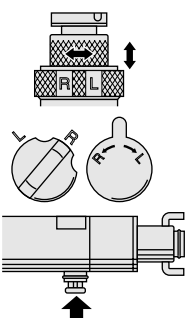
When the bit is pushed against the vise, the throttle push rod pushes up the valve ball, air flows in , and operation commences. Since the operation is commenced merely by pushing the bit against the vise, there is no burden of pushing a lever.



● Lever push starting

By pushing throttle lever, installed bit applies into the screw for the air flow to turn.

3.Right and Left Reverse



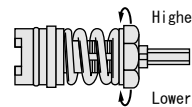
● R/L reverse lever

Switching for crosswise rotation is conducted with the R/L changeover lever (dial). When tightening, the lever (dial) is rotated to the right ; when loosening, it is rotated to the left ; and then aligned.

● R/L reverse valve

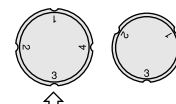
When tightening, the R/L changeover valve will start operations as is. When loosening, the R/L changeover valve is pushed to conduct startup of operations.

4.Adjustment of Tightening Torque



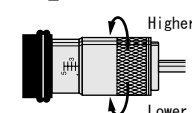
● Adjust - nut

With regard to the reduced speed type air driver, when the built-in adjust-nut is tightened, adjustment is made to a higher tightening torque ; when it is loosened, a weaker tightening torque results.



● Adjust-dial

In the case where air pressure is too high, one can adjust the air flow rate by turning the adjust-dial by hand, and obtain a torque suited to work operations.



● Adjust-dial (torque control type)

The torque value is set by rotating the adjust-dial. A higher torque value is obtainable by turning the dial to the right, and a lower torque value, by turning to the left.

* Capacity is listed as instant reference and depends on operation conditions.

MACHINE SCREW Dia. 2.6~3.5mm (7/64"-9/64")

GT-H4RC



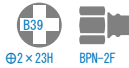
Ball spring retainer
6,35mm



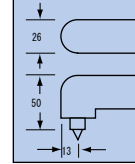
Noise reducer

OP Torque adjusting spring (medium / weak)

Accessories



Angle head size



MACHINE SCREW Dia. 3.5~4.5mm (9/64" -11/64")

GT-H5RC



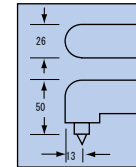
Ball spring retainer
6,35mm



Accessories



Angle head size



MACHINE SCREW Dia. 3~4mm (1/8" - 5/32")

GT-H4R



Ball spring retainer
6,35mm

Lever push starting /Noise reducer

OP Anvil for A/F 5mm bit
Torque adjusting spring (medium / weak)

Accessories



GT-H4PR



Ball spring retainer
6,35mm

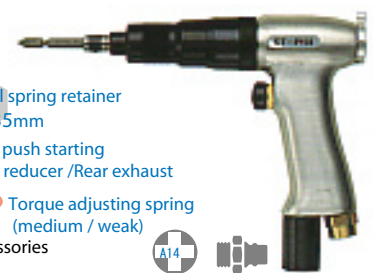
Push startup type/Rear exhaust

OP Torque adjusting spring (medium / weak)

Accessories



GT-PH4



Ball spring retainer
6,35mm

Lever push starting
Noise reducer /Rear exhaust

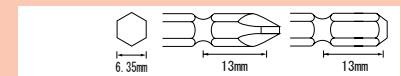
OP Torque adjusting spring (medium / weak)

Accessories

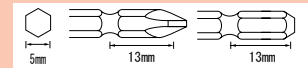


Bit installation anvil application

Unless otherwise, following bit specification should be standardized.



Option : Following retainer anvil is available.



MACHINE SCREW Dia. 4~5mm (5/32" - 3/16")

GT-H5R



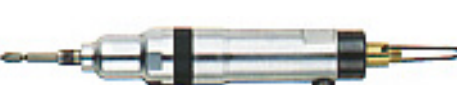
Ball spring retainer
6,35mm

Lever push starting

Accessories



GT-H5P



Ball spring retainer
6,35mm

Push startup type/Rear exhaust

Accessories



GT-PH5



Ball spring retainer
6,35mm

Lever push starting
Noise reducer /Rear exhaust

Accessories



EDP No.	Model No.	Torque Range		Free Speed rpm	Air Consumption m ³ /min.	Overall length		Weight		Air hose Size	Body Form
		N. m	(ft. lbf)			mm	in.	g	lb.		
311036	GT-H4R	1.0-2.2	(0.7-1.6)	1,500	0.2	190	7 15/32	590	1.30	PF1/4	Straight
311046	GT-H4PR	1.0-2.2	(0.8-1.6)	1,500	0.19	213	8 3/8	610	1.34	PF1/4	Straight
311037	GT-PH4	1.0-2.2	(0.8-1.6)	1,500	0.19	180	7 3/32	800	1.76	PT1/4	Pistol
311034	GT-H4RC	0.5-1.8	(0.4-1.3)	1,500	0.2	216	8 1/2	900	1.98	PF1/4	Angle
311066	GT-H5R	2.0-5.4	(1.5-4.0)	1,500	0.25	225	8 27/32	880	1.94	PF1/4	Straight
311065	GT-H5P	2.0-5.4	(1.5-4.0)	1,500	0.25	235	9 1/4	880	1.94	PF1/4	Straightl
311067	GT-PH5	2.0-5.4	(1.5-4.0)	1,500	0.25	200	7 7/8	1,070	2.36	PT1/4	Pistol
311064	GT-H5RC	1.0-3.0	(0.7-2.2)	1,500	0.25	248	9 3/4	1,190	2.62	PF1/4	Angle

* Air pressure...6kgf/cm² (85psi) * Air hose bore diameter ... 6.35mm (1/4") * Overall length ... Accessory, hanger part not included.
* Weight ...Accessories not included.

AIR SCREWDRIVER, IMPACT TYPE

For Powerful Fastening

Capacity is listed as instant reference and depends on operation conditions.

MACHINE SCREW Dia. 4-5mm (5/32" - 3/16")

GT-S4. 5D



Bit sleeve retainer
6.35mm
Noise reducer

Accessories



GT-PI R



Ball spring retainer
6.35mm
Anvil for A/F 5mm bit

Accessories



GT-PLP



Ball spring retainer
6.35mm
Push startup type/Rear exhaust

Accessories



GT-PLZ



Bit sleeve retainer
(Pull type) 6.35mm
Noise reducer

Accessories



GT-P4. 5D



Bit sleeve retainer
6.35mm
Noise reducer/Rear exhaust

Accessories

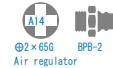


GT-P5LS



Bit sleeve retainer
(Pull type) 6.35mm
Noise reducer/Rear exhaust

Accessories

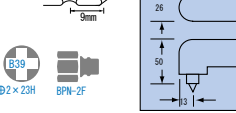


GT-PLRC

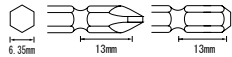


Ball spring retainer
6.35mm

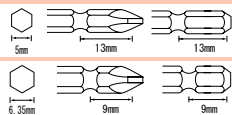
Accessories



Bit installation anvil application
Unless otherwise, following bit specification should be standardized.



Option : Following retainer anvils are available.



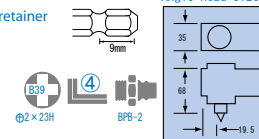
MACHINE SCREW Dia. 5-6mm (3/16" - 15/64")

GT-S6CD



Ball spring retainer
6.35mm

Accessories



MACHINE SCREW Dia. 5-6mm (3/16" - 15/64")

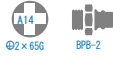
GT-PLH II



Bit sleeve retainer (Pull type)
6.35mm

Anvil (Bit insertion, push type)
(Bit insertion length 9mm)

Accessories

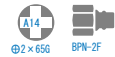


GT-S6MLR



Bit sleeve retainer (Pull type)
6.35mm

Accessories



GT-S6HS



Bit sleeve retainer
6.35mm

Accessories



EDP No.	Model No.	Torque Range		FreeSpeed rpm	Air Consumption m ³ /min	Overall length		g	lb.	Weight Size	Air hose Body Form
		N. m	(ft. lbf)			mm	in.				
311083	GT-S4.5D	3.4 - 6.4	(2.5 - 4.7)	14,000	0.2	180	7 3/32	585	1.29	PF1/4	Straight
311096	GT-PLR	2.9 - 6.9	(2.2 - 5.1)	9,000	0.2	187	7 11/32	830	1.83	PF1/4	Straight
311095	GT-PLP	3.4 - 6.4	(2.5 - 4.7)	9,000	0.2	197	7 3/4	750	1.65	PF1/4	Straight
311111	GT-PLZ	2.9 - 6.9	(2.2 - 5.1)	9,000	0.2	205	8 5/64	950	2.09	PF1/4	Straight
311087	GT-P4.5D	3.4 - 6.4	(2.5 - 4.7)	14,000	0.2	160	6 9/32	715	1.58	PT1/4	Pistol
311097	GT-P5LS	2.9 - 6.9	(2.2 - 5.1)	9,000	0.2	165	6 1/2	980	2.16	PT1/4	Pistol
311112	GT-PLRC	2.0 - 5.9	(1.5 - 4.3)	9,000	0.2	228	8 31/32	1,100	2.43	PF1/4	Angle
324010	GT-S6CD	4.9-14.7	(3.6-10.9)	5,600	0.3	250	9 27/32	1,870	4.12	PT1/4	Angle
311094	GT-PLH II	3.9 - 9.8	(2.9 - 7.2)	8,500	0.3	213	8 3/8	925	2.04	PT1/4	Straight
311106	GT-S6MLR	4.4-10.8	(3.3 - 8.0)	8,500	0.25	215	8 15/32	1,120	2.47	PF1/4	Straight
311107	GT-S6HS	7.9-19.6	(5.8-14.5)	10,000	0.3	220	8 21/32	1,100	2.43	PF1/4	Straight

* Air pressure ... 6kgf / cm² (85 psi) * Air hose bore diameter ... 6.35mm (1/4") * Overall light... Accessorise, hanger part not included.

* Weight ... Accessories not included.

Capacity is listed as instant reference and depends on operation conditions.

MACHINE SCREW Dia. 5-6mm (3/16" - 15/64")

GT-P6LS III

Bit sleeve retainer
(Pull type) 6.35mm

Noise reducer /Rear exhaust

OP Anvil (Bit insertion length 9mm)
(Bit insertion, push type)

Accessories



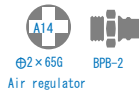
Rubber grip

GT-P6HS

Bit sleeve retainer
6.35mm

Noise reducer/Rear exhaust

Accessories

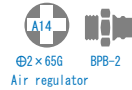


GT-P6MS

Bit sleeve retainer
(Pull type) 6.35mm

Noise reducer/Rear exhaust

Accessories



MACHINE SCREW Dia. 6-8mm (15/64" - 5/16")

GT-S6.5D

Bit sleeve retainer
6.35mm

OP Anvil (Bit insertion length 9mm)

Accessories

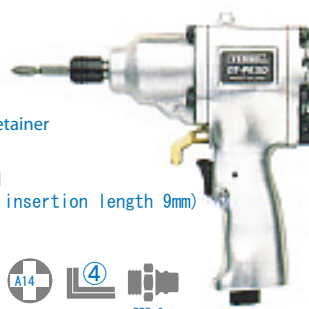


GT-P6.5D

Bit sleeve retainer
6.35mm

OP Anvil (Bit insertion length 9mm)

Accessories

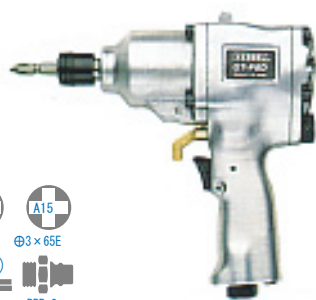
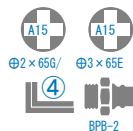


MACHINE SCREW Dia. 8-10mm (5/16" - 3/8")

GT-P8D

Bit sleeve retainer
8mm

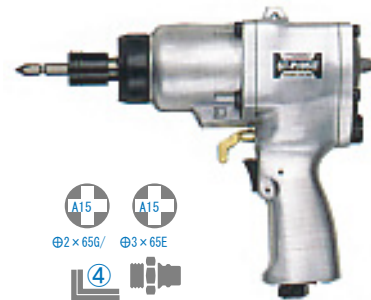
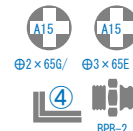
Accessories



GT-P10S II

Bit sleeve retainer
(Pull type) 8mm

Accessories



EDP No.	Model No.	Torque Range		FreeSpeed	Air Consumption	Overall length		Weight		Air hose	Body
		N. m	(ft. lbf)	rpm	m ³ / min.	mm	in.	g	lb.	Size	Form
311098	GT-P6LS III	3.9- 9.8	(2.9 - 7.2)	9,000	0.3	177	6 31/32	955	2.11	PT1/4	Pistol
311131	GT-P6HS	7.9-19.6	(5.8 - 14.5)	10,000	0.3	180	7 3/32	1,170	2.58	PT1/4	Pistol
311121	GT-P6MS	4.4-10.8	(3.3 - 8.0)	8,500	0.25	185	7 9/32	1,380	3.04	PT1/4	Pistol
324007	GT-S6.5D	7.9-24.5	(5.8 - 18.1)	7,500	0.34	220	8 21/32	1,400	3.08	PT1/4	Straight
324034	GT-P6.5D	7.9-24.5	(5.8 - 18.1)	7,800	0.38	152	5 31/32	1,450	3.20	PT1/4	Pistol
324046	GT-P8D	9.8-58.8	(7.2 - 43.4)	7,500	0.4	172	6 25/32	1,930	4.25	PT1/4	Pistol
324060	GT-P10S II	29.4-98.1	(21.57-72.3)	6,500	0.39	206	8 3/32	2,460	5.42	PT1/4	Pistol

* Air pressure ... 6kgf / cm² (85 psi) * Air hose bore diameter ... 6.35mm (1/4") * Overall length ... Accessories ,hanger part not included * Weight ... Accessories not included.

Capacity and working torque are listed as instant reference and depends on operation conditions.

MACHINE SCREW Dia. 2-2.5mm(5/64"- 3/32")

MACHINE SCREW Dia. 2.2-3mm(5/64"-1/8")

MACHINE SCREW Dia. 3-4mm(5/64"-5/32")

GT-S4TG



Ball spring retainer
6.35mm

Push startup /Noise reducer/Rear exhaust
OP Anvil for A/F 5mm bit
Air hose size(1/8"), Torque spring

Accessories



GT-S4TS



Ball spring retainer
6.35mm

Push startup /Noise reducer/Rear exhaust
OP Anvil for A/F 5mm bit
Air hose size(1/8"), Torque spring

Accessorie



GT-S4TR



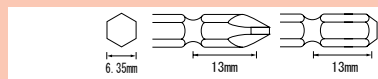
Ball spring retainer
6.35mm

Push startup /Noise reducer/Rear exhaust
OP Anvil for A/F 5mm bit
Air hose size(1/8"), Torque spring

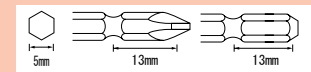
Accessorie



Bit installation anvil application
Unless otherwise, following bit specification
should be standardized.



Option :
Following retainer anvil is available.



MACHINE SCREW Dia. 4.5-6mm(11/64"- 15/64")

GT-S5TS



Bit sleeve retainer
(Pull type)6.35mm

Impact type

Accessorie



EDP No.	Model No.	Torque Range		Free Seed rpm	Air Consumption m ³ /min.	Overall length		Weight		Air hose Size	Body Form
		N. m	(ft. lbf)			mm	in.	g	lb.		
311203	GT-S4TG	0.3 - 0.8	(0.2-0.6)	2,300	0.28	210	8 17/64	650	1.43	PF1/4	Straight
311202	GT-S4TS	0.5 - 1.3	(0.4-1.0)	1,700	0.28	210	8 17/64	640	1.41	PF1/4	Straight
311201	GT-S4TR	0.7 - 2.1	(0.5-1.5)	1,100	0.28	210	8 17/64	650	1.43	PT1/4	Straight
324002	GT-S5TS	3.9 - 9.8	(2.9-7.2)	6,500	0.25	292	11 7/32	1,280	2.82	PF1/4	Straight

* Air pressure ... 6kgf/ cm² (85 psi) * Air hose bore diameter ... 6.35mm (1/4") * Overall length ... Accessories parts,hanger part not included.

* Weight ... Accessories not included.

GT-S4T series S4TR / S4TS / S4TG
Torque Spring Change

GT-S4T series are easy to adjust torque range only by replacing optional torque spring. Torque value of screw fastening should be in the center of the torque range when adjusted. (see right) Also we will recommend you to choose larger free speed when faster fastening is necessary.

Unit : kgf-cm

CAPACITY RANGE	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21																		
	GT-S4TR Free load rpm. 1,100rpm	Standard (M3.0~M4.0)																	
《Option》 (M2.0~M3.0)																			
《Option》 (M2.0~M2.5)																			
GT-S4TS Free load rpm. 1,700rpm	《Option》 (M3.0~M3.5)																		
	Standard (M2.2~M3.0)																		
	《Option》 (M2.0~M2.5)																		
GT-S4TG Free load rpm. 2,300rpm	《Option》 (M2.2~M3.0)																		
	《Option》 (M2.0~M3.0)																		
	Standard (M2.0~M2.5)																		

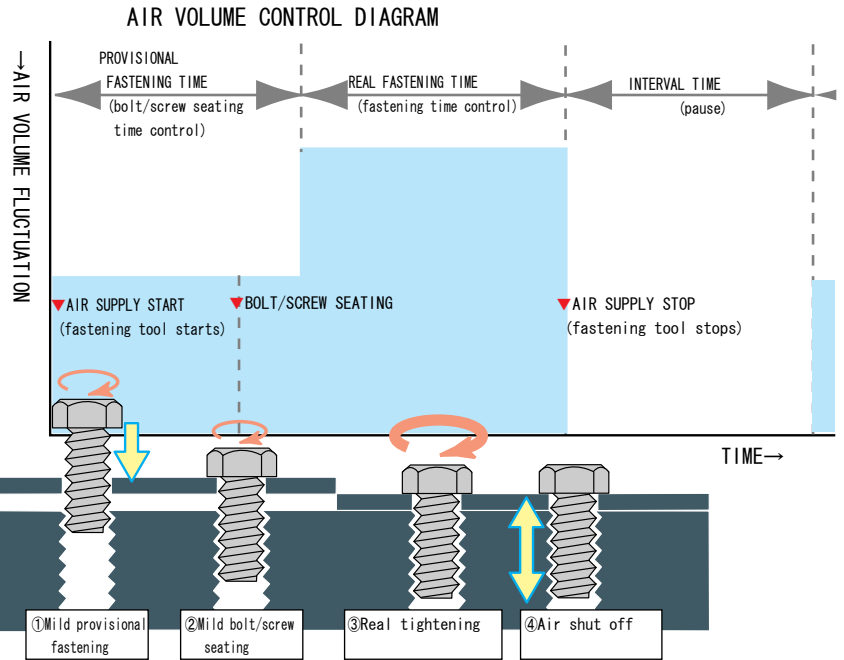
AT-03



● Use with the adapter connected.

- * By just connecting this with presently use air tools and oil pulse tools, incomparably stable fastening torque can be secured.
- * High accurate torque control can be come true by original screw seating.
- * easy operation to settle torque.
- * Compact design.

TORQPRO AT-03 is a torque stabilizer which controls the volume of air supply to a fastening tool and fastening time of the tool.



EDP. No.	Model No.	W × H × D mm	Weight kg	Input Voltage	Currency (Max.) mA	Use Air Pressure kgf/cm ²	Use Temperatures °C	Air Hose Inner Diameter mm
660001	AT-03	85 × 225 × 50	1.7	DC12V	125	5~6	3~40	6.35

Separately sold adapter specs

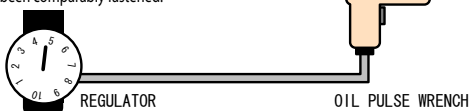
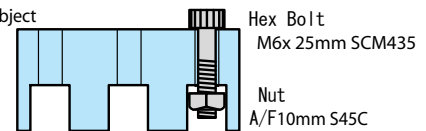
EDP No.660021	AC-01	input AC100V 50/60Hz	Output DC12V
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Comparative test

Fastening torque examination

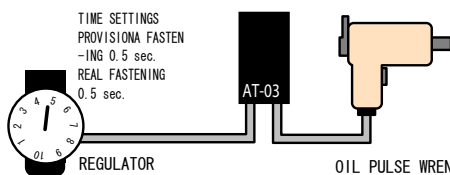
Connecting TORQPRO, No. AT-03 with oil pulse (hydraulic) wrench (6-8mm type) and fastened the bolt (M6 x 25) as below illustrated. Meanwhile, without this TORQPRO, regular fastening by manual operation has been comparably fastened.

- Tool ... Oil pulse wrenches 6-8mm type
- Air pressure... 6kgf / cm²
- Torque calibration devise ... PROTO Torque wrench 6177A, Torque range 0-280kgf.cm Release Torque



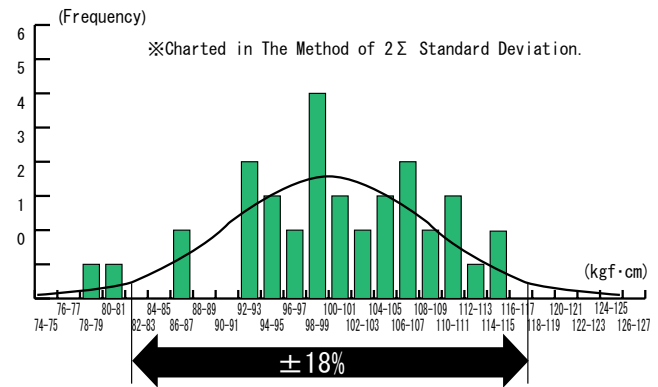
TEST	1	2	3	4	5	6	7	8	9	10	TEST	11	12	13	14	15	16	17	18	19	20	TEST	21	22	23	24	25	26	27	28	29	30	TEST	31	32	33	34	35	36	37	38	39	40
110	96	87	80	107	79	94	92	110	110	110	114	101	112	100	100	107	104	95	114	114	96	108	103	105	98	99	98	92	106	99	99	87	94	32	108	93	106	104	114	99	102	99	

※Test Repeat 40 Times Mean Number Value: 100 Standard Deviation: 8.71



TEST	1	2	3	4	5	6	7	8	9	10	TEST	11	12	13	14	15	16	17	18	19	20	TEST	21	22	23	24	25	26	27	28	29	30	TEST	31	32	33	34	35	36	37	38	39	40
102	96	95	98	102	100	99	99	94	100	100	96	88	93	92	91	99	96	93	97	97	96	92	94	94	90	95	95	94	96	98	89	94	32	88	96	90	95	94	94	96	91	106	88

※Test Repeat 40 Times Mean Number Value: 95 Standard Deviation: 4.48



Special Remarks :
The data produced 18% fluctuation of the value by Manual Fastening can be compared to 9% with TORQPRO placed before the tool.
18% → 9% with TORQPRO!

