

Made in Japan

革新
の
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結

Innovation of Fastening

Prevailing Torque Type
Locknut

FINE U-NUT[®]
Series

安全と
安心は



Fuji Seimitsu Co., Ltd.

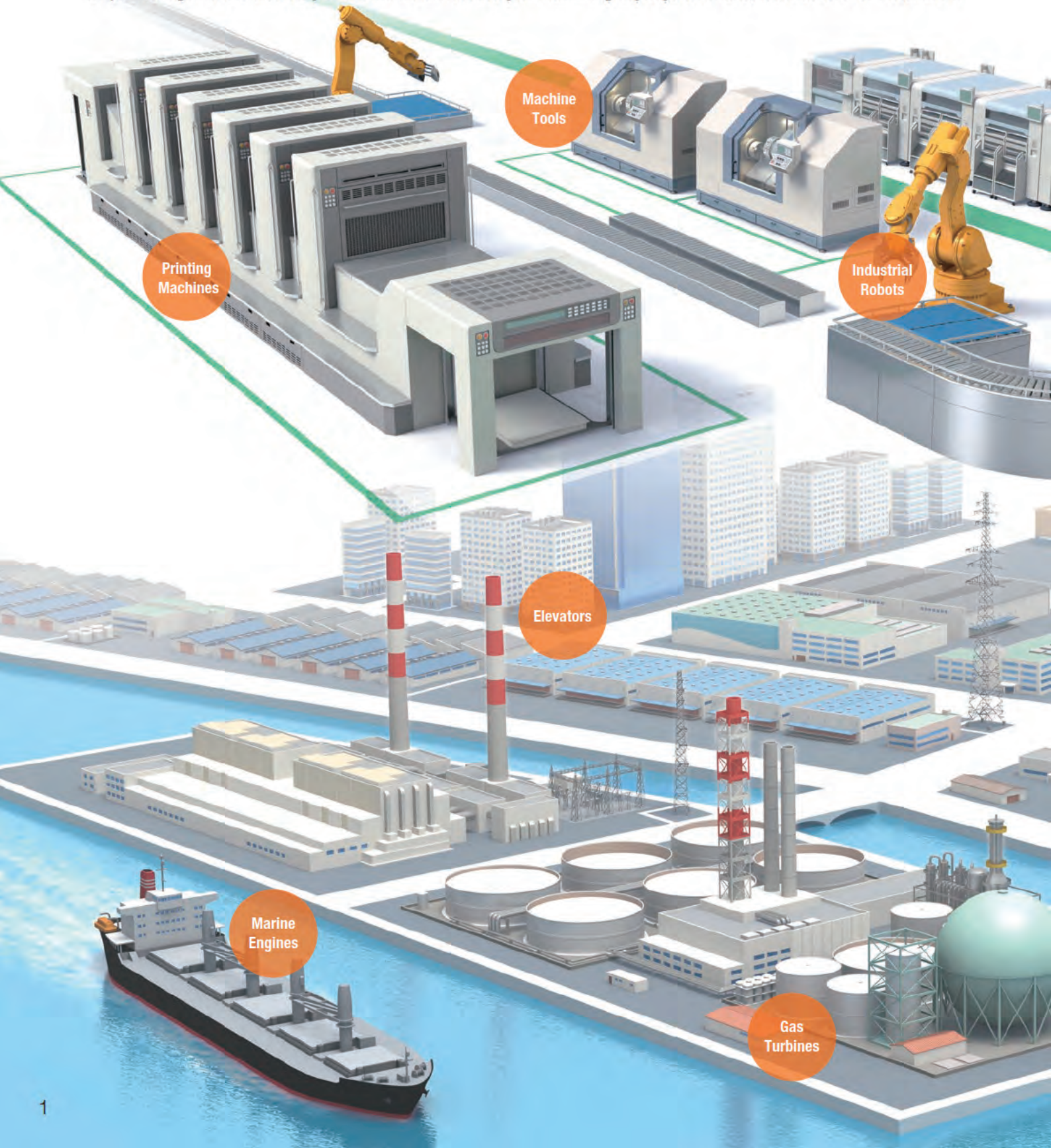
Fastening Revolution for Bearings

With FINE U-NUT, variable positioning at the appropriate location is possible and torque management is also easy.

This groundbreaking locknut for use with bearings makes unnecessary of machining keyways on shafts, lockwashers, and a high degree of skill for installation.

FINE U-NUT improves the rotational balance of bearings that provide power in all machine industries.

With FINE U-NUT which this groundbreaking locknut, variable positioning at the appropriate location is possible and torque management is also easy and it makes unnecessary of machining keyways on shafts, lockwashers for installation.



FINE U-NUT®



It's a prevailing-torque type locknut. It provides the stable locking performance and it can help you reduce the total cost.

3

FINE U-NUT

TWINFU-NUT®



It's a prevailing-torque type precision locknut. 2 Friction Rings maintain high locking performance, and it shows high accuracy of bearing surface runout by processing the thread and bearing surface at the same time.

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TWIN FU-NUT

FINE U-NUT® TOOL SET



The useful TOOL SET for FINE U-NUT and TWIN FU-NUT.

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TOOL SET

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Semiconductor Manufacturing Equipments

Automated Warehouses

Textile Machineries

Cranes

FINE U-NUT®

Fastening Revolution for Bearings

With FINE U-NUT, unlike lockwasher, variable positioning at the appropriate location is possible and torque management is also easy. This groundbreaking locknut for use with bearings makes unnecessary of machining key ways on shafts, lockwashers, and a high degree of skill for installation.

FINE U-NUT improves the rotational balance of bearings that provide power in all machine industries. Reduction of equipment rotation loss and a reduction of power consumption are also realized.



Features

Reusability

Reuse is possible. (Please refer to the chart and table on the right side)

Simple Adjustment

Assembly does not require a high degree of skill.
Fine adjustment is possible and torque management is easy.
Up to M100 for tightening tools are available.

Labor Saving and Simplified Assembly

Machining of key ways on shafts is unnecessary.
No lockwasher is required, which removes the possibility of the lockwasher being incorrectly installed.

Shaft Balancing

Shaft rotational balance is improved.

Weight Saving

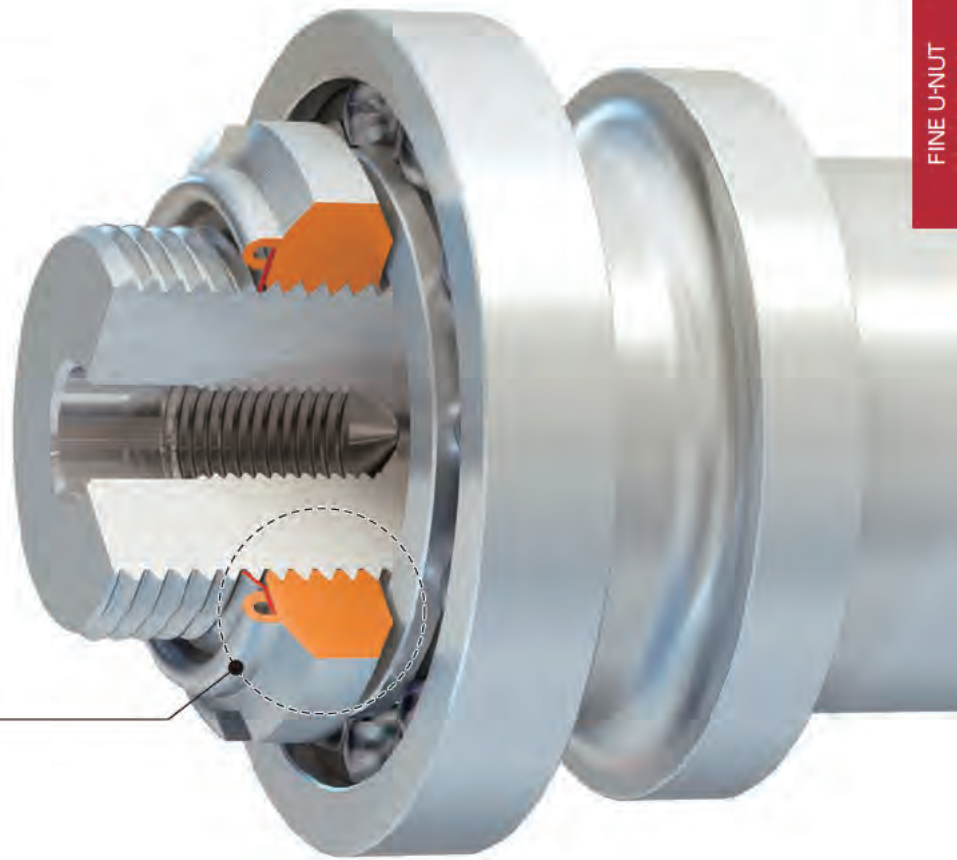
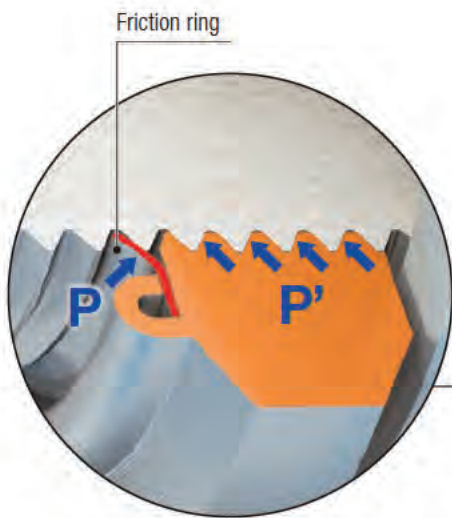
Hollow shaft can be used.

Economical Efficiency

This revolutionary locknut for bearings improves workability, and helps lower total cost.

Structure and Function

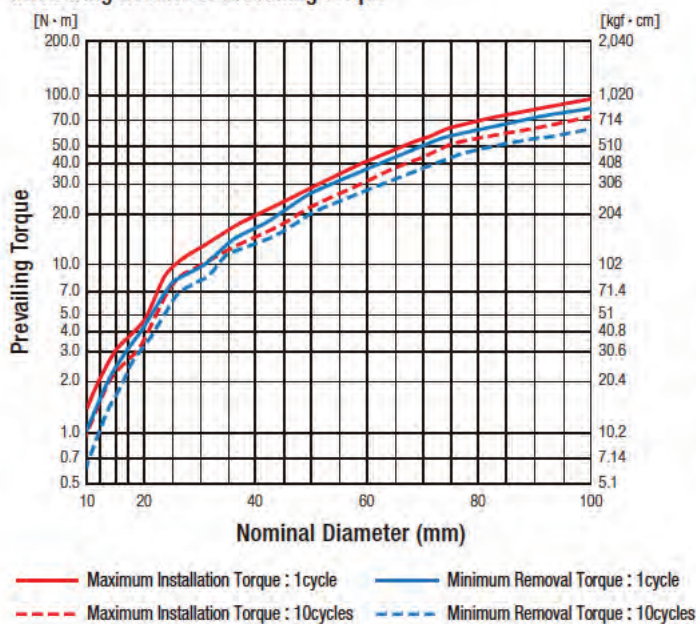
The Friction Ring touches the shaft screw threads, and stress (P) is produced through a spring effect when the nut is tightened. Along with a reaction force (P'), a frictional torque (prevailing torque) that presses against the shaft screw threads and prevents free rotation is produced.



Prevailing Torque and Reusability

Prevailing Torque is a frictional torque when Friction Ring touches the shaft screw threads.

Measuring Results of Prevailing Torque



Example

FUN04SC M20×1 [N·m]			
Installation Torque (Max.)		Removal Torque (Min.)	
1 cycle	10 cycles	1 cycle	10 cycles
4.7	3.5	4.3	3.3

* According to our test results

Even after using 10 cycles, the reduction of prevailing torque value is slight, so you can reuse it.

[Test Conditions]

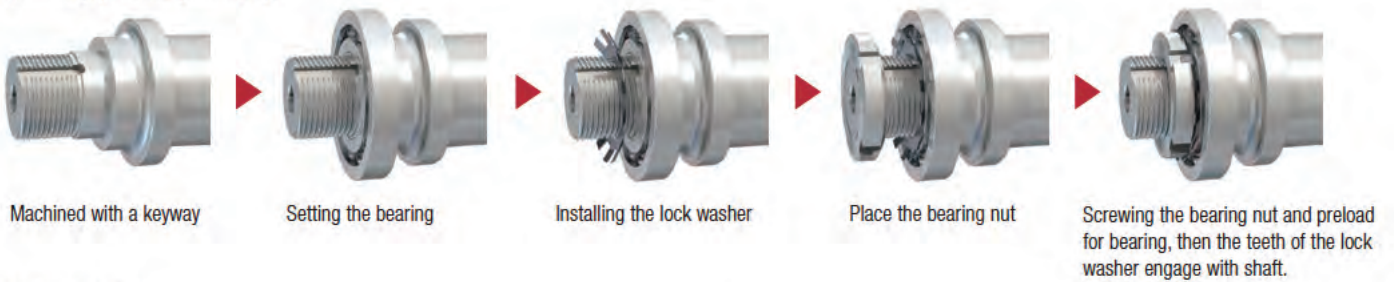
- Bolt material: SCM435®
- Bolt thread accuracy: JIS 6g
- Surface treatment: Plain (Nut / Bolt)
- Lubrication: Penetrating lubricant

* See the table on the right for prevailing torque values after used for 10 cycles.



Installation Instructions

[Existing product (Example)]



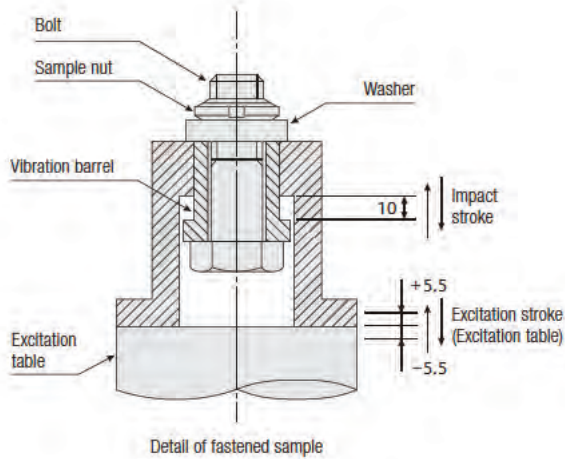
[FINE U-NUT]



Axial Impact Vibration Test

Test Conditions

Sample size	M20×1
Tightening torque	53.9N · m (550kgf · cm)



Specification of Testing Machine

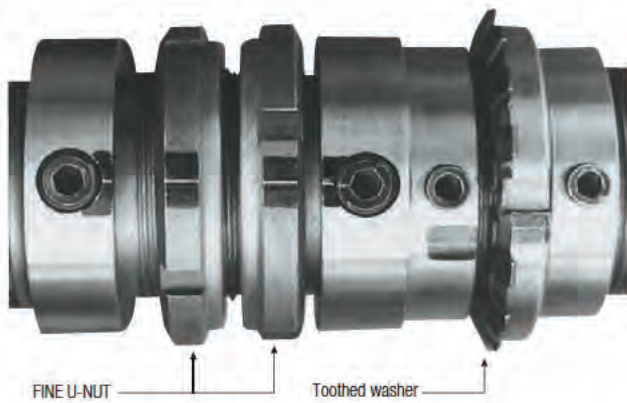
Frequency	1,278c.p.m.
Excitation stroke	11mm
Impact stroke	10mm
Vibrating acceleration of excitation table	10G
Excitation time	60 min.
Impact direction	Bolt axial direction

Test Result

Sample nut	Excitation time (min.)						Test result
	10	20	30	40	50	60	
Commercial nut + Lock washer	Looseness	△	×	×	×	×	Nut came off
FINE U-NUT							Passed

△ Breakage of toothed washer (11 min.)

Rotational Life Test



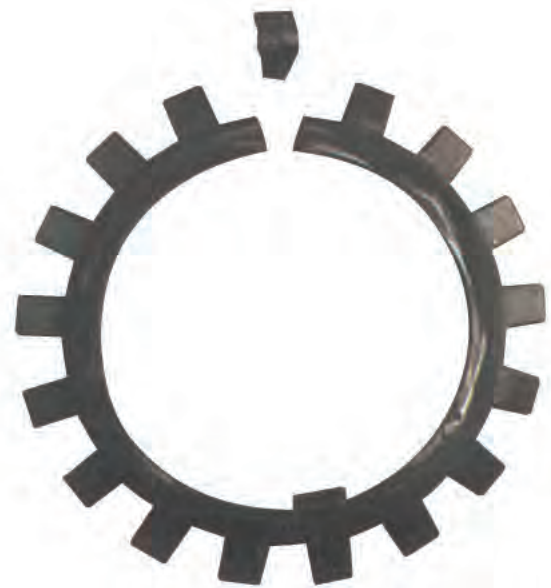
Tightening conditions of FINE U-NUT after 330,000 endurance cycles

Test Conditions

Sample size	M55×2
Number of rotations	2,300rpm
Testing cycles	1 cycle (forward · stop · reverse · stop) 10 sec.
Stopping time	When forward · 0.30sec When reverse · 0.27sec

Inertial Force to The Nut when It Stops

Sample	Inertial force N · m (kgf · cm)	
	Forward	Reverse
Commercial bearing nut	0.14 (1.42)	0.15 (1.57)
FINE U-NUT	0.15 (1.52)	0.17 (1.69)

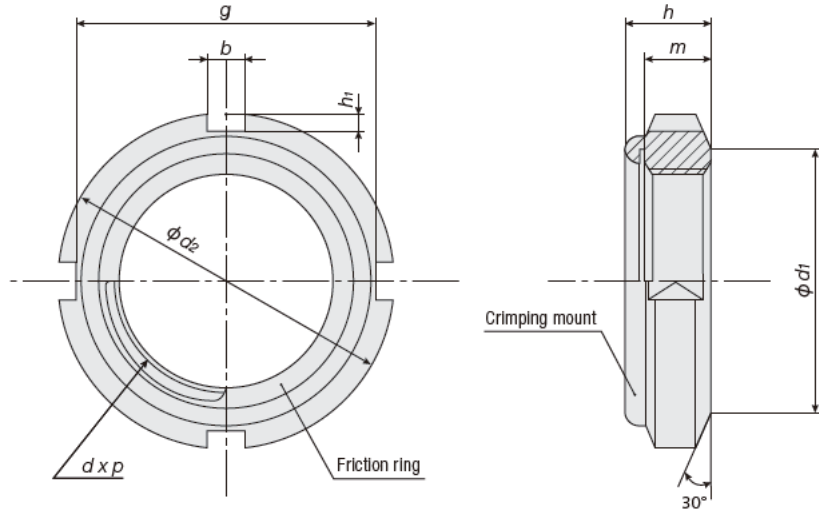


Came off lockwasher with damaged

Test Result

Sample	Sample No.	Test result
Commercial nut + Toothed washer	1	Washer damaged and nut came off at approx. 110,000 cycles
	2	Washer damaged and nut came off at approx. 330,000 cycles
FINE U-NUT	3	No change after 500,000 cycles
	4	

FINE U-NUT Dimension Table



Material (standard items)

Nut body . . . S45C-H
 SS400
 SUS304
 Friction ring SUS301

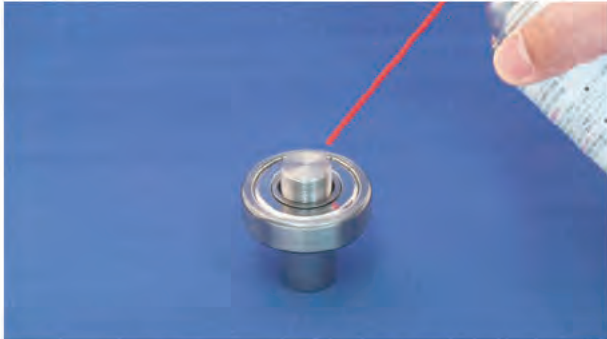
Thread accuracy: ISO6H Unit: mm

Part No.			Designation of Thread d×p	φ d ₁	φ d ₂	h	m	b	h ₁	g	Maximum face runout (maximum)	Thread accuracy length ℓmin	Unit Weight (g)
SC Series (Material S45C-H)	SS Series (Material SS400)	SUS Series (Material SUS304)											
—	FUNM8SS	—	M8×0.75	12.0	16	5.3	4.3	3	1.5	13.0	0.05	5.8	4.1
FUN00SC	FUN00SS	FUN00SUS	M10×0.75	13.5	18	5.2 ±0.3	4	3	1.8	14.4		5.5	4.5
FUN01SC	FUN01SS	FUN01SUS	M12×1	17	22	5.4	4	3	1.8	18.4		6	8
FUN02SC	FUN02SS	FUN02SUS	M15×1	21	25	6.5	5	4	1.8	21.4		7	12
FUN03SC	FUN03SS	FUN03SUS	M17×1	24	28	6.4	5	4	1.9	24.2		7	13
FUN04SC	FUN04SS	FUN04SUS	M20×1	26	32	7.7 ±0.5	6	4	1.8	28.4		8	23
FUN05SC	FUN05SS	FUN05SUS	M25×1.5	32	38	9.1	7	5	2.0	34		10	36
FUN06SC	FUN06SS	FUN06SUS	M30×1.5	38	45	9.1	7	5	2.0	41		10	45
FUN07SC	FUN07SS	FUN07SUS	M35×1.5	44	52	10.2 ±0.8	8	5	2.0	48		11	70
FUN08SC	FUN08SS	FUN08SUS	M40×1.5	50	58	11.2	9	6	2.5	53		12	95
FUN09SC	FUN09SS	FUN09SUS	M45×1.5	56	65	12.5	10	6	2.5	60		13	130
FUN10SC	FUN10SS	FUN10SUS	M50×1.5	61	70	13.5 ±1.0	11	6	2.5	65		14	160
FUN11SC	FUN11SS	FUN11SUS	M55×2	67	75	13.5	11	7	3.0	69		15	185
FUN12SC	FUN12SS	FUN12SUS	M60×2	73	80	13.5	11	7	3.0	74		15	190
FUN13SC	FUN13SS	FUN13SUS	M65×2	79	85	15.0	12	7	3.0	79	16	235	
FUN14SC	FUN14SS	FUN14SUS	M70×2	85	92	15.0	12	8	3.5	85	16	265	
FUN15SC	FUN15SS	FUN15SUS	M75×2	90	98	15.8 ±0.5	13	8	3.5	91	17	320	
FUN16SC	FUN16SS	FUN16SUS	M80×2	95	105	18.6	15	8	3.5	98	19	430	
FUN17SC	FUN17SS	FUN17SUS	M85×2	102	110	19.2	16	8	3.5	103	20	495	
FUN18SC	FUN18SS	FUN18SUS	M90×2	108	120	20.3	16	10	4	112	20	630	
FUN19SC	FUN19SS	FUN19SUS	M95×2	113	125	21.3 ±1.5	17	10	4	117	21	725	
FUN20SC	FUN20SS	FUN20SUS	M100×2	120	130	22.3	18	10	4	122	22	770	
FUN21SC	—	—	M105×2	126	140	22.3	18	12	5	130	22	904	
FUN22SC	—	—	M110×2	133	145	23.3	19	12	5	135	23	954	
FUN23SC	—	—	M115×2	137	150	23.3	19	12	5	140	23	1030	
FUN24SC	—	—	M120×2	138	155	24.3	20	12	5	145	24	1080	
FUN25SC	—	—	M125×2	148	160	25.4	21	12	5	150	25	1170	
FUN26SC	—	—	M130×2	149	165	25.4	21	12	5	155	25	1250	
FUN27SC	—	—	M135×2	160	175	26.6	22	14	6	163	26	1586	
FUN28SC	—	—	M140×2	160	180	26.6 ±2.0	22	14	6	168	26	1748	
FUN29SC	—	—	M145×2	171	190	28.6	24	14	6	178	28	2000	
FUN30SC	—	—	M150×2	171	195	28.3	24	14	6	183	28	2050	

* Specify Part No. when placing an order. * Consult us if left handed, special shape or surface treatment is needed. * Materials include equivalent of each materials. * Dimension may change for improvement. * ℓmin = m + 2.0P

Install Procedure for FINE U-NUT

step 1



Apply lubricant after checking that the tip of the thread portion of the shaft has a chamfer that is equivalent to the distance of 1 pitch. When the shaft has low hardness, use lubricant with especially high lubricating properties.



step 2



Manually screw the nut on until the Friction Ring touches the tip of the thread portion of the shaft.

* The nut cannot be installed from the Friction Ring side.



step 3



Use FINE U-NUT TOOL SET.

* High-speed rotation impact wrenches cannot be used.

step 4



Press down on the axis portion of the ratchet handle and tighten by lightly turning the ratchet.



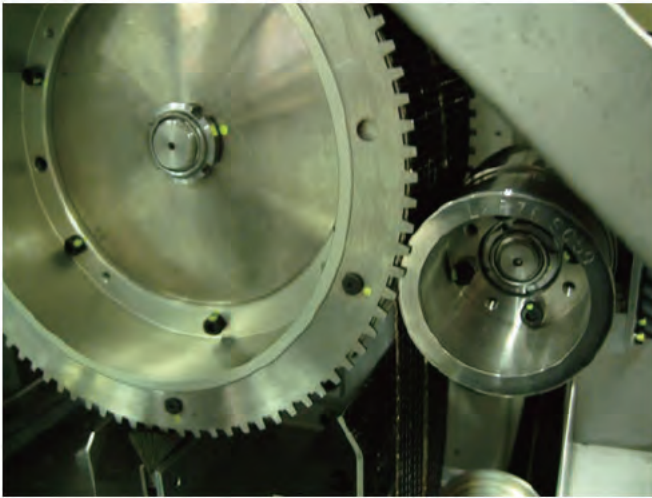
step 5



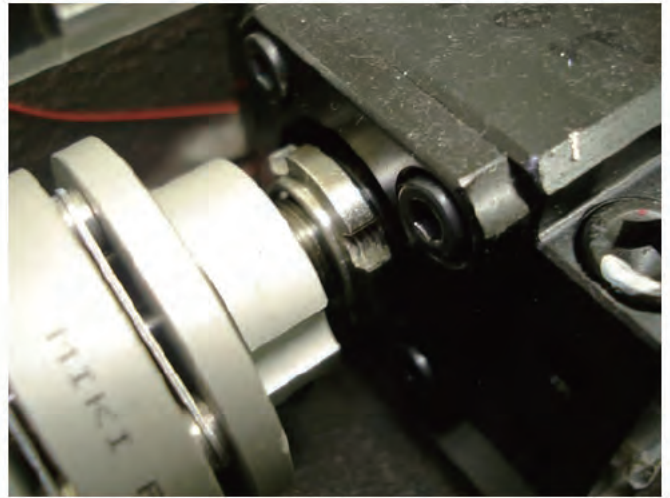
Confirming the Friction Ring has contacted the shaft thread or the inner ring of bearing and the seat surface of nut has contacted.



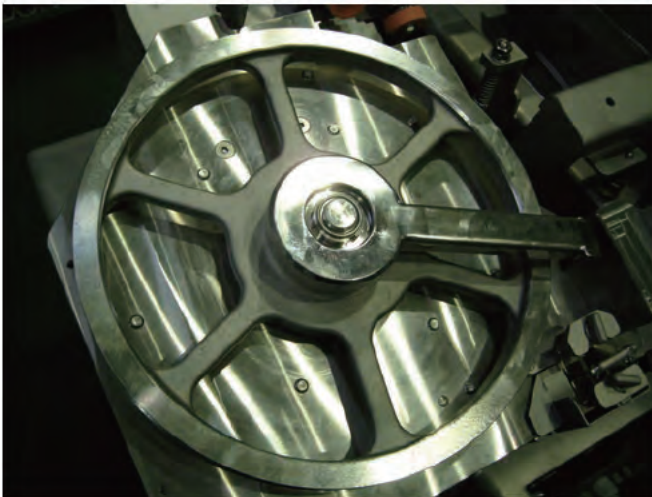
* Using a hook wrench is also OK.



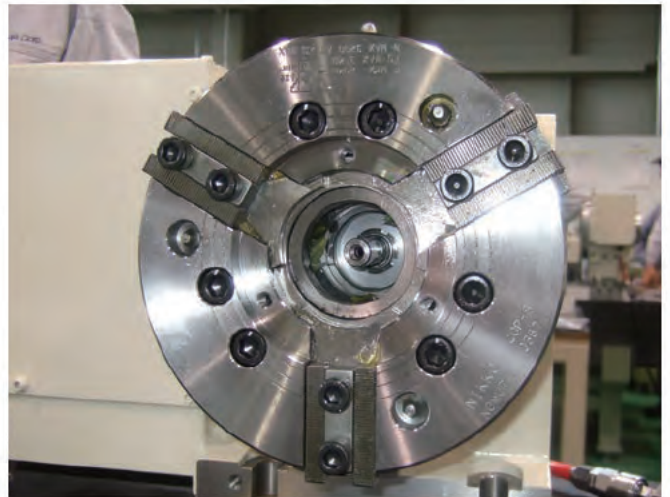
Semiconductor manufacturing equipment



Ball Screw



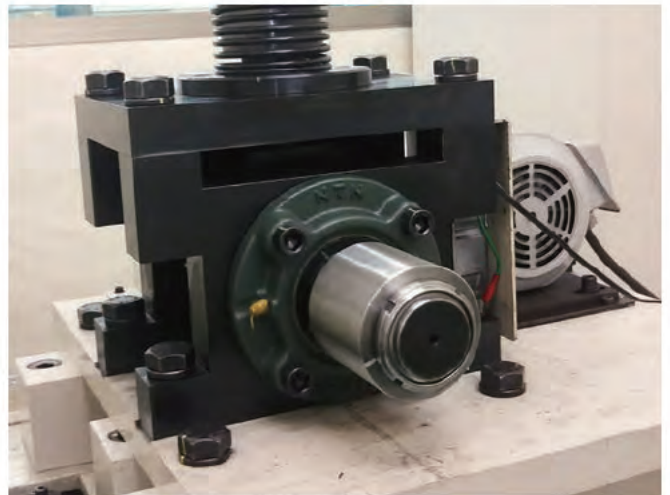
Food machine



NC rotary table



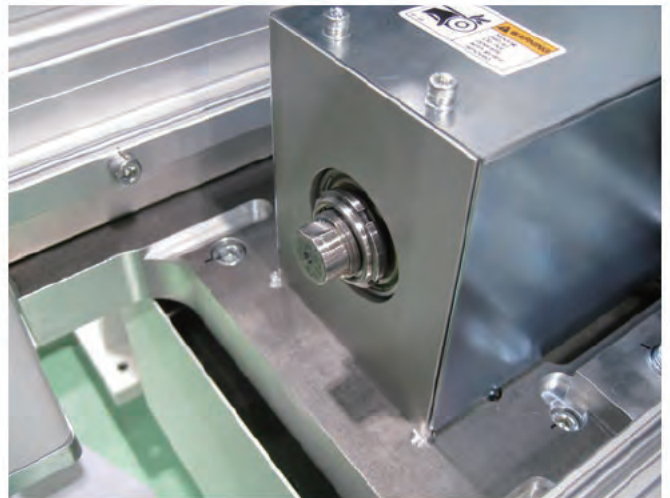
Pump



NAS type high speed screw loosening tester



Spindle



Parts feeder



Cold pressing machine



X-ray imaging equipment



Drill machine



Automotive welding robot

TWIN F U-NUT®

Prevailing-Torque Type Precision Locknut

The first in the industry, prevailing-torque type precision locknut.

The FINE U-NUT locking function is strengthened by two Friction Rings.

It has high accuracy of bearing surface runout by processing the thread and bearing surface at the same time.

“TWIN FU-NUT” has high accuracy of bearing surface runout and locking performance and help you to maintain the accurate bearing rotation.



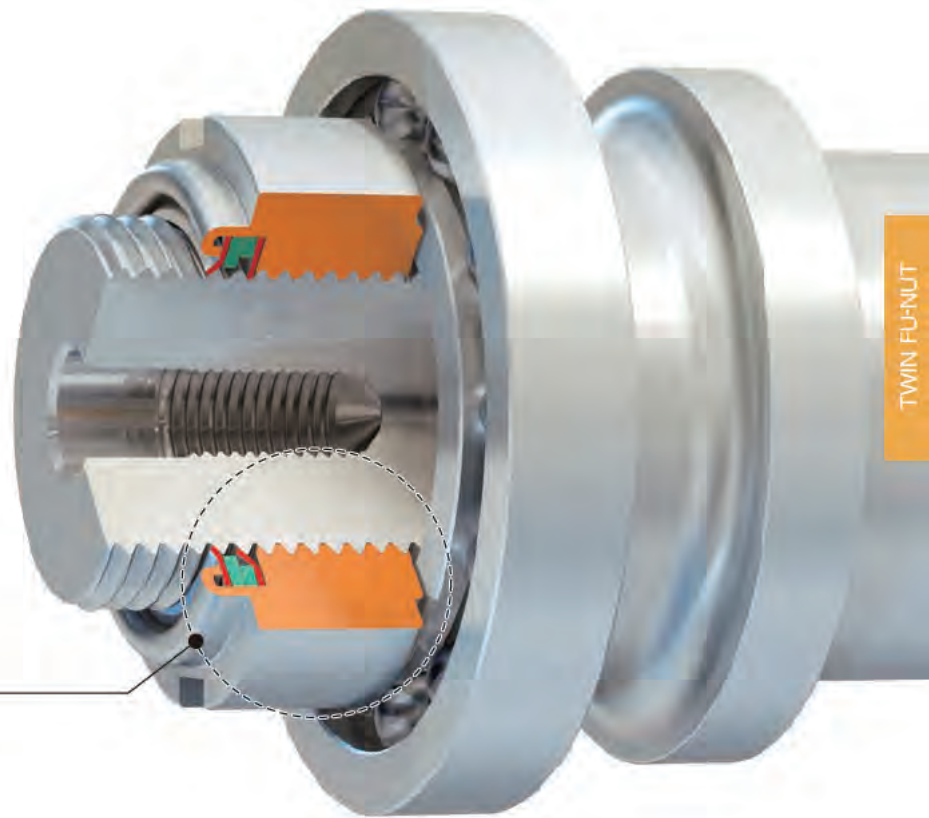
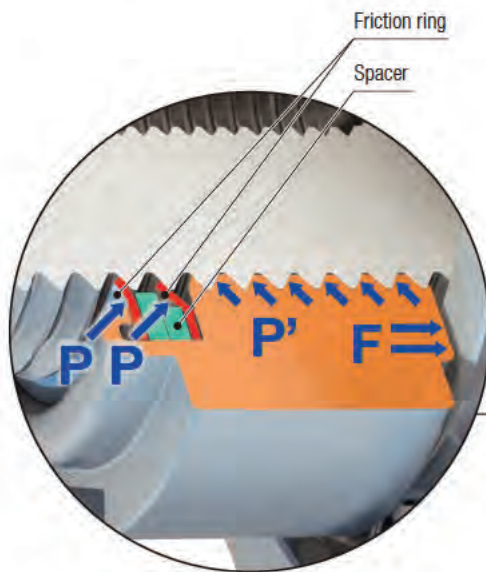
Features

- High-locking performance** It's a prevailing-torque type precision locknut.
- Improve functionability** Locking function is stronger than "FINE U-NUT".
- Easy to use** Tightening is very easy and simple.
- Reusability** Reuse is possible.
(Please refer to the chart and table on the right side)
- High accuracy of thread** Thread accuracy is in ISO4H.
- High accuracy of runout** It has high accuracy of bearing surface runout 1/1000 (mm).



Structure and Function

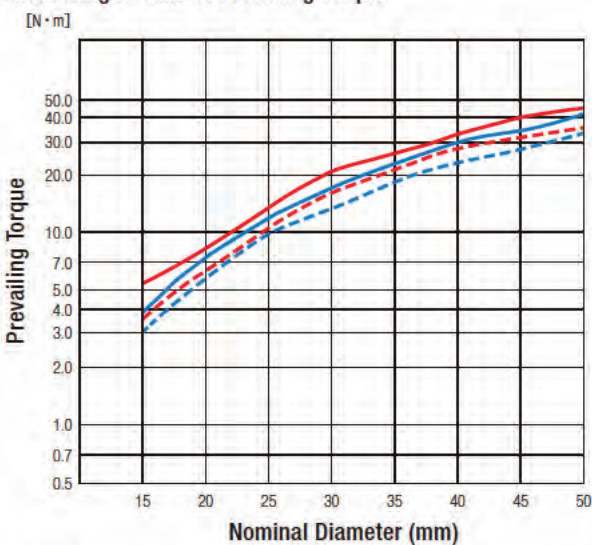
As shown in the figure, the two Friction Rings and a spacer that are secured to the top face of the nut. These two Friction Rings are positioned so that the stress (P) produced by each of spring effect act evenly and symmetrically against the shaft centre, and a structure, and mechanism in which bearings can be fastened with an even surface load (F) is achieved.



Prevailing Torque and Reusability

Prevailing Torque is a frictional torque when Friction Ring touches the shaft screw threads.

Measuring Results of Prevailing Torque



— Maximum Installation Torque : 1 cycle — Minimum Removal Torque : 1 cycle
- - - Maximum Installation Torque : 5 cycles - - - Minimum Removal Torque : 5 cycles

* See the table on the right for prevailing torque values after used for 5 cycles.

Example

[N · m]			
TFJ04SC M20×1			
Installation Torque (Max.)		Removal Torque (Min.)	
1 cycle	5 cycles	1 cycle	5 cycles
8.5	6.5	7.5	6.0

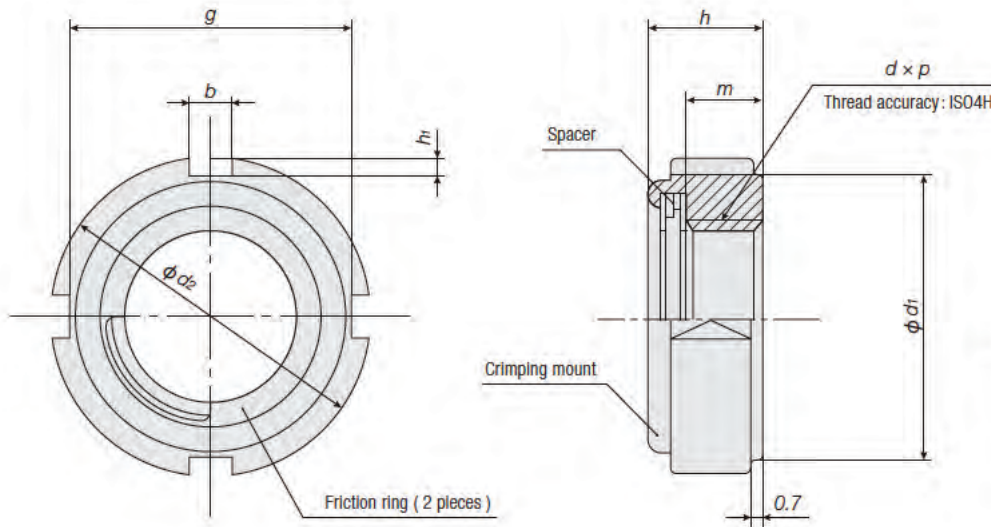
* According to our test results

Even after using 5 cycles, the reduction of prevailing torque value is slight, so you can reuse it.

[Test Conditions]

Bolt material: SCM435®
 Thread Accuracy: ISO 4h
 Surface treatment: Plain (Nut / Bolt)
 Lubrication: Penetrating lubricant

TWIN FU-NUT Dimension Table



Material
 Nut body : S45C (Heat Treated)
 Friction ring : SUS301
 Spacer : SUS301
 Surface treatment : Phosphate conversion coating

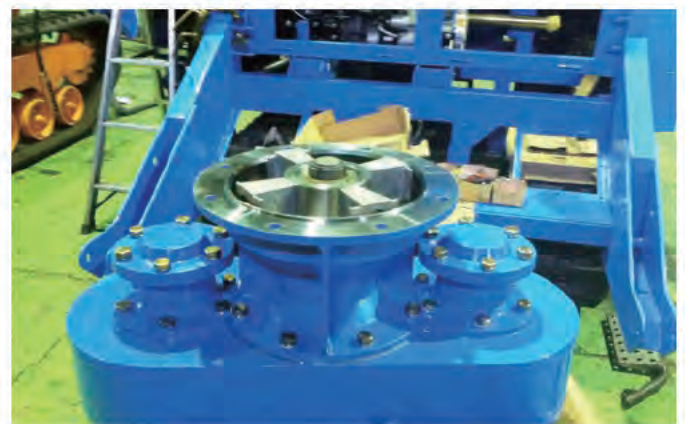
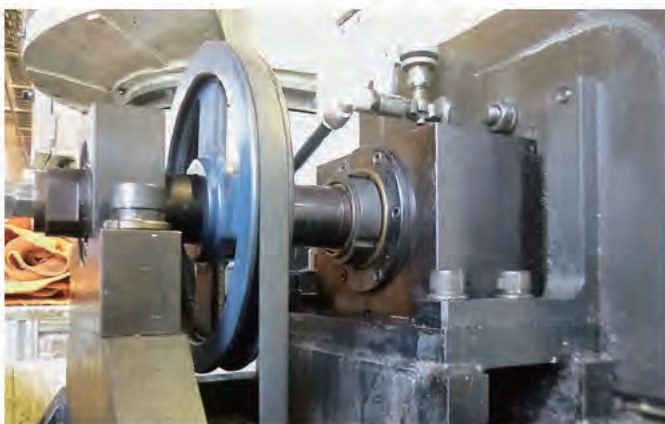
* Simultaneous processing of the thread and the bearing surface

Thread accuracy: ISO4H Unit: mm

Part No.	Designation of Thread d x p	ϕd_1		ϕd_2		h		m	b	h_1		g	Thread accuracy length ℓ min	Unit Weight (g)	Allowable axial dead load (kN)	
TFU02SC	M15x1	21.0	0 -0.3	25	0 -0.5	9.9	± 0.5	7	4	± 0.2	1.8	21.4	0 -0.5	10.5	19	34.1
TFU03SC	M17x1	23.5		28		10.1		7	4		2.0	24		10.5	24	38.6
TFU04SC	M20x1	27		32		12.3		9	4		2.0	28		12.5	38	59.4
TFU05SC	M25x1.5	33		38		14.2		10	5		2.0	34		15.3	59	80.8
TFU06SC	M30x1.5	40		45		14.3		10	5		2.0	41		15.3	82	97.0
TFU07SC	M35x1.5	47		52		16.5		12	5		2.0	48		17.3	125	137.8
TFU08SC	M40x1.5	52		58		17.6		13	6		2.5	53		18.3	150	171.4
TFU09SC	M45x1.5	59		65		19.7		15	6		2.5	60		20.3	210	224.5
TFU10SC	M50x1.5	64		70		20.8		16	6		2.5	65		21.3	255	266.8

* Specify Part No. when placing an order.

TWIN FU-NUT Typical Application Examples



Sugar cane harvester



Automatic processing machine

Install Procedure for TWIN FU-NUT

step 1



Position a bearing on the shaft. Apply lubricant after checking that the tip of the thread portion of the shaft has a chamfer that is equivalent to the distance of 1 pitch.

step 2



Manually screw the nut on until the Friction Ring touches the tip of the threaded portion of the shaft.

* The nut cannot be installed from the Friction Ring side.



step 3



Confirming Friction Ring has contacted the shaft thread.

step 4



Use "tightening tool made especially for FINE U-NUT".

* Hook wrenches are also available.

step 5



Press down on the axis portion of the ratchet handle and tighten by lightly turning the ratchet.

step 6



Check that bearing inner ring and TWIN FU-NUT bearing surface are closely adhered to each other and check that two full shaft threads protrude beyond the Friction Ring at the top of the nut.

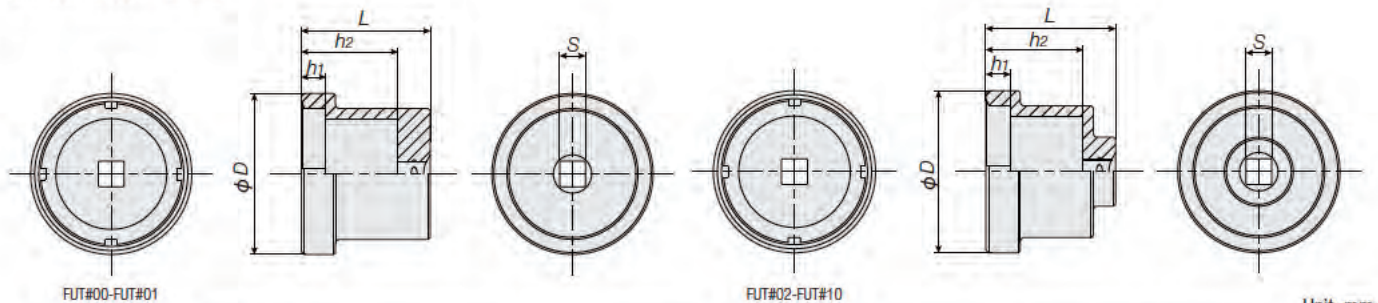
FINE U-NUT® TOOL SET

FINE U-NUT TOOL SET 00-10

FINE U-NUT / M10-M50 Tightening Tool Set



Dimension Table



Ratchet Handle			
Part No.	Total Length	Socket Size	Maximum Torque
FUTR-3/8	225mm	9.52 (3/8")	176N · m
FUTR-1/2	390mm	12.70 (1/2")	490N · m

Extension bar			
Part No.	Total Length	Socket Size	Maximum Torque
FUTE-3/8	75mm	9.52 (3/8")	137N · m
FUTE-1/2	150mm	12.70 (1/2")	382N · m

Socket Part No.	FINE U-NUT Applicable Size	ϕD	L	h_1	h_2	S
FUT#00	M10×0.75	23.0	36.0	4.4	24.0	9.52
FUT#01	M12×1.0	27.0	37.0	4.6	25.0	
FUT#02	M15×1.0	31.0	38.0	5.7	26.0	
FUT#03	M17×1.0	34.0	39.0	5.6	27.0	
FUT#04	M20×1.0	38.5	40.0	6.9	28.0	12.70
FUT#05	M25×1.5	45.5	46.5	8.1	30.5	
FUT#06	M30×1.5	53.0	50.0		34.0	
FUT#07	M35×1.5	60.5	53.5	9.2	37.5	
FUT#08	M40×1.5	67.0	57.0	10.2	41.0	
FUT#09	M45×1.5	74.5	60.5	11.2	44.5	
FUT#10	M50×1.5	80.0	64.0	12.2	48.0	

Unit: mm

Set Contents (Part No. : FUN TOOL SET00-10)

- Socket (FUT#00-FUT#04) : 5pieces (entry angle 9.52mm)
- Socket (FUT#05-FUT#10) : 6pieces (entry angle 12.7mm)
- Ratchet Handle (3/8") : 1piece (9.52 × 225mm)
- Ratchet Handle (1/2") : 1piece (12.7 × 390mm)
- Extension Bar (3/8") : 1piece (9.52 × 75mm)
- Extension Bar (1/2") : 1piece (12.7 × 150mm)
- Steel Case : 1box (400 × 150 × 70mm)

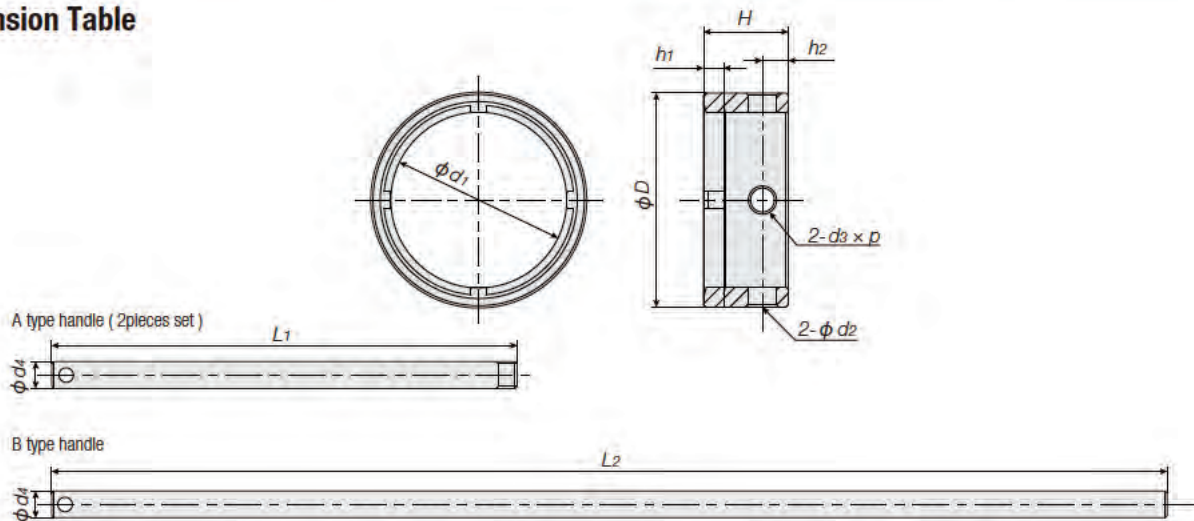
* Order is available for each size * Total Weight: 5.72kgs * Specify Part No. when placing an order.

FINE U-NUT / Tightening Socket Handle 11-20
FINE U-NUT / M55-M100 Tightening Tool Items



TOOL SET

Dimension Table



Unit: mm

Socket Part No.	FINE U-NUT Applicable Size	Socket							A type handle (Part No.)	B type handle (Part No.)
		ϕD	ϕd_1	H	h_1	h_2	ϕd_2	$d_3 \times p$	$\phi d_4 \times L_1$	$\phi d_4 \times L_2$
FUT#11	M55×2	85.5	69.0	36	8.5	11	12	M12×1.75	$\phi 12 \times 200$ (FUTA-12)	$\phi 12 \times 500$ (FUTB-12)
FUT#12	M60×2	91.0	74.0							
FUT#13	M65×2	96.5	79.0	41	9.5					
FUT#14	M70×2	104.0	85.0							
FUT#15	M75×2	110.5	90.5	42	10.5	13	14	M14×2.0	$\phi 14 \times 250$ (FUTA-14)	$\phi 14 \times 650$ (FUTB-14)
FUT#16	M80×2	118.0	97.5	44	12.5					
FUT#17	M85×2	123.5	102.5	46	13.0					
FUT#18	M90×2	134.0	111.0	50						
FUT#19	M95×2	139.5	116.0	51	14.0	15	16	M16×2.0	$\phi 16 \times 300$ (FUTA-16)	$\phi 16 \times 750$ (FUTB-16)
FUT#20	M100×2	145.0	121.0	52	15.0					

* When placing an order please specify Part No.

Precaution for Use

FINE U-NUT

This product is used for especially safety position. Observe strictly the following items when using.



- Be sure to clean the shaft threads and FINE U-NUT before installing.



- Thread accuracy ISO6h for the shaft thread is recommended.
- The thread portion tip should have a chamfer equivalent to the distance of 1 pitch.
- The thread and chamfer portion should be free from burrs.



- Use lubricant where problems such as scorching or seizing may occur during installation and remove of a nut.



- For full locking, ensure that two full shaft protrude beyond the Friction Ring at the top of the FINE U-NUT.



- Face runout values listed in the size table are valid only for when tightening is performed to at least 2 times the prevailing torque.
- * Please contact us for a consultation on the prevailing torque data.



- FINE U-NUT cannot be used if the shaft thread is machined with a keyway or other processing.
- * Please contact us if you are using a shaft with a keyway.



- The nut cannot be installed from the Friction Ring side.



- Stop using the nut if excessive deformation or another fault is found on the Friction Ring and the clamp.
- Impact wrench cannot be used.



- If use under severe conditions or with low axial tension, consult us.

TWIN FU-NUT

This product is used for especially safety position. Observe strictly the following items when using.



- Be sure to clean the shaft threads and TWIN FU-NUT before installing.



- Thread accuracy ISO4h for the shaft thread is recommended.
- The thread portion tip should have a chamfer equivalent to the distance of 1 pitch.
- The thread and chamfer portion should be free from burrs.



- Use lubricant where problems such as scorching or seizing may occur during installation and remove of a nut.



- For full locking, ensure that two full shaft protrude beyond the Friction Ring at the top of the TWIN FU-NUT.



- Face runout values listed in the size table are valid only for when tightening is performed to at least 1.2 times the prevailing torque.
- * Please contact us for a consultation on the prevailing torque data.



- TWIN FU-NUT cannot be used if the shaft thread is machined with a keyway or other processing.
- * Please contact us if you are using a shaft with a keyway.



- The nut cannot be installed from the Friction Ring side.



- Stop using the nut if excessive deformation or another fault is found on the Friction Ring and the clamp.
- Impact wrench cannot be used.



- If use under severe conditions or with low axial tension, consult us.

Support System to Customers

- Various certificates such as material certificates and test reports are available.
- Various environment-related certificates are available.
- Our testing machines make us answer to your technical questions immediately.
- CAD data is downloadable from our web-site.
- We arrange product briefing depending on requests.
- Specify Part No. when placing orders.
- Consult us when special item is needed or you need help for other technical questions.

overseas@fun.co.jp

Certification examples

Inspection result certificate showing technical drawings and a table of test results. The table includes columns for test items, standards, and results.

Test Item	Standard	Result	Remarks
1. Material	SAE J423	OK	
2. Dimension	SAE J423	OK	
3. Mechanical Property	SAE J423	OK	
4. Surface Quality	SAE J423	OK	
5. Chemical Composition	SAE J423	OK	

Inspection result

Material certificate for NIPPON STEEL. The certificate includes a grid of chemical composition data for various elements.

Element	Value	Unit
C	0.25	%
Mn	0.50	%
P	0.010	%
S	0.005	%
Si	0.030	%
Al	0.005	%
N	0.0010	%
As	0.00010	%
Se	0.00010	%
Ca	0.00010	%
Mg	0.00010	%
Cr	0.00010	%
Mo	0.00010	%
Cu	0.00010	%
Ni	0.00010	%
Sb	0.00010	%
Bi	0.00010	%
Sn	0.00010	%
Pb	0.00010	%
Fe	Balance	

Material certificate

RoHS Certificate of Compliance. The certificate includes a table of substance restrictions.

Substance	Maximum Allowed Value
Lead (Pb)	1000ppm
Cadmium (Cd)	100ppm
Mercury (Hg)	100ppm
Hexavalent Chromium (Cr(VI))	100ppm
Polybrominated Diphenyl Ether (PBDE)	1000ppm
Polybrominated Biphenyl (PBB)	1000ppm
Polybrominated Diphenyl Ether (PBDE)	1000ppm
Polybrominated Diphenyl Ether (PBDE)	1000ppm
Polybrominated Diphenyl Ether (PBDE)	1000ppm
Polybrominated Diphenyl Ether (PBDE)	1000ppm
Polybrominated Diphenyl Ether (PBDE)	1000ppm

RoHS certificate

The True Strengths of U-NUT Verified by a Variety of Testing

Testing and Measurement Equipments that Verifies Safety from Multiple Directions

NAS confirming high speed thread looseness testing machine

This unit is produced according to the NAS3350 (U.S. National Aerospace Standard) testing unit specification and is used for judgment and comparison of locking performance.



Threaded fastener tightening characteristics testing unit

This machine conforms to JIS B 1084 (Fasteners - Torque/clamp force testing), and is used for measuring characteristic values resulting from tightening.



Microscope

Capable of observations with magnifications up to 1000x. Compared with conventional projection instruments, this allows more detailed checks of shapes.



Amsler tensile testing unit

Used for the guaranteed load tests that are prescribed by JIS B 1052 (Mechanical properties of fasteners made of carbon steel and alloy steel).



Junker-type thread loosening tester

Used to verify the fastening force and vibration resistance of bolt nuts.



Promising a Safety and Security with Technology Capabilities

Numerous industries that enrich human lives.

In order for an industry to contribute to society, it is essential that to not only provide convenience, but also be trusted for safety.

Bolts and nuts - Functional parts that are at the heart of the industrial world.

Our mission is to achieve increases constantly in the safety of these parts and create an unshaken link between society and security.

Fuji Seimitsu provides the dependable safety and security that are the foundation of industry.

Technical Development

We utilize a range of test equipment in order to develop new products, improve our main products, and answer the technical questions of our customers.

We accurately identify wide-ranging needs and works to improve our technical level on a daily basis in order to achieve our corporate principle of proposing and sharing results that satisfied customer requirements.

Quality Control

The quality of all products is controlled according to JIS standards, ISO standards, and other public standards, as well as by strict quality control based on our own standards.

In addition to complete control of dimensions and shapes based on design drawings, we perform careful checks into details such as plating conditions and surface scratches. Quality control is the key to assuring the Fuji Seimitsu brand.

Production Control

All Fuji Seimitsu products are manufactured by our original specially-designed machines. Everything from this manufacturing equipment to the layout of facilities and equipment, line design, and the tools is designed and produced by our company.

This allows us to achieve a high level of manufacturing quality that other companies cannot match.

ISO 9001 Certified



Certificate No.	00064-1999-AQ-KOB-RvA/JAB
Certificate Scope	Design, Development, Manufacture and Sales of Prevailing Torque Type Nuts
Site Name	Main Office, Tokyo Branch, Fukuoka Office, Hiroshima Products Center Taiwan Fuji Seimitsu Co.,Ltd. P.T. FUJI SEIMITSU INDONESIA
Certifying Body	DNV GL Business Assurance
Qualifying Activity	RvA (Raad v oor Accreditatie) JAB (Japan Accreditation Board)
Initial Certification Date	3 December, 1999

ISO 14001 Certified



Certificate No.	02628-2012-AE-KOB-RvA/JAB
Certificate Scope	Design, Development, Manufacture and Sales of Prevailing Torque Type Nuts
Site Name	Main Office, Tokyo Branch, Fukuoka Office
Certifying Body	DNV GL Business Assurance
Qualifying Activity	RvA (Raad v oor Accreditatie) JAB (Japan Accreditation Board)
Initial Certification Date	20 November, 2012

NETIS



NETIS is an acronym for "New Technology Information System" and is a database for utilization of new technologies, which is operated by the Ministry of Land, Infrastructure, Transport and Tourism of Japan. This database makes it possible for anyone to view technical information over the internet.



Fuji Seimitsu developed and marketed FUJILOK U-NUT® patented locknut in 1962. FUJILOK U-NUT® prevailing torque type locknut brought about a major revolution in preventing loosening of bolts and nuts, and delivered a shock to many industries at that time. This marked the beginning of our company's history. More than 50 years have passed since our founding, and we have remained continually dedicated to creating products together with our customers, carrying out ceaseless technical innovations, and working to improve quality. As a result, we have earned the trust of our customers and users for providing safety and security.

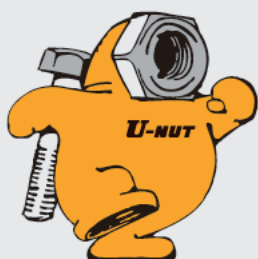
FUJILOK U-NUT, FINE U-NUT® brand will continue striving to meet customer expectations by providing trusted products, quality, technologies, and services that will contribute to the growth of industries not only in Japan but also in Southeast Asia and the world. As the top manufacturer of locknuts, we will remain dedicated to our "customer first" philosophy, and believe that our flexible systems which were developed from the customers' perspective will lead us to new possibilities.

In the future, we will continue to fulfill our corporate social responsibilities (CSR) and contribute to the advancement of society, and at the same time we will proceed with manufacturing to satisfy a greater number of customers under our corporate slogan, "Unshaken Quality to the Future". I hope for everyone's continued support and guidance in the future.

President Masataka Wada

Company Profile

Firm Name	Fuji Seimitsu Co., Ltd.
Foundation	In February 1962
Incorporation of the Company	In September 1970
Capital	59.52 million yen
Number of Employees	91
Business Items	FUJILOK U-NUT, GU-NUT, FINE U-NUT, TWIN FU-NUT, CLIP U-NUT, SU-NUT, BLU-NUT, FUJILOK U-NUT with WASHER, FUJI LOCK BOLT N etc.
URL	https://www.fun.co.jp
History	<p>1962 Feb. Founding of Fuji Seimitsu Manufacturing. Development of patented FUJILOK U-NUT locknut and start of sales.</p> <p>1970 Sep. Established Fuji Seimitsu Manufacturing Co., Ltd.</p> <p>1974 Apr. Licensing in accordance with Japanese National Railways standards.</p> <p>1976 Feb. The first President, Takeji Wada assumed the Chairman. Hiroyuki Wada assumed the President.</p> <p>1981 May Development of locknut for use with bearings, FINE U-NUT and start of sales.</p> <p>1984 Oct. Trademark registration of FINE U-NUT</p> <p>1989 Apr. Establishment of Taiwan Fuji Seimitsu Mfg. Co., Ltd.</p> <p>1999 Apr. Company name changed to Fuji Seimitsu Co., Ltd. Dec. Acquisition of ISO9000 certification</p> <p>2000 Dec. Establishment of PT. Fuji Seimitsu Indonesia.</p> <p>2012 Nov. Acquisition of ISO14001:2004 certification.</p> <p>2013 Nov. NETIS registration of FujiLok U-NUT.</p> <p>2014 Mar. Trademark registration of FujilokU-NUT</p> <p>2016 Apr. Hiroyuki Wada assumed the chairman. Masataka Wada assumed the president.</p>



ILLUSTRATED BY H.KUROGANE

Mascot character " GUGU "

"GUGU" is unique and synonymous with the life of the FUJILOK U-NUT product and expresses the looks strolling around freely in the universe. As a comprehensive manufacturer of locknuts, we are progressing the tradition of locknut superiority and we establish a corporate image to further leap with "GUGU".

Overseas Locations



P.T. FUJI SEIMITSU INDONESIA

Jalan Industri Utama Blok RR-10, Cikarang Industrial Estate Tahap II -Bekasi 17550 Indonesia
TEL. 62-21-893-7340 FAX. 62-21-893-7305

TAIWAN FUJI SEIMITSU MFG. Co., Ltd.

No.2 Chung Hsing Road, Min Hsiung Industrial Zone,
Chia-Yi Hsien, Taiwan
TEL. 886-5-221-3021 FAX. 886-5-221-3020

“FINE U-NUT” Brand will be known worldwide.

FINE U-NUT which has immensely trusted in Japanese manufacturers, government offices and others. Fuji seimitsu will be pioneering overseas bases in order to further meet the changing needs of the future.

Since acquisition the patent in 1981, FINE U-NUT has been gain acclaimed for industries around the world. And we supply products worldwide from group companies that realize safe and reliable quality.



Hiroshima Products Center

88-50 Oji, Shinjo-cho, Shobara, Hiroshima 727-0004 Japan
TEL. 0824-72-8340 FAX. 0824-72-8341

Fukuoka Sales Office

3rd Hakata Kaisei Building 1002, 1-3-6 Hakata Eki Minami,
Hakata-ku, Fukuoka 812-0016 Japan
TEL. 092-411-1551 FAX. 092-411-1554

Domestic Locations



FUJI SEIMITSU Co., Ltd.
Head Office

3-14-15, Tokura, Toyonaka, Osaka 561-0845 Japan
TEL. 06-6862-3112 FAX. 06-6862-9880



First factory



Second factory

TOYAMA SEIMITSU Co., Ltd.

33, Ippongi, Toyama City, Toyama 930-0904 Japan
TEL. 076-451-1550 FAX. 076-451-5354

Tokyo Branch

5-6-21, Kameido, Koto-ku, Tokyo 136-0071 Japan
UIW9BLDG.301
TEL. 03-5626-1061 FAX. 03-5626-1063



Second factory

FineTex Co., Ltd.

6-11-4, Tano, Amagasaki, Hyogo, 661-0951 Japan
TEL. 06-4960-1720 FAX. 06-4960-1730

Second factory

8-33, Morimoto, Itami-shi, Hyogo, 664-0842, Japan



FINE U-NUT are registered trademarks of Fuji Seimitsu Co., Ltd.



Unshaken quality to the future
Manufacturer of Lock Nuts

株式会社 **富士精密**

Fuji Seimitsu Co., Ltd.

Head Office 3-14-15, Tokura, Toyonaka, Osaka 561-0845 Japan
TEL. 06-6862-3112 FAX. 06-6862-9880

Tokyo Branch 5-6-21, Kameido, Koto-ku, Tokyo 136-0071 Japan
TEL. 03-5626-1061 FAX. 03-5626-1063

Fukuoka Sales Office 3rd Hakata Kaisei Building 1002, 1-3-6 Hakata Eki Minami,
Hakata-ku, Fukuoka 812-0016 Japan
TEL. 092-411-1551 FAX. 092-411-1554

HP: <https://www.fun.co.jp>



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