

COUPLING
LOCKING ELEMENT
LOCKNUT
GRINDING LOCKNUT



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DURI PRODUCT Line up contents

COUPLING ROHS



Contents >>>		DRB	024	DJC		DRS		DRFC
	015	DRBS	026	DJCS	036	DRW	052	DRACL
	016	DRB-SUS	027	DRJT	036	DRA	054	DRJCL
	017	DRBS-SUS	030	DRG	042	DHDA-A	056	DRSS
	020	DOH	030	DRG-C	044	DHDA-B	057	DRSD
	020	DOH-S	030	DRG-W	046	DHDA-T		
	020	DOH-SS	031	DRGL-C				
	021	DOH-C	031	DRL-C				
	021	DOHS-C	031	DRL-V				
	021	DOH-SC	032	DRN				
			033	DRJ, DRP				
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092	KZM	100	KSNT
093	KZMV	101	ZMVT
094	KAN	102	DCN, DCNL
096	KSN	104	AN
097	KSNA	105	DN
098	KZMT		
099	KZMF		



LOCKING ELEMENT ROHS





GRINDING LOCKNUT ROHS



110 ZMG 111 ZMVG 112 ZMFG	116 UZMG 117 UZMVG 118 UZMFG 119 UKANG	122 UBGN-A 123 UBGN-B 125 UBGN-C 126 UBGN-D 127 UBGN-E

* The contests in the Catalogue will be changed without separate notice in advance in accordance with product improvement polices.



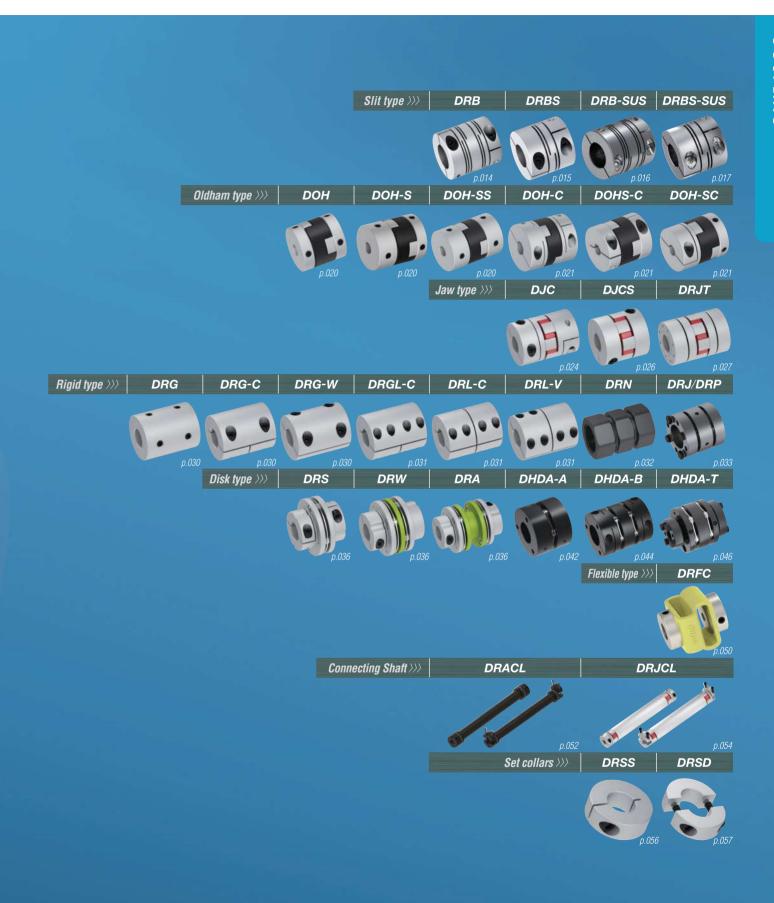
COUPLING

Durimitec's coupling is function to connect the axis and axis. Connecting the shaft to the shaft is not an easy task, so the coupling can play a role in determining the application and selecting the coupling.

DURIMITEC has many kinds of couplings, various ways to fix the shaft, and it is thoroughly managed through excellent technology and strict quality inspection.

In addition, it offers various services such as material change, so it is optimized to select the coupling suitable for the application.





COUPLING Techincal data

COUPLING Technical data

Features

COUPLING

The coupling is used to transfer some power by connecting the drive shaft with the driven

It consists of corrosion-resistant aluminum alloy(Duralumin) with light weight and high stiffness, so a revolution system with a small inertia can be driven..

It includes DRB, DRBS, DOH, DOHS, DJC, DJCS, DRJT, DRG, DRGL and etc. Other than DRN, DRJ and DRP.

How to fix the axis

The coupling has a choice of ways to lock the axle. You can choose the best type for your application and environment.

Based on which type can be optimized, different types or the diameter can be chosen depending on the shaft where the input and output are located.

All the type can supply key way except tapper type.

Set screw type (figure1) One bolt side clamp type (figure2)





Two bolt side clamp type (figure3) Taper type (figure4)





How to select the coupling

Verify usage

There are features and advantages for each type of coupling, so please select it according to

Type of motor: Servo Motor, Stepping Motor, General wide use Motor, Encoder For special conditions and special environment : Clean room, Anti-corrosive, High temperature

Select Size : Torque check

The following functional expression is required in having the coupling selected.

- T(torque) [N·m]=9550×P(power)[kW] / Rev. N[min-1]

Selection coefficient K by a fluctuation in the power

In case there is a fluctuation in the power transmitted, according to its type, the coupling must be selected with a larger capacity of transfer torque than the value by multiplied by

- No fluctuation to Less fluctuation: K=1.0~1.5
- Intermediate fluctuation to More fluctuation K=2.0~2.3

COUPLING Technical data

How to select the coupling

Other requirements

Power conversion efficiency, transmission efficiency η

More power is required on the supplied side according to the efficiency when the power is recognized on the consumed side.

The selected power contributes to the choice of the coupling with a larger capacity of transfer torque than the power on the supplied side.

For example, in case of the conventional gear driving, larger power can be required due to the low efficiency in transmission.

- Power Output(PO) [kW] = Coefficient K x Power Consumption (PS) [kW] / Efficiency η Efficiency η : η < 1.0

The coupling can be generally chosen as torque value specified in the common transfer

However, when the servo motor generates much larger torque values to accelerate or decelerate during starting or stopping, the coupling can be selected as a maximum transfer torque larger than the maximum startup torque multiplied by 1.5 on the moter.

- The maximum transfer torque on the coupling > The maximum startup torque on the servo
- X The coupling can be selected as a larger value between the common transfer torque and the maximum transferring torque given.

How to select the Inner Diameter

Check the size of the shaft if it is within the standard inner diameter range. For non-standard inner diameter, please contact the office.

Coupling should be selected in consideration of various other conditions.

It is recommended that the rev. be applied lower than the maximum rev. as described in the table showing the model No. of each page on the catalog.

Adjustment of alignment

The coupling permits misalignment, but if it exceeds the allowable value, vibration and noise will occur and the lifetime will be reduced. For eccentricity, declination and endplay(axial variation), in the catalog

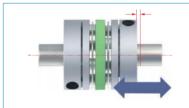
XCaution, especially when used in areas requiring high speed rotation.



2-axis eccentricity - Less than the maximum



2-declination - Less than the maximum allowable



axial fluctuations - Less than the maximum allowable fluctuations must be applied

X Be sure that there is any coupling type which will not meet above requirements.

COUPLING Techincal data

COUPLING Technical data

Other requirements

Precautions when using

Torsional rigidity(the spring constant)

No. of frequency division for a feed screw can be calculated with the rigidity both on the coupling and the shaft.

Rigid kt coupled with the axis on a feed screw connected in Series.

- 1/kt = 1/ks+1/kc ks : Rigidity on the axis of a screw[N⋅m/rad]
 - kc : Rigidity on the coupling[N·m/rad]
 - Ji: Inertia on the input axis[N·m²]
 - Jo : Inertia on the axial force[N·m²]

No. of frequency division (Fd) can be calculated from this kt and, Ji and Jo on the input and output axes as the following steps.

- Fd = $0.5 \cdot (1 / \pi) \cdot \{9.8 \cdot kt \cdot (1 / Ji + 1 / Jo)\}^{-2}$

Moment of Inertia

Moment of Inertia, a kind of inertia of revolving body, indicates the levels of difficulty when a moving torque(T) is loaded

On the revolving body.

Most of the Duri couplings are designed with a light-weighted compact body, so a value mentioned can be ignored in the process of power transmission, but be sure that values must be checked as described in the table showing each type on the catalog when calculating startup torques for multiple usage or the entire precise vibrations.

If the coupling is subjected to a strong impact from the outside, the assembly accuracy can not be maintained and there is a possibility of damage during use.

Attach

Check that the Tightening screw and set screw are loosened and remove foreign matter and oil on the inner surface of the shaft and coupling. (Wipe out the oil using a degreasing agent and use it.)

When inserting the coupling into the shaft, the length at which the shaft is inserted into the coupling is up to the length of the hub. If it is short or long, it may cause slip and interference. In particular, be careful when attaching the coupling to the motor shaft and then inserting the coupling on the opposite shaft, which may inadvertently apply excessive compressive force. Make sure that the coupling smoothly moves in the axial and rotational directions with the tightening screw or set screw loosened. If it does not move smoothly, adjust the centering of the two axes again. This method is recommended as a simple confirmation method of the left and right concentricity. However, if this is not possible, check the degree of assembly by controlling the machine parts quality and other methods.

Check the action of force such as compression or tension in the axial direction and tighten the tightening screw or set screw.

When tightening the tightening screw or set screw, tighten it within the specified torque range with a calibrated torque wrench.

Disassemble

Make sure that no torque and axial loads are applied to the coupling. Torque may be applied to the coupling, especially when the safety brake device is in operation. Please check before disassemble it.

Please use a Homepage is the latest Data and CAD

Loosen all tightening screw or set screws.

The fastening to the shaft will not be released until it is fully loosened.

COUPLING Technical data

For key way machining

key way machining is available upon request. However, basically, it is designed to transmit torque by frictional engagement by clamping mechanism. Therefore, do not exceed the allowable torque of coupling.

Also, please note the following points before applying them.

The key mush be used less than or equal to the key way width. If the key is pressed in, it may be damaged during attachment or operation.

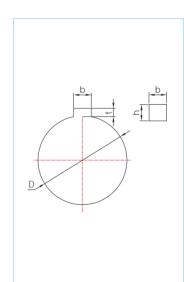
Please contact the office if you need the position of the key way

When applying a JS9 tolerance, it is possible to compress the coupling when attaching it to the shaft by means of a tight fit. Be careful not to apply compression.

When applying a JS9 tolerance, it is possible to compress the coupling when attaching it to the shaft by means of a tight fit. Be careful not to apply compression.

If a fixing screw is added on the key way, the clamp function will be lowered, and there is a danger that the fixing screw will loosen in the torque range to be used and in the reverse operation. Also, it is not recommended because the structure of the hub may deteriorate in strength and the coupling may be damaged.

Key way size



Shaft		Key	Key way							
diameter	b (1	mm)	t (r	t (mm)						
(φ)D	Reference standard	Tolerance	Reference standard	Tolerance	b×h					
6∼ 8	2	±0.0125	1.0		2× 2					
$8\!\sim\!10$	3	10.0123	1.4	+0.1	3× 3					
10 \sim 12	4	±0.0150	1.8	0	4× 4					
12 ~ 17	5		2.3	U	5× 5					
17 \sim 22	6		2.8		6× 6					
22 \sim 30	8	±0.0180			8× 7					
$30{\sim}38$	10	±0.0100	3.3		10× 8					
$38{\sim}44$	12			+0.2	12× 8					
44 \sim 50	14	+0.0215	3.8	0	14× 9					
$50{\sim}58$	16	±0.0215	4.3		16×10					
$58\sim65$	18		4.4		18×11					

Offering Options

Many of the DURI couplings are custom-built and offer a wide range of optional services to provide a wide range of specifications.

- Key way processing
- Additional machining of inner diameter
- Bolt material change
- Body material change
- Specification of total length
- Hub section tap processing
- Change both hub combinations
- Combination of options
- Special orders can be made



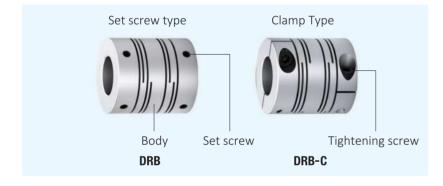
www.durimitec.com/eng



- Completely integrated coupling with slit type and Zero backlash.
- Forward and reverse are the same features and torsional rigidity is outstanding.
- Outstanding Oil-resistance and Anti-chemical.
- The plate spring formed with slit absorbs Eccentricity, declination and end play.
- using aluminum alloy with high stiffness(Duralumin).

Structure (fastening type) and material

DRB Standard



DRBS-Compact type



Please use a Homepage is the latest Data and CAD

- Body : Aluminum alloy with high stiffness
- Body Surface treatment : Alumite process
- Set screw : SCM435
- Tightening Screw: SCM435

Structure (fastening type) and material

DRB-SUS Standard

Applicable to special environments where water resistance and corrosion resistance are required.



Clamp Type

DRB-C-SUS

DRBS-SUS Compact type

Applicable to special environments where water resistance and corrosion resistance are required.

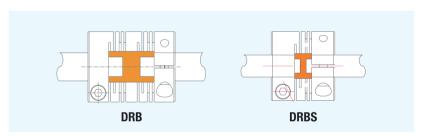


Structure (fastening type) and material

Relief Type

It is easy to assemble with a structure that is not affected by shaft by processing the inside wide.

- Body : Stainless steel - Set screw : Stainless steel - Tightening screw : Stainless steel



Usage

- Servo Motor
- Stepping Motor
- General wide use Motor
- Encoder
- Others

DRB	25	С	8	10
Product NO	Size	Fastening type	Inner diameter : D1	Inner diameter : D2

DRB	25	С	SUS	8	10
Product NO	Size	Fastening type	Material	Inner diameter : D1	Inner diameter : D2

Set screw type : DRBS

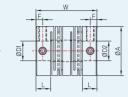
Set screw type : DRB

Clamp Type : DRB-C

COUPLING















Outer diameter φ39~φ60

		Dimensi	on(mm)		Tighteni	ng Screw	Rated.	Max.	Max.	Moment	Torsional	Angle	Paralle	End	Mass
Product NO.		Difficilist	O (,		Size	Torque	Torque	Torque	RPM	of inertia	Stiffness	Aligie	rarane	play	iviass
	Α	L	W	F	M	N·m	N·m	N · m	min ⁻¹	kg · m ²	N · m/rad	0	mm	$\pm\mathrm{mm}$	g
DRB-8	8	3.5	14	1.7	M2	0.3	0.1	0.2	78,000	1.2 × 10 ⁻⁸	25	2.5	0.10	0.2	1.4
DRB-12	12	4.5	19	1.9	M2.5	0.5	0.4	0.8	52,000	8.8×10^{-8}	45	2.5	0.10	0.3	3.7
DRB-16	16	6.1	22	2.3	M3	0.7	0.5	1	39,000	2.8×10^{-7}	80	2.5	0.15	0.4	8
DRB-19	19	6.1	23	2.8	M3	0.7	1	2	31,000	6.5×10^{-7}	170	2.5	0.15	0.4	11
DRB-22	22	7.2	26	3.25	M4	1.7	1.5	3	27,000	1.4×10^{-6}	220	2.5	0.15	0.4	18
DRB-25	25	7.4	31	3.4	M4	1.7	2	4	25,000	3.4×10^{-6}	380	2.5	0.2	0.5	27
DRB-32	32	9.4	39	4.7	M5	4	4	8	19,000	9.4×10^{-6}	500	2.5	0.25	0.5	55
DRB-39	39	16	56	6.8	M5	4	8	16	15,000	2.8×10^{-5}	700	2.5	0.25	0.5	130
DRB-49	49	20	70	9.5	M6	7	16	32	12,000	1.0×10^{-4}	1,800	2.5	0.25	0.5	280
DRB-60	60	19	88	9	M8	15	32	64	10,000	3.0×10^{-4}	3,100	2.5	0.3	0.5	480
DRB-12C	12	5	19	2.5	M2	0.5	0.4	8.0	52,000	7.8×10^{-8}	45	2.5	0.1	0.3	4
DRB-16C	16	6.1	22	3.05	M2.5	1	0.5	1	39,000	3.1×10^{-7}	80	2.5	0.15	0.4	8.5
DRB-19C	19	6.1	23	3.05	M2.5	1	1	2	31,000	6.5×10^{-7}	170	2.5	0.15	0.4	12
DRB-22C	22	7.2	26	3.6	M3	2	1.5	3	27,000	1.4×10^{-6}	220	2.5	0.15	0.4	19
DRB-25C	25	7.4	31	3.7	M3	2	2	4	25,000	3.4×10^{-6}	380	2.5	0.2	0.5	28
DRB-32C	32	9.4	39	4.7	M4	4	4	8	19,000	9.1 × 10 ⁻⁶	500	2.5	0.25	0.5	58
DRBL-32C	32	9.4	44	4.7	M4	4	4	8	17,000	1.1 × 10 ⁻⁵	500	2.5	0.25	0.5	75
DRB-39C	39	10.8	43	5.4	M5	8	8	16	15,000	2.1 × 10 ⁻⁵	700	2.5	0.25	0.5	100
DRBL-39C	39	13.6	56	6.8	M5	8	8	16	13,000	3.1×10^{-5}	700	2.5	0.25	0.5	140
DRB-49C	49	15	63	7.5	M6	13	16	32	12,000	9.4×10^{-5}	1,800	2.5	0.25	0.5	240
DRBL-49C	49	15	70	7.5	M6	13	16	32	11,000	1.0×10^{-4}	1,800	2.5	0.25	0.5	260
DRB-60C	60	19	76	9.35	M8	30	32	64	10,000	2.5×10^{-4}	3,100	2.5	0.3	0.5	410
DRBL-60C	60	19	88	9.35	M8	30	32	64	7,000	3.0×10^{-4}	3,100	2.5	0.3	0.5	490

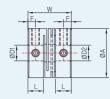
- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- $\ensuremath{^{*}}$ The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- $\ensuremath{^{*}}$ Please contact us for other dimension allowances.

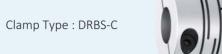
Product NO.		Standard Inner Diameter(D1,D2)(mm)																		
Product NO.	2	3	4	5	6	6.35	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25
DRB-8	•	•																		
DRB-12		•	•	•																
DRB-16		•	•	•	•															
DRB-19			•	•	•	•	•													
DRB-22				•	•	•	•	•	•											
DRB-25				•	•	•	•	•	•	•	•									
DRB32					•	•	•	•	•	•	•	•	•							
DRB □-39 □									•	•	•	•	•	•	•	•				
DRB □-49 □											•	•	•	•	•	•	•			
DRB60													•	•	•	•	•	•	•	•

- * We encourage h7 for tolerance of attachment axis.
- * The inner diameter of marked is the standard diameter.
- st For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- * We can supply with Key way.

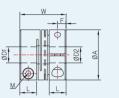
•	11	1.	
١	11	1	
١.	.	11 .	•











		Dimensi	on(mm)		Tightening Screw		Nateu.	Max.	Max.	Moment	Torsional	Angle	Paralle	End	Mass
Product NO.					Size	Torque	Torque	Torque	RPM	of inertia	Stiffness	7	rarane	play	mass
	Α	L	W	F	M	N·m	N⋅m	N · m	min ^{−1}	kg⋅m²	N·m/rad	0	mm	± mm	g
DRBS-8	8	3.4	10	1.7	M2	0.3	0.1	0.2	78,000	1.0 × 10 ⁻⁸	25	1	0	0.1	1
DRBS-12	12.7	4.5	13	2.2	M2.5	0.5	0.4	8.0	52,000	7.4×10^{-8}	80	1	0	0.15	3.4
DRBS-16	16	5.0	14	2.5	M3	0.7	0.5	1	39,000	2.9×10^{-7}	180	1	0	0.2	6
DRBS-19	19	6.31	17	3.1	M3	0.7	1	2	31,000	5.0×10^{-7}	200	1	0	0.2	10
DRBS-22	22	6.9	19	3.4	M4	1.7	1.5	3	27,000	1.1×10^{-6}	350	1	0	0.2	14
DRBS-25	25	7.9	22	3.9	M4	1.7	2	4	25,000	2.5×10^{-6}	780	1	0	0.2	22
DRBS-32	32	10.5	29	5.2	M5	4	4	8	19,000	7.5×10^{-6}	1,100	1	0	0.2	45
DRBS-12C	12.7	5	14	2.5	M2	0.5	0.4	8.0	52,000	7.4×10^{-8}	80	1	0	0.15	3.8
DRBS-16C	16	6	16	3.0	M2.5	1	0.5	1	39,000	2.9×10^{-7}	180	1	0	0.2	6.5
DRBS-19C	19	6.31	17	3.1	M2.5	1	1	2	31,000	5.0×10^{-7}	200	1	0	0.2	10
DRBS-22C	22	7.4	20	3.7	M3	2	1.5	3	27,000	1.1 × 10 ⁻⁶	350	1	0	0.2	15
DRBS-25C	25	8.4	23	4.2	M3	2	2	4	25,000	2.5×10^{-6}	780	1	0	0.2	25
DRBS-32C	32	11	30	5.5	M4	4	4	8	19,000	7.5×10^{-6}	1,100	1	0	0.2	50

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- * The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- * Please contact us for other dimension allowances.

	Standard Inner Diameter(D1,D2)(mm)													
Product NO.	2	3	4	5	6	6.35	8	9.525	10	11	12	14	15	
DRBS-8	•	•									I			
DRBS-12		•	•	•										
DRBS-16		•	•	•	•									
DRBS-19			•	•	•	•	•							
DRBS-22				•	•	•	•	•	•					
DRBS-25				•	•	•	•	•	•	•	•			
DRBS-32					•	•	•	•	•	•	•	•	•	

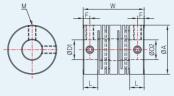
- * We encourage h7 for tolerance of attachment axis.
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- * We can supply with Key way.

Set screw type : DRB-SUS

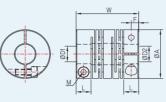
Clamp Type : DRB-C-SUS

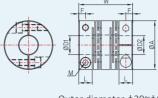
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Please use a Homepage is the latest Data and CAD

Outer diameter φ12~φ32

Outer diameter φ39~φ60

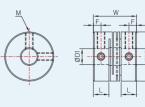
Product NO. Dimension(mm) Tightening Screw Size Torque Torque Torque Torque RPM Max. Max. Moment Torsional Stiffness Angle Paral Torque Torque Torque RPM Torque Torque RPM Torque Torqu	End play	Mass
Todatio.	Diav	IVIdSS
A L W F M N·m N·m min ⁻¹ kg·m ² N·m/rad ° mm	17	
	± mm	g
DRB-8 SUS 8 3.5 14 1.7 M2 0.3 0.2 0.4 78,000 3.1 × 10−8 50 2.5 0.10	0.2	4
DRB-12 SUS 12 4.5 19 1.9 M2.5 0.5 0.3 0.6 52,000 2.1 × 10 ⁻⁷ 65 2.5 0.10	0.3	12
DRB-16 SUS 16 6.1 22 2.3 M3 0.7 0.5 1 39,000 8.4×10 ⁻⁷ 85 2.5 0.15	0.3	21
DRB-19 SUS 19 6.1 23 2.8 M3 0.7 1 2 31,000 2.4×10 ⁻⁶ 250 2.5 0.15	0.3	38
DRB-22 SUS 22 7.2 26 3.25 M4 1.7 1.6 3.2 27,000 3.8 × 10 ⁻⁶ 300 2.5 0.15	0.4	50
DRB-25 SUS 25 7.4 31 3.4 M4 1.7 2.1 4.2 25,000 6.8 × 10−6 350 2.5 0.2	0.4	71
DRB-32 SUS 32 9.4 39 4.7 M5 4 3.8 7.6 19,000 2.6×10 ⁻⁵ 850 2.5 0.25	0.5	160
DRB-39 SUS 39 16 56 6.8 M5 4 8 16 15,000 8.7×10 ⁻⁵ 1,000 2.5 0.25	0.5	350
DRB-49 SUS 49 20 70 9.5 M6 7 16 32 12,000 2.7 × 10 ⁻⁴ 1,400 2.5 0.25	0.5	700
DRB-60 SUS 60 19 88 9 M8 15 35 70 10,000 8.4×10 ⁻⁴ 1,800 2.5 0.3	0.5	1,300
DRB-12C SUS 12 5 19 2.5 M2 0.5 0.3 0.6 52,000 2.2 × 10 ⁻⁷ 65 2.5 0.1	0.2	12
DRB-16C SUS 16 6.1 22 3.05 M2.5 1 0.5 1 39,000 9.0 × 10 ⁻⁷ 85 2.5 0.15	0.3	25
DRB-19C SUS 19 6.1 23 3.05 M2.5 1 1 2 31,000 2.5 × 10−6 250 2.5 0.15	0.3	32
DRB-22C SUS 22 7.2 26 3.6 M3 1.5 1.6 3.2 27,000 3.8×10 ⁻⁶ 300 2.5 0.15	0.4	43
DRB-25C SUS 25 7.4 31 3.7 M3 1.5 2.1 4.2 25,000 7.1 × 10−6 350 2.5 0.2	0.4	78
DRB-32C SUS 32 9.4 39 4.7 M4 2.5 3.8 7.6 19,000 2.7 × 10−5 850 2.5 0.25	0.5	170
DRB-39C SUS 39 10.8 43 5.4 M5 4 8 16 15,000 6.1 × 10−5 1,200 2.5 0.25	0.5	280
DRBL-39C SUS 39 13.6 56 6.8 M5 4 8 16 13,000 9.0 × 10−5 1,000 2.5 0.25	0.5	370
DRB-49C SUS 49 15 63 7.5 M6 8 16 32 12,000 2.7 × 10−5 1,600 2.5 0.25	0.5	670
DRBL-49C SUS 49 15 70 7.5 M6 8 16 32 11,000 2.8 × 10 ⁻⁴ 1,400 2.5 0.25	0.5	750
DRB-60C SUS 60 19 76 9.35 M8 16 35 70 10.000 7.2×10 ⁻⁴ 2.000 2.5 0.3	0.5	1,150
DNB-00C 303 00 19 /0 9.55 W0 10 55 /0 10,000 7.2 \times 10 + 2,000 2.5 0.5		

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- $\ensuremath{^{*}}$ The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- * Please contact us for other dimension allowances.

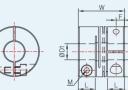
Product NO.								Star	dard Ir	ner Dia	meter([D1,D2)(mm)							
Product No.	2	3	4	5	6	6.35	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25
DRB-8SUS	•	•																		
DRB-12 SUS		•	•	•																
DRB-16 SUS		•	•	•	•															
DRB-19 SUS			•	•	•	•	•													
DRB-22 SUS				•	•	•	•	•	•											
DRB-25 SUS				•	•	•	•	•	•	•	•									
DRB -32 SUS					•	•	•	•	•	•	•	•	•							
DRB -39 SUS									•	•	•	•	•	•						
DRB -49 SUS											•	•	•	•	•	•	•			
DRB □-60 □ SUS													•	•	•	•	•	•	•	•

- * We encourage h7 for tolerance of attachment axis.
- * The inner diameter of marked is the standard diameter.
- * For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- * We can supply with Key way.









Product NO.		Dimensi	ion(mm)		Tighteni Size	ng Screw Torque	Rated. Torque	Max. Torque	Max. RPM	Moment of inertia	Torsional Stiffness	Angle	Paralle	End play	Mass
Troduct No.	Α	L	W	F	M	N·m	N · m	N - m	min-1	kg·m²	N · m/rad	0	mm	± mm	g
DRBS-8 SUS	8	34	10	1.7	M2	0.3	0.2	0.4	78,000	2.4 × 10 ⁻⁸	49	1	0	0.1	2.7
DRBS-12 SUS	12.7	4.5	13	2.2	M2.5	0.5	0.3	0.6	52,000	1.8×10^{-7}	140	1	0	0.1	7.8
DRBS-16 SUS	16	5.0	14	2.5	M3	0.7	0.5	1	39,000	7.2×10^{-7}	240	1	0	1	18
DRBS-19 SUS	19	6.31	17	3.1	M3	0.7	0.9	1.8	31,000	2.1×10^{-7}	300	1	0	0.1	30
DRBS-22 SUS	22	6.9	19	3.4	M4	1.7	1.6	3.2	27,000	2.0×10^{-6}	350	1	0	0.1	39
DRBS-25 SUS	25	7.9	22	3.9	M4	1.7	2	4	25,000	6.1 × 10 ⁻⁶	720	1	0	0.2	63
DRBS-32 SUS	32	10.5	29	5.2	M5	4	3.8	7.6	19,000	2.1×10^{-5}	1,300	1	0	0.2	130
DRBS-12C SUS	12.7	5	14	2.5	M2	0.5	0.3	0.6	52,000	1.8×10^{-7}	140	1	0	0.1	10
DRBS-16C SUS	16	6	16	3.0	M2.5	1	0.5	1	39,000	7.8×10^{-7}	240	1	0	0.1	20
DRBS-19C SUS	19	6.31	17	3.1	M2.5	1	0.9	1.8	31,000	1.5×10^{-6}	300	1	0	0.1	32
DRBS-22C SUS	22	7.4	20	3.7	M3	1.5	1.6	3.2	27,000	2.1×10^{-6}	350	1	0	0.1	40
DRBS-25C SUS	25	8.4	23	4.2	M3	1.5	2.1	4.2	25,000	6.3×10^{-6}	720	1	0	0.2	70
DRBS-32C SUS	32	11	30	5.5	M4	2.5	3.8	7.6	19,000	2.2×10^{-5}	1,300	1	0	0.2	140

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- $\ensuremath{^{*}}$ The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- * Please contact us for other dimension allowances.

Set screw type: DRBS-SUS

Clamp Type : DRBS-C-SUS

Product NO.					9	Standard Inn	er Diamete	er(D1,D2)(mm	n)				
Product NO.	2	3	4	5	6	6.35	8	9.525	10	11	12	14	15
DRBS-8SUS	•	•											
DRBS-12 SUS		•	•	•									
DRBS-16 SUS		•	•	•	•								
DRBS-19 SUS			•	•	•	•	•						
DRBS-22 SUS				•	•	•	•	•	•				
DRBS-25 SUS				•	•	•	•	•	•	•	•		
DRBS-32 SUS					•	•	•	•	•	•	•	•	•

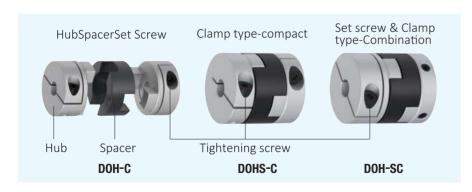
- * We encourage h7 for tolerance of attachment axis
- * The inner diameter of \bullet marked is the standard diameter.
- * For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- * We can supply with Key way.



- Bigger eccentricity and declination allowed as hub and space are slipped.
- Less shaft load caused by misalignment, so reduce to force to the shaft.
- Absorbs the angularity which is easy for spacer Protrusion.
- It absorbs vibration and has electrical insulation.
- It is easy to assemble. (easy replacement)
- Usable temperature is -20°C~80°C.

Structure (fastening type) and material





- Hub : Aluminum alloy with high stiffness
- Hub surface treatment: Alumite process
- Set Screw : SCM435
- Tightening screw : SCM435
- Spacer : Polyactel

Advantage of Spacer

Spacer protrusion

As the existing time Oldham type coupling without the spacer protrusion interferes outside diameter by spacer and hub, the error of angularity is less and a bending moment is occurred in the shaft. However, DOH type absorbs the angularity which is easy as protrusion and has no bending moment. It lessens the shaft load allowing the error of angularity with large protrusion of the space without problem.





DOH(With the spacer protrusion)

Penetrate

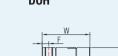
If you request penetrate the space during order, it is possible. However, there is a size that can not penetrate the shaft according to the inner diameter, so be sure to check the standard inner diameter when requested.



- Usage
- Order Method (Order Example)

- Servo Motor
- Stepping Motor
- General wide use Motor
- Encoder
- Others

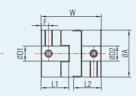
DOH	25	С	8	10
Product NO	Size	Fastening type	Inner diameter : D1	Inner diameter : D2





DOH-SS





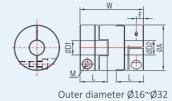
		D:-		(====)		Tightenin	g Screw	Rated.	Max.	Max.	Moment	Torsional	Angle	Davalla	End	
Product NO.		ווט	mension	(111111)		Size	Torque	Torque	Torque	RPM	of inertia	Stiffness	Aligie	Paralle	play	Mass
Product No.	A	L1	- L2	W	F	М	N · m	N · m	N · m	min-1	kg·m ²	N-m/rad	٥	mm	mm	g
DOH-16	16	8	.1	18	2.5	M3	0.7	1	2	39,000	2.4×10^{-7}	65	2	1	0.1	8
DOH-20	20	9		20	2.7	M4	1.7	1.5	3	31,000	8.1 × 10 ⁻⁷	120	2	1.5	0.1	14
DOH-25	25	11	.5	25.5	3.6	M4	1.7	2.5	5	25,000	1.8×10 ⁻⁶	200	2	2	0.1	27
DOH-32	32	14	.5	32	4	M5	4	7	14	19,000	3.0×10^{-6}	620	2	2.5	0.2	48
DOH-43	43	24		52	8.25	M5	4	15	30	15,000	3.9×10 ⁻⁵	1,200	2	3	0.2	140
DOH-53	53	27		58	9.75	M6	7	25	50	12,000	6.7 × 10 ⁻⁵	1,400	2	3.5	0.2	250
DOH-57	57	36		77	13.5	M8	15	36	72	10,000	2.2×10^{-4}	2,600	2	4	0.2	350
DOH-70	73	37		77	12.5	M8	15	65	130	7,000	4.5×10^{-4}	4,800	2	4	0.2	550
DOH-16S	16	8.1	10.9	20.8	2.5/3.9	M3	0.7	1	2	39,000	2.7×10^{-7}	65	2	1	0.1	10
D0H-20S	20	9	11.7	22.8	2.7/4	M4	1.7	1.5	3	31,000	9.0×10 ⁻⁷	120	2	1.5	0.1	14
D0H-25S	25	11.5	14.7	28.8	3.6/5.2	M4	1.7	2.5	5	25,000	2.6×10^{-6}	200	2	2	0.1	23
D0H-32S	32	14.5	21	38.5	4 /7.25	M5	4	7	14	19,000	1.1×10 ⁻⁵	620	2	2.5	0.2	41
DOH-16SS	16	10	.9	23.6	3.9	M3	0.7	1	2	39,000	2.3×10^{-7}	65	2	1	0.1	8
DOH-20SS	20	11	.7	25.5	4	M4	1.7	1.5	3	31,000	8.9×10^{-7}	120	2	1.5	0.1	14
DOH-25SS	25	14	.7	32	5.2	M4	1.7	2.5	5	25,000	1.8×10 ⁻⁶	200	2	2	0.1	23
DOH-32SS	32	21		45	7.25	M5	4	7	14	19,000	9.5×10 ⁻⁶	620	2	2.5	0.2	41

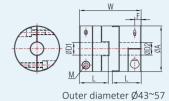
- * DOH16 has one set screw in the hub.
- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- * The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- * Please contact us for other dimension allowances.

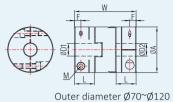
Product NO.									Sta	andard	Inner	Diame	ter(D1	,D2)(m	ım)								
Product NO.	3	4	5	6	6.35	8	9.525	10	12	14	15	16	18	20	22	24	25	28	30	32	34	35	40
DOH-16	•	•	•	•																			
D0H-20□		•	•	•	•	•																	
DOH-25			•	•	•	•	•	•															
DOH-32				•	•	•	•	•	•	•	•												
DOH-43						•	•	•	•	•	•	•	•	•									
DOH-53								•	•	•	•	•	•	•	•	•	•						
DOH-57											•	•	•	•	•	•	•	•					
DOH-70											•	•	•	•	•	•	•	•	•	•	•	•	0

- * We encourage h7 for tolerance of attachment axis
- * The inner diameter of \bullet and 0 marked box is the standard diameter.
- * The inner diameter of O marked box can not penetrate through the shaft.
- * For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- * We can penetrate into spacer.
- * We can supply with Key way

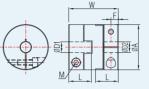




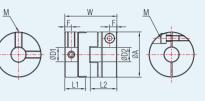












D	Oŀ	IS	-C

Tightenin	g Screw	Rated.	Max.	Max.	Moment	Torsio
Size	Torque	Torque	Torque	RPM	of inertia	Stiffne

		Die	mension	/mm)		Tightenin	g Screw	Rated.	Max.	Max.	Moment	Torsional	Angle	Paralle	End	
Product NO.		ווט	Hension	1(111111)		Size	Torque	Torque	Torque	RPM	of inertia	Stiffness	Aligic	raialle	play	Mass
Product No.	A	L1	L L2	w	F	М	N · m	N · m	N · m	min ⁻¹	kg·m²	N-m/rad	o	mm	mm	g
DOH-16C	16	10	.9	23.6	2.9	M2.5	1	1	2	39,000	3.7 × 10 ⁻⁷	65	2	1	0.1	9
DOH-20C	20	11	.7	25.5	3.2	M2.5	1	1.5	3	31,000	9.3×10^{-7}	120	2	1.5	0.1	16
DOH-25C	25	14	.7	32	4	M3	2	2.5	5	25,000	3.3×10^{-6}	200	2	2	0.1	30
DOH-32C	32	21		45	5.4	M4	4	7	14	19,000	1.4×10 ⁻⁵	620	2	2.5	0.2	60
DOH-43C	43	24		52	6.2	M5	8	15	30	15,000	4.3 × 10 ⁻⁵	1,200	2	3	0.2	150
DOH-53C	53	27	,	58	7	M5	8	25	50	12,000	1.2×10^{-4}	1,400	2	3.5	0.2	250
DOH-57C	57	36	i	77	7.9	M6	13	36	72	10,000	1.8 × 10 ⁻⁴	2,600	2	3.5	0.2	315
DOH-70C	73	28		83	10	M8	30	65	130	7,000	5.4×10^{-4}	2,000	2	3.5	0.2	670
DOH-90C	88	33	.85	98.7	13	M10	50	105	210	5,000	1.2 × 10 ⁻³	2,500	2	4	0.35	1,240
DOH-120C	118	40	.5	138.7	13.5	M12	90	200	400	4,000	6.5 × 10−3	6,300	2	4.5	0.4	2,600
D0HS-12C	12	7	•	14.9	2.5	M2	0.5	0.2	0.4	52,000	7.1 × 10 ⁻⁸	9	2	0.6	0.1	3
DOHS-16C	16	9	.5	20.8	3.2	M2.5	1	1	2	39,000	3.2×10^{-7}	65	2	1	0.1	8
DOHS-20C	20	10	.2	22.5	3.3	M2.5	1	1.5	3	31,000	8.2 × 10 ⁻⁷	120	2	1.5	0.1	14
D0HS-25C	25	12	.2	27	3.9	M3	2	2.5	5	25,000	2.6×10 ⁻⁶	200	2	2	0.1	25
D0HS-32C	32	16	;	35	4.75	M4	4	7	14	19,000	8.3 × 10 ⁻⁶	620	2	2.5	0.2	48
DOHS-43C	43	21	.5	47	7	M5	8	15	30	15,000	2.0 × 10 ⁻⁵	1,200	2	3	0.2	120
DOHS-53C	53	24	.5	53	8.5	M5	8	25	50	12,000	9.6 × 10 ⁻⁵	1,400	2	3.2	0.2	215
DOHS-57C	57	25	i	55	8	M6	13	36	72	10,000	1.3 × 10 ⁻⁴	2,600	2	4	0.2	235
DOHS-70C	73	37		77	12.5	M8	30	65	130	7,000	4.5×10^{-4}	4,800	2	4	0.2	450
DOH-16SC	16	8.1	10.9	20.8	2.5/2.9	M3/M2.5	0.7/1	1	2	39,000	2.9×10^{-7}	65	2	1	0.1	7.5
DOH-20SC	20	9	11.7	22.8	2.7/3.2	M4/M2.5	1.7/1	1.5	3	31,000	9.0×10 ⁻⁷	120	2	1.5	0.1	15.5
DOH-25SC	25	11.5	14.7	28.8	3.6/4	M4/M3	1.7/2	2.5	5	25,000	2.6×10 ⁻⁶	200	2	2	0.1	27
DOH-32SC	32	14.5	21	38.5	4 /5.4	M5/M4	4/4	7	14	19,000	1.1×10 ⁻⁵	620	2	2.5	0.2	70

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- * The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- $\ensuremath{^{*}}$ Please contact us for other dimension allowances.

Product NO.												St	andar	d Inn	er Dia	mete	r(D1,[D2)(m	nm)										
Product NO.	3	4	5	6	6.3	5 8	9.5	25	10	12	14	15	16	18	20	22	24	25	28	30	32	34	35	40	42	45	50	55	60
DOH12	•	•	•																										
DOH16	•	•	•	•																									
DOH20		•	•	•	•	•																							
DOH□-25□			•	•	•	•	•		•																				
DOH32				•	•	•	•		•	•	•	•																	
DOH□-43□						•	•		•	•	•	•	•	•	•														
DOH□-53□									•	•	•	•	•	•	•	•	•	•											
DOH57												•	•	•	•	•	•	•	•										
DOH70												•	•	•	•	•	•	•	•	•	•	•	•	0					
DOH□-90□												•	•	•	•	•	•	•	•	•	•	•	•	•	0	0	0		
DOH120																		•	•	•	•	•	•	•	•	•	•	0	0

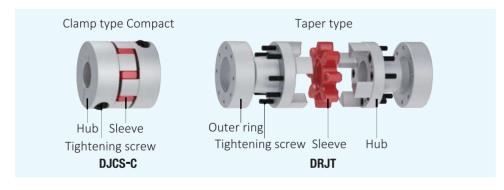
- * We encourage h7 for tolerance of attachment axis
- * The inner diameter of ullet and o marked box is the standard diameter.
- * The inner diameter of O marked box can not penetrate through the shaft.
- * For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- $\ensuremath{^{*}}$ We can penetrate into spacer and can supply with Key way.



- Unique structure as sleeve is pressed into both Hubs.
- Zero backlash available in low torque.
- Outstanding absorbing eccentricity, Declination, Torsional vibration.
- Oil-resistance and electric insulation.
- Forward and reverse are the same.

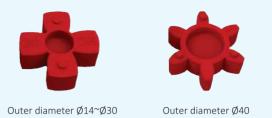
Structure (fastening type) and material





- Hub : Aluminum alloy with high stiffness
- Hub surface treatment : Alumite process
- Outer ring : Aluminum alloy with high stiffness
- Outer ring surface treatment : Alumite process
- Set screw : SCM435
- Tightening screw : SCM 435
- Sleeve : Polyurethane

Sleeve design





Outer diameter Ø55~Ø100

Sleeve type

Туре	Standard	Penetrate	Shore	Material	Sustainable temperature	Feature
RD	*	*	98-A	Polyurethane	-30~+90	High torque High responsiveness
YL	*	*	92-A	Polyurethane	-30~+90	Flexible and responsive balance type
GR	*	*	64-D	Hytrel	-50~+120	High responsiveness High load Heat resistance

- * Although the sleeve has water resistance and oil resistance, please avoid the extreme attachment because it is a factor of deformation.
- * Use and storage under direct sunlight may shorten the life of the sleeve.

Usage

- Servo Motor - Stepping Motor
- General wide use Motor
- Encoder
- Others

Others

- You can order claps on one side and set screw on the other side.
- Clamp type DJCL-30CRD or bigger size can be ordered Clamp split type.

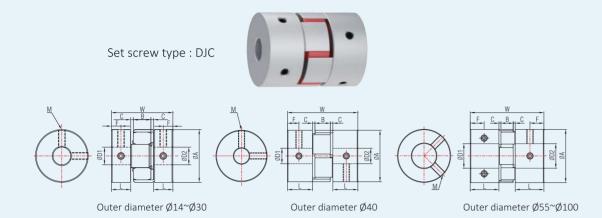
Order Method (Order Example)

DJC	25	С	RD	8	10
Product NO	Size	Fastening type	Sleeve type	Inner diameter : D1	Inner diameter : D2

DJCS	25	С	RD	8	10
Product NO	Size	Fastening type	Sleeve type	Inner diameter : D1	Inner diameter : D2

DRJT	55	Α	RD	15	20
Product NO	Size	Material	Sleeve type	Inner diameter : D1	Inner diameter : D2





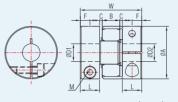
Product NO.			Dimensi	on(mm)			Tighteni Size	ing Screw	Rated.	Max. Torque	Max. RPM	Moment of inertia	Torsional Stiffness	Angle	Paralle	End play	Mass
Product No.	Α	L	W	В	C	F	M	N·m	N·m	N·m	min-1	kg·m ²	N · m/rad	0	mm	mm	g
DJC-14RD	14	7	22	6	1	3.5	M3	0.7	2	4	45,000	2.1 × 10 ⁻⁷	30	1	0.1	+0.6	7
DJC-20RD	20	10	30	8	1	5	M3	0.7	5	10	31,000	1.0×10 ⁻⁶	65	1	0.1	+0.8	18
DJC-25RD	25	10	31.5	9	1.25	5	M4	1.7	10	20	25,000	2.4×10-6	220	1	0.1	+1.0 0	25
DJC-30RD	30	11	35	10	1.5	5.5	M4	1.7	14	28	21,000	5.9×10 ⁻⁶	220	1	0.1	+1.0 0	46
DJCL-30RD	30	15.5	44	10	1.5	7.75	M4	1.7	14	28	20,000	7.2×10 ⁻⁶	220	1	0.1	+1.0	53
DJC-40RD	40	19.5	55	12	2	9.75	M5	4	18	36	15,000	3.1×10 ⁻⁵	2,000	1	0.1	+1.0 0	125
DJCL-40RD	40	25	66	12	2	11.5	M5	4	18	36	14,000	4.0 × 10 ⁻⁵	2,000	1	0.1	+1.0	150
DJC-55RD	55	30	78	14	2	15	M6	7	60	120	11,000	1.7×10 ⁻⁴	4,000	1	0.1	+1.4 0	320
DJC-65RD	65	35	90	15	2.5	17.5	M8	15	160	320	9,000	3.9×10^{-4}	8,000	1	0.1	+1.5 0	550
DJC-80RD	80	45	114	18	3	22.5	M8	15	325	650	7,000	1.1×10 ⁻³	20,000	1	0.1	+1.5 0	1,000
DJC-95RD	95	50	126	20	3	25	M8	15	450	900	6,000	2.3×10 ⁻³	30,000	1	0.1	+2.0 0	1,500
DJC-100RD	104	56	140	21	3.5	28	M10	25	600	1,200	6,000	4.8×10 ⁻³	40,000	1	0.1	+2.0 0	2,550

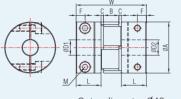
- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- * The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- * Please contact us for other dimension allowances.

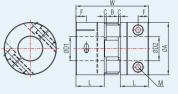
Durado et NO												St	anda	rd In	ner [Diame	eter(l	D1,D:	2)(mr	n)											
Product NO.	3	4	4.5	5	6	6.35	7	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	26	28	30	32	35	38	40	45	50	60
DJC-14RD	•	•	•	•																											
DJC-20RD		•	•	•	•	•	•	•																							
DJC-25RD				•	•	•	•	•	•	•																					
DJC□-30RD					•	•	•	•	•	•	•	•	•																		
DJC□-40RD								•	•	•	•	•	•	•	•	•															
DJC-55RD										•	•	•	•	•	•	•	•	•	•	•	•	•	•								
DJC-65RD												•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
DJC-80RD														•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
DJC-95RD																		•	•	•	•	•	•	•	•	•	•	•	•	•	
DJC-100RD																		•	•	•	•	•	•	•	•	•	•	•	•	•	•

- * We encourage h7 for tolerance of attachment axis
- * The inner diameter of marked is the standard diameter.
- * For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- * We can penetrate the sleeve.
- * We can supply with Key way.









Outer diameter Ø14~Ø30

Outer diameter Ø40

Outer diameter Ø55~Ø100

Product NO.			Dimensi	on(mm)			<u> </u>	ing Screw	Rated. Torque	Max.	Max. RPM	Moment of inertia	Torsional Stiffness	Angle	Paralle	End play	Mass
Product NO.	Α	1	W	В	С	F	Size	Torque N·m	N·m	N·m	min-1	kg·m ²	N · m/rad	0	mm	mm	g
DJC-14CRD	14	7	22	6	1	3.5	M2	0.5	2	4	45.000	1.6×10 ⁻⁷	30	1	0.1	+0.6	6
DJC-20CRD	20	10	30	8	1	5	M2.5	1	5	10	31,000	1.1×10 ⁻⁶	65	1	0.1	+0.8	19
DJC-25CRD	25	10	31.5	9	1.25	5	M3	2	10	20	25,000	2.4×10 ⁻⁸	220	1	0.1	+1.0	25
DJC-30CRD	30	11	35	10	1.5	5.5	M4	4	14	28	21,000	6.2×10 ⁻⁶	220	1	0.1	+1.0	50
DJCL-30CRD	30	15.5	44	10	1.5	5.5	M4	4	14	28	20,000	7.5×10 ⁻⁶	220	1	0.1	+1.0	55
DJC-40CRD	40	19.5	55	12	2	7	M5	8	18	36	15,000	3.1 ×10⁻⁵	2,000	1	0.1	+1.0 0	135
DJCL-40CRD	40	25	66	12	2	8.5	M5	8	18	36	14,000	3.9×10 ⁻⁵	2,000	1	0.1	+1.0	160
DJC-55CRD	55	30	78	14	2	10.5	M6	13	60	120	11,000	1.6×10 ⁻⁴	4,000	1	0.1	+1.4 0	330
DJC-65CRD	65	35	90	15	2.5	13	M8	30	160	320	9,000	3.8×10^{-4}	8,000	1	0.1	+1.5 0	560
DJC-80CRD	80	45	114	18	3	15	M10	50	325	650	7,000	1.1×10 ⁻³	20,000	1	0.1	+1.5 0	1,050
DJC-95CRD	95	50	126	20	3	18	M10	50	450	900	6,000	2.3×10−3	30,000	1	0.1	+2.0	1,600
DJC-100CRD	104	56	140	21	3.5	20	M12	90	600	1,200	6,000	4.6 × 10−3	40,000	1	0.1	+2.0 0	2,550

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- * The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- * Please contact us for other dimension allowances.

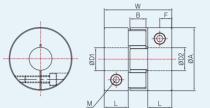
Product NO.												St	tanda	rd In	ner [Diamo	eter(D1,D:	2)(m	m)											
Product NO.	3	4	4.5	5	6	6.3	7	8	9.52	5 10	11	12	14	15	16	18	19	20	22	24	25	26	28	30	32	35	38	40	45	50	60
DJC-14CRD	•	•	•	•																											
DJC-20CRD		•	•	•	•	•	•	•																							
DJC-25CRD				•	•	•	•	•	•	•																					
DJC -30CRD					•	•	•	•	•	•	•	•	•																		
DJC -40CRD								•	•	•	•	•	•	•	•	•															
DJC-55CRD										•	•	•	•	•	•	•	•	•	•	•	•	•	•								
DJC-65CRD												•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
DJC-80CRD														•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
DJC-95CRD																		•	•	•	•	•	•	•	•	•	•	•	•	•	
DJC-100CRD																		•	•	•	•	•	•	•	•	•	•	•	•	•	•

- * We encourage h7 for tolerance of attachment axis
- * The inner diameter of marked is the standard diameter.
- * For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- * We can penetrate the sleeve.
- * We can supply with Key way.

Clamp Type

COUPLING







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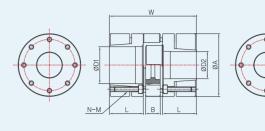
Product NO.		Dim	nension(mm)		Tighteni Size	ing Screw Torque	Rated. Torque	Max. Torque	Max. RPM	Moment of inertia	Torsional Stiffness	Angle	Paralle	End play	Mass
	Α	L	W	В	F	М	N·m	N · m	N · m	min−1	kg·m ²	N · m/rad	0	mm	± mm	g
DJCS-55CRD	55	20.5	59	14	10.5	M6	13	60	120	11,000	1.3 ×10 ⁻⁴	4,000	1	0.1	+1.4 0	280
DJCS-65CRD	65	22	64	15	11	M8	30	160	320	9,000	2.6 ×10 ⁻⁴	8,000	1	0.1	+1.5 0	400
DJCS-80CRD	80	32	88	18	16	M10	50	320	640	7,000	8.7 ×10 ⁻⁴	20,000	1	0.1	+1.5 0	860
DJCS-95CRD	95	33	92	20	16.5	M10	50	450	900	6,000	1.68×10 ⁻³	30,000	1	0.1	+2.0 0	1,190
DJCS-100CRD	104	34	96	21	17.5	M12	90	600	1,200	5,000	3.1 ×10 ⁻³	40,000	1	0.1	+2.0 0	1,700

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
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- * Please contact us for other dimension allowances.

Product NO.								Star	ndard Ir	ner Dia	meter([D1,D2)(r	mm)							
Troduct No.	12	14	15	16	18	19	20	22	24	25	26	28	30	32	35	40	45	50	55	60
DJCS-55CRD	•	•	•	•	•	•	•	•	•	•	•	•								
DJCS-65CRD			•	•	•	•	•	•	•	•	•	•	•	•	•					
DJCS-80CRD			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
DJCS-95CRD							•	•	•	•	•	•	•	•	•	•	•	•		
DJCS-100CRD							•	•	•	•	•	•	•	•	•	•	•	•	•	•

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- * We can penetrate the sleeve.
- * We can supply with Key way.







- Machine tool main axis and feed axis, Spindle

Features

- It is outstanding in transferring high torques, and optimized for spindling machines.
- Low moment of inertia due to high rigidity aluminum material.
- Excellent for high speed rotation with small moment of
- It also absorbs vibration generated by eccentricity and declination when rotating.
- It has excellent balancing and electric insulation.

		D:	monsi	on(mm)	,		Tigh	tening So	crew		Sleeve	torque	Max.	Moment	Torsional	Angle	Daralla	End	Mass
Product NO.		DI	mensi	OH(HIII)	,		Size	Torque	Quantity	Sleeve	Rated. Torque	Max. Torque	RPM	of inertia	Stiffness	Aligie	raialle	play	IVIdSS
	D1 (Min)	D2(Max)	Α	L	W	В	M	N·m	Qty	type	N·m	N·m	min ^{−1}	kg⋅m²	N · m/rad	mm	0	mm	kg
DRJT-30A	6	14	30	18.5	50	10	M3	1.34	4	RD	12.5	25	32,000	0.85×10 ⁻⁵	171.9	0.09	0.9	■1.0 -0.5	0.069
DRJT-40A	10	20	40	25	66	12	M4	3	6	RD	21	42	24,000	3.94×10 ⁻⁵	1,512	0.06	0.9	+1.2 -0.5	0.161
DRJT-55A	14	28	55	30	78	14	M5	6	4	RD	60	120	17,000	1.63×10 ⁻⁴	3,640	0.10	0.9	+1.4 -0.5	0.344
DRJT-65A	16	38	65	35	90	15	M5	6	8	RD	160	320	15,000	3.55×10 ⁻⁴	6,410	0.11	0.9	+1.5 -0.7	0.510
DRJT-80A	20	48	80	45	114	18	M6	10	8	RD	325	650	12,000	1.07×10 ⁻³	11,800	0.12	0.9	+1.8 -0.7	1.030
DRJT-95A	28	50	95	50	126	20	M8	25	4	RD	450	900	10,000	2.32×10⁻³	21,594	0.14	0.9	+2.0 -1.0	1.630
DRJT-100A	30	55	104	56	140	21	M10	49	4	RD	525	1,050	9,100	3.90×10⁻³	25,759	0.16	0.9	+2.0 -1.0	2.222

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
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- * Please contact us for other dimension allowances.

Product NO.									St	andard	d Inner	Diame	ter(D1,	.D2)(m	m)								
Troudet No.	6	8	9	10	11	14	15	16	19	20	24	25	28	30	32	35	38	40	42	45	48	50	55
DRJT-30A	•	•	•	•	•	•																	
DRJT-40A				•	•	•	•	•	•	•													
DRJT-55A						•	•	•	•	•	•	•	•										
DRJT-65A								•	•	•	•	•	•	•	•	•	•						
DRJT-80A										•	•	•	•	•	•	•	•	•	•	•	•		
DRJT-95A													•	•	•	•	•	•	•	•	•	•	
DRJT-100A														•	•	•	•	•	•	•	•	•	•

- $\ensuremath{^{*}}$ We encourage h7 for tolerance of attachment axis
- * The inner diameter of marked is the standard diameter.
- * For non-standard inner diameters other than the above table, it is available separately. Please contact us.



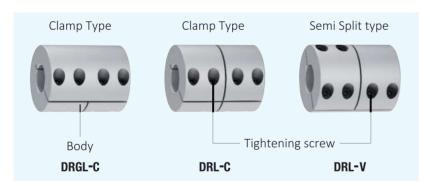
- Rigid coupling.
- Light weight, extremely low inertia, high responsiveness.
- Zero Backlash.
- Outstanding Oil-resistance and Anti-chemical.
- Do not allow eccentricity, Declination and End play.

Structure (fastening type) and material

Standard type

Long type



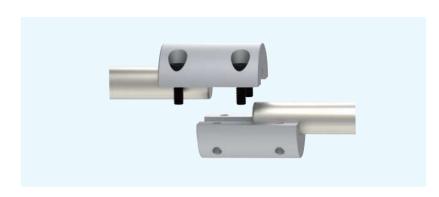


Please use a Homepage is the latest Data and CAD

- Body : Aluminum alloy with high stiffness
- Body surface treatment : Alumite process
- Set screw : SCM435
- Tightening Screw: SCM435

DRG-W type(Split type)

- DRG-W is fully separated type, making it easier to attach or disassemble the shaft.



DRL-V type(Semi-split type)

- Because DRL-V is semi-split type, it is easy to attach and disassemble the shaft.



Usage

- Servo Motor
- Stepping Motor
- General wide use Motor
- Encoder
- Others

Others

- Bolt material can be changed
- Body material can be changed. (Can be changed stainless steel)
- Tap processing is possible on the section.

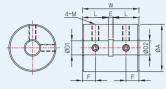


DRG	25	С	5	8
Product NO	Size	Fastening type	Inner diameter : D1	Inner diameter : D2

Set screw type : DRG

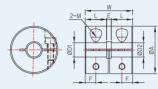


COUPLING



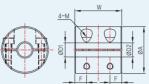
Clamp type : DRG-C





Split type: DRG-W





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		_	imension(m	ım)		Tighter	ning Screw	Rated.	Max.	Max.	Moment	
Product NO.		L	ninension(ii	1111)		Size	Torque	Torque	Torque	RPM	of inertia	Mass
	Α	L	W	F	E	M	N·m	N⋅m	N·m	min ⁻¹	kg · m ²	g
DRG-16	16	10.5	23	5.25	2	M3	0.7	1	2	39,000	4.4×10^{-7}	11
DRG-20	20	11	24	5.5	2	M3	0.7	1.5	3	31,000	9.7×10^{-7}	20
DRG-20L	20	14	30	7	2	M3	0.7	2.5	5	31,000	1.3×10^{-6}	23
DRG-25	25	16.5	35	8.25	2	M4	1.7	4.5	9	25,000	3.9×10^{-6}	40
DRG-32	32	19	40	9.5	2	M5	4	10	20	19,000	1.2×10 ⁻⁵	71
DRG-40	40	21	44	10.5	2	M5	4	20	40	15,000	2.8×10 ⁻⁵	120
DRG-43	43	25	52	12.5	2	M6	7	23	46	13,000	4.6×10^{-5}	170
DRG-50	50	25.5	53	12	2	M6	7	25	70	12,000	8.4×10 ⁻⁵	214
DRG-53	53	32	66	16	2	M8	15	28	56	10,000	1.4×10 ⁻⁴	360
DRG-65	65	31.5	65	12	2	M8	15	35	70	9,000	2.9×10^{-4}	450
DRG-16C	16	7	16	3.5	2	M2.5	1	1	2	39,000	3.0×10^{-7}	8
DRG-20C	20	9	20	4.5	2	M2.5	1	2.5	5	31,000	8.7×10^{-7}	15
DRG-25C	25	11.5	25	5.75	2	M3	2	4.5	9	25,000	2.7×10^{-6}	29
DRG-32C	32	15	32	7.5	2	M4	4	10	20	19,000	7.1×10^{-6}	50
DRG-40C	40	21	44	10.5	2	M5	8	20	40	15,000	2.4×10 ⁻⁵	120
DRG-43C	43	19.5	41	9.75	2	M5	8	23	46	13,000	3.3×10^{-5}	130
DRG-50C	50	26.5	55	13.25	2	M6	13	25	50	12,000	7.0×10^{-5}	140
DRG-53C	53	24.5	51	12.25	2	M6	13	28	56	10,000	9.2×10^{-7}	260
DRG-65C	65	31.5	65	16	2	M8	16	35	70	9,000	2.8×10 ⁻⁴	446
DRG-16W	16	-	16	4	-	M2.5	1	1	2	39,000	3.2×10^{-7}	8.8
DRG-20W	20	-	20	5	-	M2.5	1	2.5	5	31,000	8.7×10^{-7}	15
DRG-25W	25	-	25	6	-	M3	2	4.5	9	25,000	2.7×10^{-6}	29
DRG-32W	32	-	32	8	-	M4	4	10	20	19,000	9.3×10^{-6}	61
DRG-40W	40	-	40	9.5	-	M5	8	20	40	15,000	2.3×10 ⁻⁵	100
DRG-50W	50	-	50	12	-	M6	13	25	50	12,000	7.1×10 ⁻⁵	190
DRG-65W	65	-	65	16	-	M8	16	35	70	9,000	2.7×10 ⁻⁴	430

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- * Please contact us for other dimension allowances.

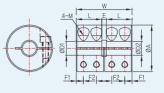
D 1 1 NO	Standard Inner Diameter(D1,D2)(mm)																	
Product NO.	3	4	5	6	8	10	11	12	14	15	16	18	20	22	24	25	28	30
DRG-16	•	•	•	•														
DRG-20		•	•	•	•	•												
DRG-25			•	•	•	•	•	•										
DRG-32				•	•	•	•	•	•	•								
DRG-40						•	•	•	•	•	•	•						
DRG-43						•	•	•	•	•	•	•	•	•				
DRG-50								•	•	•	•	•	•	•	•			
DRG-53								•	•	•	•	•	•	•	•			
DRG-65										•	•	•	•	•	•	•	•	•
DRG-16W			•	•														
DRG-20W				•	•													
DRG-25W					•	•												
DRG-32W						•	•	•	•									
DRG-40W										•	•	•						
DRG-50W												•	•					
DRG-65W																•	•	•

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- * We can supply with Key way.

DRGL-C DRL-C DRL-V

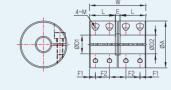
Clamp type : DRGL-C





Clamp type : DRL-C





Semi split type : DRL-V



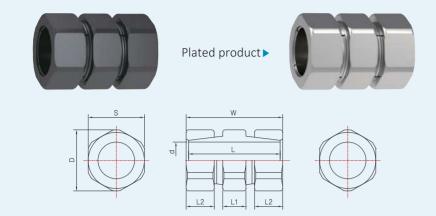
4-M		L	1 2-M	1
	\$ \$	\$ \$		A
- <u>F</u>			ØD2 ØA	
_	φ φ	φ φ	+	
<u>F1</u>	F2	F2	F1	T

			Dimen	sion(mm)			Tightenir	ng Screw	Rated.	Max.	Max.	Moment	Mass
Product NO.			Dilliell	31011(111111)			Size	Torque	Torque	Torque	RPM	of inertia	Mass
	Α	L	W	F1	F2	E	M	N·m	N·m	N·m	min ^{−1}	kg ⋅ m²	g
DRGL-16C	16	10.25	22.5	3	5.4	2	M2.5	1	1	2	39,000	3.4×10^{-7}	10
DRGL-20C	20	11	24	3.1	5.6	2	M2.5	1	2.5	5	31,000	9.2×10^{-7}	18
DRGL-25C	25	16.5	35	4.7	7.6	2	M3	2	4.5	9	25,000	3.4×10^{-6}	38
DRGL-32C	32	19	40	5.3	9.1	2	M4	4	10	20	19,000	1.0 × 10 ⁻⁵	70
DRGL-43C	43	25	52	7	11.5	2	M5	8	23	46	13,000	4.2×10^{-5}	160
DRGL-53C	53	32	66	9	14.5	2	M6	13	28	56	10,000	1.2×10^{-4}	300
DRL-16C	16	10	22	2.5	5.5	2	M2	0.5	1	2	39,000	3.4×10^{-7}	10
DRL-20C	20	11	24	2.5	6	2	M2	0.5	2.5	5	31,000	9.2×10^{-7}	18
DRL-25C	25	17	36	4.5	9	2	M2.5	1	4.5	9	25,000	3.4×10^{-6}	38
DRL-32C	32	19	40	4	10	2	M3	2	10	20	19,000	1.0 × 10 ⁻⁵	70
DRL-16V	16	11	22	2.5	5.5	-	M2	0.5	1	2	39,000	3.5×10^{-7}	10
DRL-20V	20	12	24	2.5	6	-	M2	0.5	2.5	5	31,000	9.5×10^{-7}	18
DRL-25V	25	18	36	4.5	9	-	M2.5	1	4.5	9	25,000	3.4×10^{-6}	38
DRL-32V	32	20	40	4	10	-	M3	2	10	20	19,000	1.0×10 ⁻⁵	70

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- * The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- * Please contact us for other dimension allowances.

Product NO.	Standard Inner Diameter(D1,D2)(mm)														
Product NO.	3	4	5	6	8	10	11	12	14	15	16	18	20	22	24
DR L-16	•	•	•	•											
DR L-20		•	•	•	•	•									
DR L-25			•	•	•	•	•	•							
DR L-32				•	•	•	•	•	•	•					
DR L-43						•	•	•	•	•	•	•	•	•	
DR L-53								•	•	•	•	•	•	•	•

- * We encourage h7 for tolerance of attachment axis
- * The inner diameter of marked is the standard diameter.
- st For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- * We can supply with Key way.



- Rigid coupling with simple tightening according to nut tightening.
- It is a coupling of high transmission torque and high thrust load.
- Plated products reduce torque or allowable load by 30%.

Structure (fastening type) and material



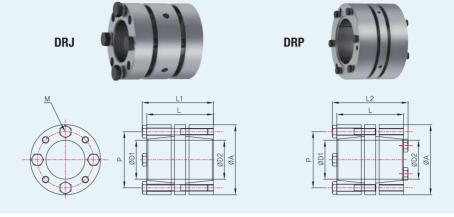
- Body : S45C, SUS304(Special order production type)
- Body surface treatment : Phosphate Manganese coatings, Electroless nickel plating, Special order production type.

Order Method (Order Example)

DRN	10
Product NO	Inner diameter : d

Product NO.			Dimens	ion(mm)			Allowable Torque	Allowable Thrust	Tightening torque	Moment of inertia	Mass
d	S	D	L1	L2	L	W	N·m	N	N · m	kg · m ²	g
DRN-6	12	13	5.5	5.5	20.5	21.5	7.8	833	11.8	4.24×10 ⁻⁸	13
DRN-7	14	15	5.5	5.5	20.5	21.9	8.8	981	12.7	5.25×10^{-7}	17.5
DRN-8	14	15	6	6	21	23	9.8	1,128	13.7	8.25×10^{-7}	18
DRN-9	17	18.5	6.5	7	23.5	25.5	11.8	1,520	15.7	1.98×10 ⁻⁶	30
DRN-10	17	18.5	7	7.5	25.4	27.4	15.7	1,804	19.6	2.08×10 ⁻⁶	30
DRN-11	19	21	8	9	29	31	19.6	1,912	24.5	3.75×10 ⁻⁶	43
DRN-12	19	21	8	9	30	32	37.3	2,010	29.4	3.75×10^{-6}	41
DRN-14	22	24.6	9	10	34	36	41.2	2,442	34.3	7.50×10 ⁻⁶	60
DRN-15	23	25	9.5	11.5	37.5	39.5	49	2,942	39.2	1.00×10 ⁻⁶	75
DRN-16	24	26	10	12	39	41	54.9	3,275	49	1.45×10 ⁻⁵	100
DRN-17	26	28.5	11	12.5	41	43	60.8	3,687	53.9	1.93×10 ⁻⁵	115
DRN-18	27	30	12	12.5	43	45	68.6	3,942	58.8	2.48×10 ⁻⁵	130
DRN-19	29	32	12	13.5	45	47	75.5	4,364	63.7	3.25×10^{-5}	150
DRN-20	30	32.5	13	14.5	48	50	88.2	4,952	68.6	3.50×10^{-5}	160
DRN-22	32	35	14	15	50	52	103	5,491	78.4	5.00×10^{-5}	190
DRN-24	35	38.5	14	16	52	54	123	6,080	83.3	7.25×10^{-5}	230
DRN-25	36	40	15	17	55	57	157	7,159	88.2	9.00×10^{-5}	260
DRN-30	41	45	17	17	63	65	177	11,768	127	8.75×10 ⁻⁵	350
DRN-35	46	51	19	19	69	71	206	11,768	167	1.55×10^{-4}	480

^{*} Please contact us for other dimension allowances.



Features

- High stiffness rigid coupling.
- High torque, high-response coupling.
- Suitable for servo motor.
- Excellent torsional rigidity.
- It is friction-tight with only tightening screw, so no key is needed.

Structure (fastening type) and material



- Body : S45C
- Side ring: S45C
- Tightening screw : SCM435

DRJ/DRP	63	30	30
Product NO	Size	Inner diameter : D1	Inner diameter : D2

			ъ.	. ,	,			Torque	Thrust	Moment	Tightenir	ng Screw	Max.	Mass
Product NO.			DIM	ension(mi	m)			Torque	THIUSE	of inertia	Size	Torque	RPM	IVIdSS
	Α	D1	D1	L	L1	L2	P	N·m	kN	kg ⋅m²	$N \times M$	N·m	min ⁻¹	kg
53-16-16		16	16					78.5		3.08×10 ⁻⁴				0.80
53-20-16		20	10					76.5		3.00 ^ 10 4				0.76
53-20-20	53	20	20	56	60	64	41	98.1	9.8	3.05 × 10 ⁻⁴	4×M6	17.7	14,500	0.77
53-22-20		22	20					90.1		2.90 × 10-4				0.72
53-22-22		22	22					118		2.30 / 10				0.72
58-25-20			20					98.2		4.18×10-4				0.87
58-25-22	58	25	22	58	62	66	45	118	9.8	4.10 × 10	4×M6	17.7	12,500	0.86
58-25-25		25	25					127		4.13×10 ⁻⁴				0.84
63-30-25	63	30	25	- 60	64	68	50.5	157	11.8	6.18×10 ⁻⁴	4×M6	17.7	12,000	1.05
63-30-30	03	30	30	00	04	00	50.5	186	11.0	6.10 × 10 ⁻⁴	4 ^ IVIO	17.7	12,000	1.01
68-35-25			25					157		8.70×10 ⁻⁴				1.14
68-35-28			28					177		8.75×10 ⁻⁴	4×M6			1.11
68-35-30	68	35	30	60	64	68	56	186	11.8	0.73 × 10 4		17.7	10,000	1.17
68-35-32			32					206		8.78×10 ⁻⁴	6×M6			1.15
68-35-35			35					226		8.80 × 10 ⁻⁴	4×M6			1.12
73-35-38		35	38					226		1.40 × 10−3				1.51
73-38-42	73	38	42	70	74	78	60	245	12.8	1.40 × 10−3	4×M6	17.7	9,000	1.53
73-42-42		42	42					275		1.66 × 10−3				1.41
78-48-48	78	48	48	70	74	78	66	461	18.7	1.85 ×10−3	6×M6	17.7	8,000	1.50

- * The Max. RPM did not take into account the dynamic balance.
- * Please contact us for other dimension allowances.



DRS DRW DRA



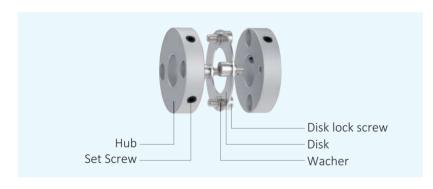
Features

- Disk type flexible coupling.
- Zero Backlash
- Stainless disks allow eccentricity, declination and end play.
- Forward and reverse are the same features.
- Outstanding Oil-resistance and Anti-chemical.
- A variety of sizes are available.

Structure (fastening type) and material

Set screw type

Clamp type





Please use a Homepage is the latest Data and CAD

- Hub : Aluminum alloy with high stiffness
- Hub surface treatment of hub : Alumite process
- Set screw : SCM435
- Tightening screw : SCM435
- Disk : Stainless steel
- Wacher : Stainless steel
- Plate : Aluminum alloy with high stiffness
- Plate surface treatment of plate : Alumite process
- Disk lock screw : SCM435

Circular disk application

- Apply circular disk pack for high responsiveness and low noise.



Coupling combination system

Туре	Sha	аре	Feature
DRS			- One single disk pack type - Excellent torsional rigidity and excellent response - Ideal for high-speed and high-precision positional environment.
DRW			 - Two disk packs type with plate. - Allow greater eccentricity, declination and endplay than single type. - High flexible function
DRA			- Two disk packs with plate, double type for distance.- Plate is longer than DRW type so it can transmit power at distant point.

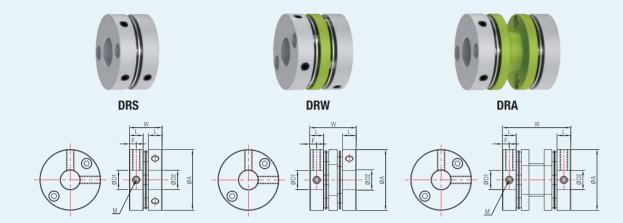
Usage

- Servo Motor
- Stepping Motor
- General wide use Motor
- Encoder
- Others

Others

- Do not re-assemble after disassemble randomly.
- You can order different types of hubs.
- You can specify the number of disks.

DRW	31	С	8	10
Product NO	Size	Fastening type	Inner diameter : D1	Inner diameter : D2

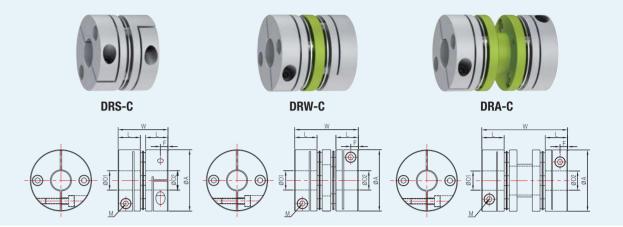


		D:			Tighteni	ng Screw	Rated.	Max.	Max.	Moment	Torsional			End	
Product NO.		Dimens	ion(mm)		Size	Torque	Torque	Torque	RPM	of inertia	Stiffness	Angle	Paralle	play	Mass
	Α	L	W	F	М	N·m	N·m	N·m	min ⁻¹	kg·m ²	N·m/rad	٥	mm	± mm	g
DRS-16	16	5.1	11.9	2.55	M2.5	0.5	0.6	1.2	30,000	1.8×10^{-7}	270	0.5	0.02	0.1	5
DRW-16	16	5.1	15.6	2.55	M2.5	0.5	0.6	1.2	30,000	2.2×10^{-7}	200	2	0.05	0.2	6
DRWL-16	16	5.1	17.6	2.55	M2.5	0.5	0.6	1.2	30,000	2.6×10^{-7}	200	2	0.05	0.2	7
DRS-19	19	6.1	13.9	3.05	M3	0.7	1	2	20,000	3.0×10^{-7}	600	1	0.02	0.1	6
DRW-19	19	6.1	17.8	3.05	M3	0.7	1	2	20,000	5.3×10^{-7}	450	2	0.05	0.2	10
DRWL-19	19	6.1	20.8	3.05	M3	0.7	1	2	20,000	5.8×10^{-7}	450	2	0.05	0.2	11
DRS-22	22	6.2	14.8	3.1	M4	1.7	1.3	2.6	20,000	6.9×10^{-7}	600	1	0.02	0.2	10
DRW-22	22	6.2	19.9	3.1	M4	1.7	1.3	2.6	20,000	1.0×10^{-6}	500	2	0.12	0.2	16
DRWL-22	22	6.2	21.5	3.1	M4	1.7	1.3	2.6	20,000	1.1×10^{-6}	500	2	0.12	0.2	17
DRA-22	22	6.2	27.5	3.65	M4	1.7	1.3	2.6	20,000	1.3×10^{-6}	500	2	0.12	0.2	18
DRS-26	26	7.3	17	3.65	M4	1.7	2	4	20,000	2.0×10^{-6}	1,300	1	0.02	0.2	20
DRW-26	26	7.3	25.3	3.65	M4	1.7	2	4	20,000	2.3×10^{-6}	800	2	0.15	0.2	28
DRA-26	26	7.3	31.2	3.65	M4	1.7	2	4	20,000	3.2×10^{-6}	800	2	0.15	0.2	32
DRS-31	31.8	7.2	17.1	3.6	M4	1.7	3	6	15,000	4.4×10^{-6}	1,700	1	0.02	0.2	30
DRW-31	31.8	7.2	24.2	3.6	M4	1.7	3	6	15,000	4.3×10^{-6}	1,300	2	0.15	0.2	30
DRWL-31	31.8	7.2	29.2	3.6	M4	1.7	3	6	15,000	5.5×10^{-6}	1,300	2	0.15	0.2	38
DRA-31	31.8	7.2	35.7	3.6	M4	1.7	3	6	15,000	5.5×10^{-6}	1,300	2	0.15	0.2	38

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- * The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- * Please contact us for other dimension allowances.

Product NO.							Standard	Inner Dia	meter(D1	L,D2)(mm)						
Floudet No.	3	4	4.5	5	6	6.35	7	8	9	9.525	10	11	12	12.7	14	15
DR□-16	•	•	•	•												
DR□-19	•	•	•	•	•											
DR22		•	•	•	•	•	•	•								
DR□-26				•	•	•	•	•	•	•	•					
DR□-31				•	•	•	•	•	•	•	•	•	•	•	•	0

- * We encourage h7 for tolerance of attachment axis
- * The inner diameter of ullet marked is the standard diameter.
- * The axis penetration is impossible on the O marked because of the inner diameter of the disk.
- * Iner diameter 8 of DRA26 is not allowed to pass through the shaft.
- * For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- * We can supply with Key way.

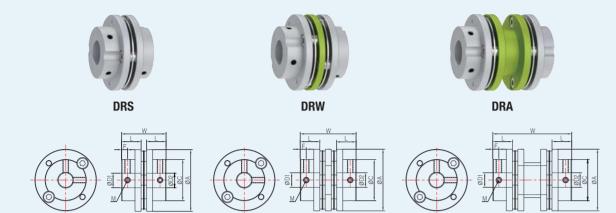


Product NO.		Dimensi	ion(mm)		Tightenii	ng Screw Torque	Rated. Torque	Max. Torque	Max. RPM	Moment of inertia	Torsional Stiffness	Angle	Paralle	End play	Mass
Troduct No.	Α	L	W	F	M	N·m	N · m	N · m	min-1	kg · m ²	N·m/rad	0	mm	± mm	g
DRS-16C	16	7.8	17.3	2.65	M2	0.5	0.6	1.2	30,000	2.6 × 10 ⁻⁷	270	0.5	0.02	0.1	7
DRW-16C	16	7.8	21	2.65	M2	0.5	0.6	1.2	30,000	3.3×10^{-7}	200	2	0.05	0.2	9
DRWL-16C	16	7.8	23	2.65	M2	0.5	0.6	1.2	30,000	3.7×10^{-7}	200	2	0.05	0.2	10
DRS-19C	19	8.7	19.1	3.05	M2.5	1	1	2	20,000	4.0×10^{-7}	600	1	0.02	0.1	8
DRW-19C	19	8.7	23	3.05	M2.5	1	1	2	20,000	7.4×10^{-7}	450	2	0.05	0.2	14
DRWL-19C	19	8.7	26	3.05	M2.5	1	1	2	20,000	7.9×10^{-7}	450	2	0.05	0.2	15
DRS-22C	22	8.7	19.8	2.9	M2.5	1	1.3	2.6	20,000	1.0 × 10 ⁻⁶	600	1	0.02	0.2	15
DRW-22C	22	8.7	24.9	2.9	M2.5	1	1.3	2.6	20,000	1.3×10^{-6}	500	2	0.12	0.2	18
DRWL-22C	22	8.7	26.5	2.9	M2.5	1	1.3	2.6	20,000	1.4×10^{-6}	500	2	0.12	0.2	19
DRA-22C	22	8.7	32.5	2.9	M2.5	1	1.3	2.6	20,000	1.5×10^{-6}	500	2	0.12	0.2	20
DRS-26C	26	10.7	23.8	3.4	M3	2	2	4	20,000	2.4×10^{-6}	1,300	1	0.02	0.2	15
DRW-26C	26	10.7	32	3.4	M3	2	2	4	20,000	3.4×10^{-6}	500	2	0.15	0.2	34
DRA-26C	26	10.7	38	3.4	M3	2	2	4	20,000	3.9×10^{-6}	800	2	0.15	0.2	39
DRS-31C	31.8	11.6	25.9	3.9	M3	2	3	6	15,000	5.8×10^{-6}	1,700	1	0.02	0.2	40
DRW-31C	31.8	11.6	33	3.9	M3	2	3	6	15,000	7.5×10^{-6}	1,300	2	0.15	0.2	52
DRWL-31C	31.8	11.6	38	3.9	M3	2	3	6	15,000	8.8×10^{-6}	1,300	2	0.15	0.2	60
DRA-31C	31.8	11.6	44.5	3.9	M3	2	3	6	15,000	8.8×10^{-6}	1,300	2	0.15	0.2	60
DRS-39C	39	13.6	30.9	4.45	M4	4	6	12	10,000	1.6×10^{-5}	2,300	1	0.02	0.6	70
DRW-39C	39	13.6	38.6	4.45	M4	4	6	12	10,000	2.1×10^{-5}	1,800	2	0.15	0.6	95
DRWL-39C	39	13.6	44	4.45	M4	4	6	12	10,000	2.4×10^{-5}	1,800	2	0.15	0.6	110
DRA-39C	39	13.6	56	4.45	M4	4	6	12	10,000	3.0×10^{-5}	1,800	2	0.15	0.6	120
DRSC-42C	42.5	13.6	30.9	4.75	M4	4	8	16	10,000	3.2×10^{-5}	3,500	2	0.02	0.6	95
DRWC-42C	42.5	13.6	45.2	4.75	M4	4	8	16	10,000	3.3×10^{-5}	3,500	2	0.15	0.6	120
DRSC-47C	47	16.5	37	4.75	M4	4	13	26	10,000	5.4×10^{-5}	6,000	2	0.02	0.6	140
DRWC-47C	47	16.5	49.1	4.75	M4	4	13	26	10,000	5.5×10^{-5}	6,000	2	0.15	0.6	160

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- * The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- $\ensuremath{^{*}}$ Please contact us for other dimension allowances.

Product NO.									Stan	dard Inr	er Dia	meter(D1,D2)(mm)								
Product NO.	3	4	4.5	5	6	6.35	7	8	9	9.525	10	11	12	12.7	14	15	15.875	16	17	18	19	20
DR16C	•	•	•	•																		
DR□-19C	•	•	•	•	•																	
DR22C		•	•	•	•	•	•	•														
DR□-26C				•	•	•	•	•	•	•	•											
DR31C				•	•	•	•	•	•	•	•	•	•	•	•	0						
DR□-39C					•	•	•	•	•	•	•	•	•	•	•	•	•	•				
DR42C					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0	0	
DR□-47C								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

- * We encourage h7 for tolerance of attachment axis
- * The inner diameter of marked is the standard diameter.
- * The axis penetration is impossible on the O marked because of the inner diameter of the disk.
- * Iner diameter 8 of DRA26C is not allowed to pass through the shaft.
- st For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- * We can supply with Key way.



		Dim	nension(n	mm)		Tighteni	ng Screw	Rated.	Max.	Max.	Moment	Torsional	Angle	Paralle	End	Mass
Product NO.		IIIU	iension(ii	11111)		Size	Torque	Torque	Torque	RPM	of inertia	Stiffness	Aligie	Paralle	play	IVIdSS
	Α	C	L	W	F	M	N⋅m	N⋅m	N⋅m	min ⁻¹	kg ⋅m²	N·m/rad	0	mm	$\pm\text{mm}$	g
DRS-42	42.5	28.5	13.5	30.7	4.15	M4	1.7	8	16	10,000	1.7 × 10⁻⁵	6,000	1	0.02	0.3	65
DRWA-42	42.5	28.5	13.5	38.4	4.15	M4	1.7	8	16	10,000	2.1 × 10 ⁻⁵	3,500	2	0.3	0.6	84
DRWB-42	42.5	28.5	13.5	44.9	4.15	M4	1.7	8	16	10,000	2.4×10^{-5}	3,500	2	0.3	0.6	94
DRAA-42	42.5	28.5	13.5	49.3	4.15	M4	1.7	8	16	10,000	2.7×10^{-5}	3,500	2	0.3	0.6	105
DRAB-42	42.5	28.5	13.5	57.7	4.15	M4	1.7	8	16	10,000	2.8 × 10 ⁻⁵	3,500	2	0.3	0.6	110
DRAC-42	42.5	28.5	13.5	67.1	4.15	M4	1.7	8	16	10,000	2.9 × 10 ⁻⁵	3,500	2	0.3	0.6	115
DRS-47	47	32.3	14	32	4.6	M5	4	13	26	10,000	2.7 × 10 ^{−5}	6,000	1	0.02	0.3	91
DRWA-47	47	32.3	14	40	4.6	M5	4	13	26	10,000	3.4 × 10 ⁻⁵	4,000	2	0.3	0.6	115
DRWB-47	47	32.3	14	44.1	4.6	M5	4	13	26	10,000	3.6 × 10 ⁻⁵	4,000	2	0.3	0.6	120
DRAA-47	47	32.3	14	57	4.6	M5	4	13	26	10,000	4.2 × 10 ^{−5}	4,000	2	0.3	0.6	140
DRAB-47	47	32.3	14	83	4.6	M5	4	13	26	10,000	4.7 × 10−5	4,000	2	0.3	0.6	160
DRS-54	54	38	19	42.6	6.5	M5	4	23	46	10,000	4.9 × 10⁻⁵	13,000	1	0.02	0.3	130
DRW-54	54	38	19	55.1	6.5	M5	4	23	46	10,000	6.7 × 10 ⁻⁵	9,000	2	0.3	0.8	177
DRAA-54	54	38	19	70	6.5	M5	4	23	46	10,000	9.0 × 10 ⁻⁵	9,000	2	0.3	0.8	230
DRAB-54	54	38	19	84	6.5	M5	4	23	46	10,000	1.1 × 10 ⁻⁴	9,000	2	0.3	8.0	250
DRS-64	64	47.5	26	56.9	8.8	M8	15	32	64	10,000	1.8 × 10 ⁻⁴	20,000	1	0.02	0.4	292
DRW-64	64	47.5	26	74	8.8	M8	15	32	64	10,000	2.2 × 10 ⁻⁴	13,000	2	0.3	0.8	373
DRA-64	64	47.5	26	89.2	8.8	M8	15	32	64	10,000	2.7 × 10 ⁻⁴	13,000	2	0.3	0.8	450

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- * The Max. RPM did not take into account the dynamic balance.
- $\ensuremath{^{*}}$ Mass and moment of inertia are calculated based on maximum inner diameter.
- * Please contact us for other dimension allowances.

Product NO.										Standa	ırd Inr	er Dia	meter(D1,D2	2)(mm)								
Froduct No.	6	6.35	7	8	9	9.525	10	11	12	12.7	14	15	15.875	16	18	19	20	21	22	24	25	26	28	30
DR□-42	•	•	•	•	•	•	•	•	•	•	•	•												
DR□-47				•	•	•	•	•	•	•	•	•	•	•	•	•								
DR□-54							•	•	•	•	•	•	•	•	•	•	•							
DR□-64									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0

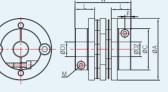
- * We encourage h7 for tolerance of attachment axis
- * The inner diameter of marked is the standard diameter.
- * The axis penetration is impossible on the O marked because of the inner diameter of the disk.
- * For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- * We can supply with Key way.

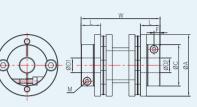












Product NO.		Dim	nension(n	nm)		Tighten Size	Torque	Rated. Torque	Max. Torque	Max. RPM	Moment of inertia	Torsional Stiffness	Angle	Paralle	End play	Mass
	Α	С	L	W	F	М	N - m	N·m	N·m	min-1	kg · m²	N·m/rad	٥	mm	± mm	g
DRS-42C	42.5	28.5	13.5	30.7	4.15	М3	2	8	16	10,000	1.7 × 10 ⁻⁵	6,000	1	0.02	0.3	65
DRWA-42C	42.5	28.5	13.5	38.4	4.15	M3	2	8	16	10,000	2.1 × 10 ⁻⁵	3,500	2	0.3	0.6	84
DRWB-42C	42.5	28.5	13.5	44.9	4.15	М3	2	8	16	10,000	2.4 × 10 ⁻⁵	3,500	2	0.3	0.6	94
DRAA-42C	42.5	28.5	13.5	49.3	4.15	M3	2	8	16	10,000	2.7 × 10 ⁻⁵	3,500	2	0.3	0.6	105
DRAB-42C	42.5	28.5	13.5	57.7	4.15	М3	2	8	16	10,000	2.8 × 10 ⁻⁵	3,500	2	0.3	0.6	110
DRAC-42C	42.5	28.5	13.5	67.1	4.15	M3	2	8	16	10,000	2.9 × 10 ⁻⁵	3,500	2	0.3	0.6	115
DRS-47C	47	32.3	17	38	5.4	M4	4	13	26	10,000	3.2 × 10 ⁻⁵	6,000	1	0.02	0.3	108
DRWA-47C	47	32.3	17	46	5.4	M4	4	13	26	10,000	3.6 × 10 ⁻⁵	4,000	2	0.3	0.6	120
DRWB-47C	47	32.3	17	50.1	5.4	M4	4	13	26	10,000	3.9 × 10 ⁻⁵	4,000	2	0.3	0.6	132
DRAA-47C	47	32.3	17	63	5.4	M4	4	13	26	10,000	4.5 × 10 ⁻⁵	4,000	2	0.3	0.6	152
DRAB-47C	47	32.3	17	89	5.4	M4	4	13	26	10,000	5.1 × 10 ⁻⁵	4,000	2	0.3	0.6	172
DRS-54C	54	38	21.5	47.6	6.85	M5	8	23	46	10,000	5.5 × 10 ⁻⁵	13,000	1	0.02	0.3	145
DRWA-54C	54	38	21.5	60.1	6.85	M5	8	23	46	10,000	7.2 × 10 ⁻⁵	9,000	2	0.3	0.8	192
DRAA-54C	54	38	21.5	75	6.85	M5	8	23	46	10,000	9.0 × 10 ⁻⁵	9,000	2	0.3	0.8	240
DRAB-54C	54	38	21.5	88.9	6.85	M5	8	23	46	10,000	1.1 × 10 ⁻⁴	9,000	2	0.3	0.8	266
DRS-64C	64	47.5	26	56.9	7.8	M6	13	32	64	10,000	1.8 × 10 ⁻⁴	20,000	1	0.02	0.4	292
DRW-64C	64	47.5	26	74	7.8	M6	13	32	64	10,000	2.2 × 10 ⁻⁴	13,000	2	0.3	0.8	373
DRA-64C	64	47.5	26	89.2	7.8	M6	13	32	64	10,000	2.7 × 10 ⁻⁴	13,000	2	0.3	0.8	450

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- * The Max. RPM did not take into account the dynamic balance.
- $\ensuremath{^{*}}$ Mass and moment of inertia are calculated based on maximum inner diameter.
- * Please contact us for other dimension allowances.

Product NO.									Sta	andard	Inner	Diame	ter(D1,	D2)(m	m)								
Frouuct No.	6	6.35	7	8	9	9.525	10	11	12	12.7	14	15	15.875	16	18	19	20	21	22	24	25	26	28
DR□-42C	•	•	•	•	•	•	•	•	•	•	•	•											
DR□-47C				•	•	•	•	•	•	•	•	•	•	•	•	•							
DR□-54C							•	•	•	•	•	•	•	•	•	•	•						
DR□-64C									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

- * We encourage h7 for tolerance of attachment axis
- * The inner diameter of marked is the standard diameter.
- * The axis penetration is impossible on the O marked because of the inner diameter of the disk.
- * For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- * We can supply with Key way.





DRS-C

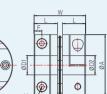
COUPLING

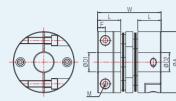


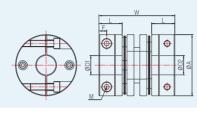




DRW-C







DRA-C

		Dimens	ion(mm)		Tighteni	ng Screw	Rated.	Max.	Max.	Moment	Torsional	Angle	Paralle	End	Mass
Product NO.		Difficits	1011(111111)		Size	Torque	Torque	Torque	RPM	of inertia	Stiffness	Aligic	Taranc	play	IVIGSS
	Α	L	W	F	М	N·m	N·m	N · m	min ⁻¹	kg · m ²	N·m/rad	٥	mm	$\pm\mathrm{mm}$	g
DRSC-54C	54	19	42.6	6	M5	8	23	46	10,000	9.8×10^{-5}	11,000	1	0.02	8.0	200
DRWB-54C	54	19	52.1	6	M5	8	23	46	10,000	1.1×10^{-4}	9,000	2	0.3	8.0	250
DRWC-54C	54	19	58	6	M5	8	23	46	10,000	1.2×10^{-4}	9,000	2	0.3	8.0	280
DRSC-64C	64	26	56.84	7.8	M6	13	32	64	10,000	2.3×10^{-4}	20,000	1	0.02	0.4	368
DRWB-64C	64	26	74	7.8	M6	13	32	64	10,000	3.0×10^{-4}	13,000	2	0.3	0.8	478
DRWC-64C	64	26	84	7.8	M6	13	32	64	10,000	3.5×10^{-4}	13,000	2	0.3	8.0	546
DRS-80C	79	30	66.4	10	M8	30	75	150	10,000	7.5×10^{-4}	40,000	1	0.02	1.2	800
DRW-80C	79	30	82	10	M8	30	75	150	10,000	8.4×10^{-4}	34,000	2	0.5	1.2	900
DRA-80C	79	30	98	10	M8	30	75	150	10,000	8.5×10^{-4}	34,000	2	0.5	1.2	1,000
DRS-90C	94.5	30.4	68.2	9.3	M8	30	150	300	10,000	1.2 × 10−3	60,000	1	0.02	1.4	930
DRW-90C	94.5	30.4	98	9.3	M8	30	150	300	10,000	1.8 × 10−3	38,000	2	0.5	1.4	1,350
DRS-100C	104.5	30.6	71	9.5	M8	30	220	440	10,000	2.2 × 10 ⁻³	70,000	1	0.02	1.4	1,300
DRW-100C	104.5	30.6	102.5	9.5	M8	30	220	440	10,000	2.9 × 10−3	50,000	2	0.5	1.4	1,700

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- * The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- * Please contact us for other dimension allowances.

Product NO.										Standa	ard Inr	er Dia	meter	(D1,D2	2)(mm)									
Product No.	10	11	12	12.7	14	15	15.875	16	18	19	20	21	22	24	25	26	28	30	32	35	40	42	45	50
DR54C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0									
DR -64C			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0	0					
DR□-80C						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
DR□-90C											•	•	•	•	•	•	•	•	•	•	•	•	•	
DR□-100C											•	•	•	•	•	•	•	•	•	•	•	•	•	•

- * We encourage h7 for tolerance of attachment axis
- * The inner diameter of marked is the standard diameter.
- * The axis penetration is impossible on the O marked because of the inner diameter of the disk.
- * For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- * We can supply with Key way.

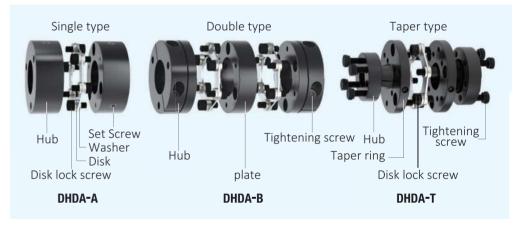
DHDA Series



Features

- High-rigidity power coupling with hexagonal disk pack.
- High-rigidity aluminum material, low inertia and zero backlash.
- Suitable for high speed rotation.
- It is assembled by using exclusive jig so it ensures high concentricity.
- It is possible to specify the entire length, and offers various options such as key way processing.

Structure (fastening type) and material



- Hub : Aluminum alloy with high stiffness
- Tightening screw : SCM435
- Disk: Stainless steel
- Disk lock screw : SCM435
- Plate & Taper ring Surface treatment of plate : Alumite process
- CNC Lathes
- Machining center
- Robot
- Semiconductor manufacturing equipment
- Others

- Hub surface treatment of hub : Alumite process
- Set screw : SCM435
- Washer : Steel
- Plate & Taper ring : Aluminum alloy with high stiffness

Order Method (Order Example)

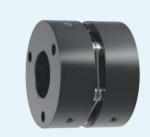
Usage

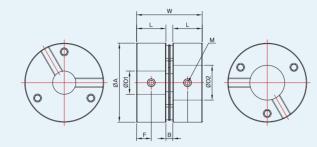
DHDA	58	Α	S	S	14	15
Product NO	Size	Connection type	Hub fastening type : D1	Hub fastening type : D2	Inner diameter : D1	Inner diameter : D2



Set screw type

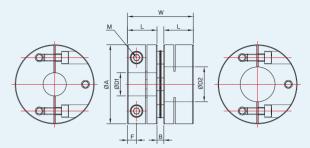
COUPLING





Clamp type





		Din	nension(n	nm)		Tighteni	ng Screw	Allowable	Max.	Moment	Torsional	Paralle	Angle	End	
Product NO.		וווט	nension(n	1111)		Size	Torque	Torque	RPM	of inertia	Stiffness	raialle	Aligie	play	Mass
	Α	L	W	В	F	M	N·m	N·m	min ^{−1}	kg·m ²	N·m/rad	mm	0	± mm	g
DHDA-58A-S	58	19.4	44.2	5.4	9.7	M6	7	60	10,000	0.13×10 ⁻³	104,000	0.02	1	0.3	258
DHDA-68A-S	68	25.3	56.5	5.9	12.65	M8	15	90	10,000	0.31×10 ⁻³	240,000	0.02	1	0.5	445
DHDA-78A-S	78	30	67.7	7.7	15	M8	15	200	10,000	0.67×10−3	310,000	0.02	1	0.5	736
DHDA-88A-S	88	30.8	69.9	8.3	15.4	M8	15	250	10,000	1.08×10 ⁻³	520,000	0.02	1	0.6	895
DHDA-98A-S	98	32.65	75.5	10.2	16.3	M10	30	450	10,000	1.86×10−3	740,000	0.02	1	0.65	1,255
DHDA-108A-S	108	33.75	77.7	10.2	16.85	M10	30	500	10,000	2.68×10⁻³	860,000	0.02	1	0.7	1,423

^{*} Mass and moment of inertia are calculated based on maximum inner diameter.

^{*} Please contact us for other dimension allowances.

Product NO.									Stand	dard In	ner Dia	meter(D1,D2)	(mm)								
Product NO.	10	12	14	15	16	18	20	22	24	25	26	28	30	32	35	40	42	45	48	50	55	60
DHDA-58A-S	•	•	•	•	•	•	•	•	•	•												
DHDA-68A-S				•	•	•	•	•	•	•	•	•	•	•								
DHDA-78A-S						•	•	•	•	•	•	•	•	•	•							
DHDA-88A-S							•	•	•	•	•	•	•	•	•	•	•	•				
DHDA-98A-S										•	•	•	•	•	•	•	•	•	•			
DHDA-108A-S													•	•	•	•	•	•	•	•	•	•

^{*} We encourage h7 for tolerance of attachment axis

		Din	nension(n	am)		Tighteni	ng Screw	Allowable	Max.	Moment	Torsional	Paralle	Angle	End	
Product NO.		DIII	iension(n	1111)		Size	Torque	Torque	RPM	of inertia	Stiffness	raialle	Aligie	play	Mass
	Α	L	W	В	F	M	N - m	N - m	min ^{−1}	kg ⋅m²	N · m/rad	mm	0	± mm	g
DHDA-58A-C	58	19.4	44.2	5.4	6.5	M6	13	60	10,000	0.12×10^{-3}	104,000	0.02	1	0.3	246
DHDA-68A-C	68	25.3	56.5	5.9	7.75	M6	13	90	10,000	0.29×10 ⁻³	240,000	0.02	1	0.5	415
DHDA-78A-C	78	30	67.7	7.7	9.5	M8	30	200	10,000	0.64×10^{-3}	310,000	0.02	1	0.5	703
DHDA-88A-C	88	30.8	69.9	8.3	9.5	M8	30	250	10,000	1.02×10 ⁻³	520,000	0.02	1	0.6	859
DHDA-98A-C	98	32.65	75.5	10.2	10	M10	50	450	10,000	1.79×10− ³	740,000	0.02	1	0.65	1,233
DHDA-108A-C	108	33.75	77.7	10.2	10.5	M10	50	500	10,000	2.56×10 ⁻³	860,000	0.02	1	0.7	1,377

^{*} Mass and moment of inertia are calculated based on maximum inner diameter.

^{*} Please contact us for other dimension allowances.

Product NO.									Stan	dard In	ner Dia	meter(D1,D2)	(mm)								
Product NO.	10	12	14	15	16	18	20	22	24	25	26	28	30	32	35	40	42	45	48	50	55	60
DHDA-58A-C	•	•	•	•	•	•	•	•	•	•												
DHDA-68A-C				•	•	•	•	•	•	•	•	•	•	•								
DHDA-78A-C						•	•	•	•	•	•	•	•	•	•							
DHDA-88A-C							•	•	•	•	•	•	•	•	•	•	•	•				
DHDA-98A-C										•	•	•	•	•	•	•	•	•	•			
DHDA-108A-C													•	•	•	•	•	•	•	•	•	•

^{*} We encourage h7 for tolerance of attachment axis

^{*} The inner diameter of • marked is the standard diameter.

^{*} For non-standard inner diameters other than the above table, it is available separately. Please contact us.

^{*} We can supply with Key way

^{*} You can order with one side is clamp type and another side is Set screw type.

^{*} The inner diameter marked with ullet are supported as the standard diameter.

^{*} For non-standard inner diameters other than the above table, it is available separately. Please contact us.

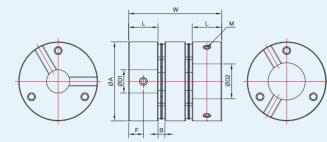
^{*} We can supply with Key way

^{*} You can order with one side is clamp type and another side is Set screw type.

Set screw type

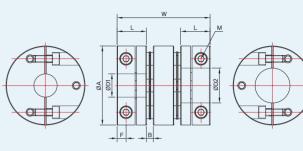
COUPLING





Clamp type





		Dir	nension(r	nm)		Tighteni	ing Screw	Allowable	Max.	Moment	Torsional	Paralle	Angle	End	
Product NO.		DII	ilension(i	,		Size	Torque	Torque	RPM	of inertia	Stiffness	raialic	Aligie	play	Mass
	Α	L	W	В	F	M	N · m	N·m	min⁻¹	kg ⋅ m²	N·m/rad	mm	0	± mm	g
DHDA-58B-S	58	19.4	62	5.4	9.7	M6	7	60	10,000	0.18×10^{-3}	52,000	0.2	2	0.6	356
DHDA-68B-S	68	25.3	80	5.9	12.65	M8	15	90	10,000	0.43×10 ⁻³	120,000	0.25	2	1	615
DHDA-78B-S	78	30	94	7.7	15	M8	15	200	10,000	0.94×10^{-3}	155,000	0.31	2	1	1,025
DHDA-88B-S	88	30.8	99.8	8.3	15.4	M8	15	250	10,000	1.55×10 ⁻³	260,000	0.32	2	1.2	1,271
DHDA-98B-S	98	32.65	108.5	10.2	16.3	M10	30	450	10,000	2.71 × 10 ⁻³	370,000	0.32	2	1.31	1,824
DHDA-108B-S	108	33.75	111	10.2	16.85	M10	30	500	10,000	3.89×10−3	430,000	0.34	2	1.4	2,067

^{*} Mass and moment of inertia are calculated based on maximum inner diameter.

^{*} Please contact us for other dimension allowances.

Product NO.									Stand	dard Ini	ner Dia	meter(D1,D2)	(mm)								
Floudet NO.	10	12	14	15	16	18	20	22	24	25	26	28	30	32	35	40	42	45	48	50	55	60
DHDA-58B-S	•	•	•	•	•	•	•	•	•	•												
DHDA-68B-S				•	•	•	•	•	•	•	•	•	•	•								
DHDA-78B-S						•	•	•	•	•	•	•	•	•	•							
DHDA-88B-S							•	•	•	•	•	•	•	•	•	•	•	•				
DHDA-98B-S										•	•	•	•	•	•	•	•	•	•			
DHDA-108B-S													•	•	•	•	•	•	•	•	•	•

^{*} We encourage h7 for tolerance of attachment axis

		Dir	mension(n	nm)		Tighteni	ng Screw	Allowable	Max.	Moment	Torsional	Paralle	Angle	End	
Product NO.		DII	nension(n	,		Size	Torque	Torque	RPM	of inertia	Stiffness	i ai aiic	Aligie	play	Mass
	Α	L	W	В	F	M	N - m	N · m	min ^{−1}	kg · m ²	N · m/rad	mm	0	± mm	g
DHDA-58B-C	58	19.4	62	5.4	6.5	M6	13	60	10,000	0.17×10^{-3}	52,000	0.2	2	0.6	344
DHDA-68B-C	68	25.3	80	5.9	7.75	M6	13	90	10,000	0.41×10^{-3}	120,000	0.25	2	1	587
DHDA-78B-C	78	30	94	7.7	9.5	M8	30	200	10,000	0.90×10^{-3}	155,000	0.31	2	1	992
DHDA-88B-C	88	30.8	99.8	8.3	9.5	M8	30	250	10,000	1.50×10 ⁻³	260,000	0.32	2	1.2	1,235
DHDA-98B-C	98	32.65	108.5	10.2	10	M10	50	450	10,000	2.65×10⁻³	370,000	0.32	2	1.3	1,803
DHDA-108B-C	108	33.75	111	10.2	10.5	M10	50	500	10,000	3.76×10^{-3}	430,000	0.34	2	1.4	2,021

^{*} Mass and moment of inertia are calculated based on maximum inner diameter.

^{*} Please contact us for other dimension allowances.

Product NO.									Stand	dard In	ner Dia	meter([D1,D2])(mm)								
Product NO.	10	12	14	15	16	18	20	22	24	25	26	28	30	32	35	40	42	45	48	50	55	60
DHDA-58B-C	•	•	•	•	•	•	•	•	•	•												
DHDA-68B-C				•	•	•	•	•	•	•	•	•	•	•								
DHDA-78B-C						•	•	•	•	•	•	•	•	•	•							
DHDA-88B-C							•	•	•	•	•	•	•	•	•	•	•	•				
DHDA-98B-C										•	•	•	•	•	•	•	•	•	•			
DHDA-108B-C													•	•	•	•	•	•	•	•	•	•

^{*} We encourage h7 for tolerance of attachment axis

^{*} The inner diameter marked with ullet are supported as the standard diameter.

^{*} For non-standard inner diameters other than the above table, it is available separately. Please contact us.

^{*} We can supply with Key way

^{*} You can order with one side is clamp type and another side is Set screw type.

^{*} The inner diameter marked with ullet are supported as the standard diameter.

^{*} For non-standard inner diameters other than the above table, it is available separately. Please contact us.

^{*} We can supply with Key way

^{*} You can order with one side is clamp type and another side is Set screw type.

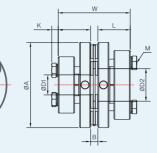


Single type

COUPLING





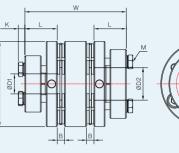




Double type









		Din	nension(m	nm)		Tighteni	ing Screw	Allowable	Max.	Moment	Torsional	Paralle	Angle	End	Mass
Product NO.				,		Size	Torque	Torque	RPM	of inertia	Stiffness	raranc	, in gic	play	IVIdSS
	Α	L	W	В	K	M	N·m	N·m	min ^{−1}	kg ⋅m²	N·m/rad	mm	0	±mm	g
DHDA-58A-T	58	20.1	45.6	5.4	4.6	M5	8	60	15,000	0.11×10^{-3}	104,000	0.02	1	0.3	236
DHDA-68A-T	68	25.8	57.5	5.9	5.2	M6	13	90	15,000	0.28×10 ⁻³	240,000	0.02	1	0.5	419
DHDA-78A-T	78	30.8	69.3	7.7	5.2	M6	13	200	14,000	0.50×10^{-3}	310,000	0.02	1	0.5	618
DHDA-88A-T	88	30.8	69.9	8.3	5.2	M6	13	250	14,000	1.81 × 10 ⁻³	520,000	0.02	1	0.6	733
DHDA-98A-T	98	30.8	71.8	10.2	5.2	M6	13	450	13,000	1.37×10 ⁻³	740,000	0.02	1	0.65	1,030
DHDA-108A-T	108	30.8	71.8	10.2	5.2	M6	13	500	13,000	2.09×10 ⁻³	860,000	0.02	1	0.7	1,184

 $[\]ensuremath{^{*}}$ Mass and moment of inertia are calculated based on maximum inner diameter.

^{*} Please contact us for other dimension allowances.

Product NO.									St	andard	Inner	Diame	ter(D1	,D2)(m	m)								
Product NO.	10	12	14	15	16	18	20	22	24	25	26	28	30	32	35	36	40	42	45	48	50	55	60
DHDA-58A-T	•	•	•	•	•	•	•	•	•	•													
DHDA-68A-T				•	•	•	•	•	•	•	•	•	•	•									
DHDA-78A-T						•	•	•	•	•	•	•	•	•	•	•							
DHDA-88A-T							•	•	•	•	•	•	•	•	•	•	•	•	•				
DHDA-98A-T									•	•	•	•	•	•	•	•	•	•	•	•			
DHDA-108A-T													•	•	•	•	•	•	•	•	•	•	•

^{*} We encourage h7 for tolerance of attachment axis

Product NO.		Dir	mension(n	nm)		Tighteni Size	ing Screw	Allowable Torque	Max. RPM	Moment of inertia	Torsional Stiffness	Paralle	Angle	End play	Mass
	Α	L	W	В	K	М	N m	N·m	min ⁻¹	kg · m²	N - m/rad	mm	0	± mm	g
DHDA-58B-T	58	20.1	63.4	5.4	4.6	M5	8	60	15,000	0.16×10 ⁻³	52,000	0.2	2	0.6	333
DHDA-68B-T	68	25.8	81	5.9	5.2	M6	13	90	15,000	0.40×10−3	120,000	0.25	2	1	591
DHDA-78B-T	78	30.8	95.6	7.7	5.2	M6	13	200	14,000	0.77×10−3	155,000	0.31	2	1	908
DHDA-88B-T	88	30.8	99.8	8.3	5.2	M6	13	250	14,000	1.28×10− ³	260,000	0.32	2	1.2	1,110
DHDA-98B-T	98	30.8	104.8	10.2	5.2	M6	13	450	13,000	2.23×10 ⁻³	370,000	0.38	2	1.3	1,610
DHDA-108B-T	108	30.8	105.1	10.2	5.2	M6	13	500	13,000	3.29×10− ³	430,000	0.38	2	1.4	1,826

 $[\]ensuremath{^{*}}$ Mass and moment of inertia are calculated based on maximum inner diameter.

^{*} Please contact us for other dimension allowances.

Product NO.									Sta	andard	Inner	Diame	ter(D1	,D2)(m	m)								
Product NO.	10	12	14	15	16	18	20	22	24	25	26	28	30	32	35	36	40	42	45	48	50	55	60
DHDA-58B-T	•	•	•	•	•	•	•	•	•	•													
DHDA-68B-T				•	•	•	•	•	•	•	•	•	•	•									
DHDA-78B-T						•	•	•	•	•	•	•	•	•	•	•							
DHDA-88B-T							•	•	•	•	•	•	•	•	•	•	•	•	•				
DHDA-98B-T									•	•	•	•	•	•	•	•	•	•	•	•			
DHDA-108B-T													•	•	•	•	•	•	•	•	•	•	•

^{*} We encourage h7 for tolerance of attachment axis

^{*} The inner diameter marked with • are supported as the standard diameter.

^{*} For non-standard inner diameters other than the above table, it is available separately. Please contact us.

^{*} You can order with one side is clamp type and another side is Set screw type.

^{*} The inner diameter marked with \bullet are supported as the standard diameter.

^{*} For non-standard inner diameters other than the above table, it is available separately. Please contact us.

 $[\]ensuremath{^{*}}$ You can order with one side is clamp type and another side is Set screw type.

DISK COUPLING Techincal data

DISK COUPLING Technology Data

Precautions when using

COUPLING

The concentricity of the left and right internal diameters of the coupling is precisely assembled using a dedicated jig. If strong impact is applied to the coupling from outside, assembly precision may not be maintained and there is a possibility of damage during use. Please pay enough attention.

- 1) The operating temperature range is -30 $^{\circ}$ ~ + 100 $^{\circ}$. Although it has water resistance and oil resistance, use at extreme temperature is a factor of deformation and please avoid.
- 2) Since the disk is made of thin stainless steel plate, handle it carefully to avoid damage.
- 3) Be sure to observe the tolerances of parallel, angular and axial.
- 4) Be sure to fasten the clamping bolt or set screw with the specified torque.

Mounting

- 1) Make sure that the clamping bolt or set screw is loosened and remove foreign matter and oil on the inner surface of the shaft and coupling. (Please wipe off the oil component by using degreasing agent etc.)
- 2) Compressed to disk pack when inserting coupling. Do not apply excessive force such as tensile. Be especially careful when inserting a coupling on the motor side and then inserting the coupling on the mating shaft, which may result in inadequate compressive force.
- 3) Make sure that the coupling smoothly moves in the axial and rotational directions with the clamping bolt or set screw loosened. If it does not move smoothly, adjust the centering of the two axes again. Although this method is recommended as a simple confirmation method of the left and right concentricity, if the confirmation method like this is not possible, check the degree of assembly by the management of the machine parts quality and other methods.
- 4) The relative use axis is a circular axis principle, but when using a key shape axis other than a circular axis, pay attention to the axis attachment position as shown below. Depending on the mounting position of the shaft, the coupling body may be damaged and shaft gripping force may be reduced. To meet the coupling performance sufficiently, we recommend using it on a circular shaft. (Figures 2 and 3)
- 5) The length at which the shaft is inserted into the coupling is up to the length of the hub (dimension table L). Do not interfere with the Disk plate and other axes.
- 6) After confirming the action of force such as compression or tension in the axial direction, tighten the tightening screw or set screw. When fastening the tightening screw or set screw, tighten it within the specified torque range with a calibrated torque wrench.

Disassembly

- 1) Check that the torque and axial load are not applied to the coupling. Torque may be applied to the coupling, especially when the safety brake device is in operation. Please check before dismantling.
- 2) Loosen all clamping bolts or set screws.
- 3) The fastening to the shaft will be released until it is fully released.



Figure



Figure2(The wrong method)



Figure3(The Correct method)

DISK COUPLING Technology Data

Precautions when using

Circular disk pack



Rectangle disk pack



Hexagon disk pack

The key way machining

The keyway machining is available upon request. It is designed to transmit the torque by the frictional engagement by the clamp mechanism, the allowable torque of the coupling, Do not use it in excess. Please also note the following points before using

- 1) The key must be less than or equal to the keyway width. When the key is used as a press-in, when attaching or during operation. It may be damaged.
- 2) Please contact us for the position of the keyway machining.
- 3) When adopting Js9 class tolerance, it is possible to tighten the coupling when assembling to the shaft. Be careful not to apply compression.
- 4) If the fitting of the key and the keyway is set too loosely, rattling may occur and dust may be generated, Also, be careful not to lose the key.
- 5) If a set screw is added to the keyway, the clamp function will be lowered. There is a risk of loose set screws. Also, it is not recommended because the structure of the hub may deteriorate and the coupling may be damaged.

Precautions for ball screw system

The servo motor may oscillate according to the gain adjustment of the servo motor. The oscillation of the servomotor is mainly caused by the natural frequency of the entire ball screw system and the problem of the electric control system. This problem is caused by adjustment of the whole system such as torsional stiffness and inertia of coupling and ball screw, and by adjusting the torsional natural frequency of the mechanical system or adjusting it by the electric control tuning function of the servo motor (filter function).

Difference in rigidity according to disk shape

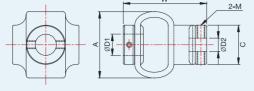
DURI disk coupling has a circular shape, a square shape, and a hexagon shape
The DHDA Series employs hexagonal disks. Since the hub coupling is coupled to the disk via
disk, the hexagonal disks that deliver the torque with six bolts are used to provide high
torsional rigidity, while the flexibility is somewhat higher Please refer to the selection.

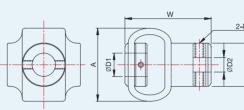


CONNECTING SHAFT

DRFC-29, 38







Features

- Integrated flexible coupling
- Absorbs excellently large eccentricity,
- declination and end play
- Absorbs shock and vibration.
- Low moment of inertia.

- Stepping Motor
 - General wide use Motor
 - Others

Structure (fastening type) and material



- Hub : S45C
- Hub surface treatment : nickel plating
- Spacer : Polyurethane

Order Method (Order Example)

DRFC	38	8	12
Product NO	Size	Inner diameter : D1	Inner diameter : D2

Product NO.	[Dimension(mm	n)	Tighteni Size	ng Screw Torque	Max. RPM	Allowable Torque	Angle	Paralle	End play	Mass
	Α	W	С	M	N · m	min-1	N·m	٥	mm	mm	g
DRFC-29	25	28	18	M4	1.7	3,000	0.35	10	2	1.5	20
DRFC-38	32	35	22.5	M4	1.7	3,000	1.35	10	2.5	2	40
DRFC-48	43	50	26	M5	4	3,000	1.8	12	2.5	2	60
DRFC-54	50	59	29.5	M6	7	3,000	4.5	12	3	2	140

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- * The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- $\ensuremath{^{*}}$ Please contact us for other dimension allowances.

Product NO.				Standard I	nner Diameter(D	1,D2)(mm)			
Froduct No.	4	5	6	8	10	12	14	15	16
DRFC-29	•	•	•	•	•				
DRFC-38			•	•	•	•			
DRFC-48				•	•	•	•		
DRFC-54					•	•	•	•	•

- * We encourage h7 for tolerance of attachment axis
- * The inner diameter of marked is the standard diameter.

CONNECTING SHAFT COUPLING

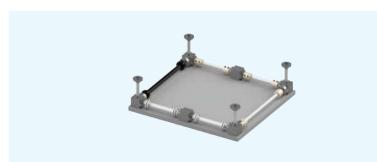


Features

- The balancing is excellent.
- Increase the convenience and save the cost through the use this shaft.
- In case of clamp type, it is possible to supply split type.
- In case of split type, it is easy to assemble and disassemble.
- There are many kinds such as Disk or Jaw.
- We can supply it with the length which client request.
- X Please ask to our company about delivery time.

Application







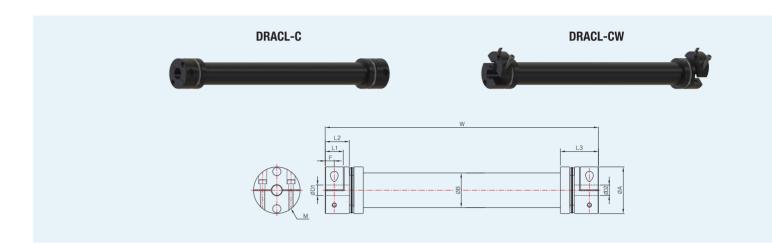
- Due to aluminum alloy with high stiffness, moment of inertia is low.
- Increase the convenience and save cost through the use this shaft.
- In case of clamp type, it is possible to supply as split type
- In case of split type, it is easy to assemble and disassemble.
- We can supply it with the length which client request.

Structure (fastening type) and material



- Hub : Aluminum alloy with high stiffness
- Connecting shaft : Aluminum alloy with high stiffness
- Hub & Connecting shaft surface treatment : Alumite process
- Disk : Stainless steel
- Washer : Stainless steel
- Tightening screw : SCM435

DRACL	54	С	15	20	W1,000
Product NO	Size	Fastening type	Inner diameter : D1	Inner diameter : D2	Total length



		١	Dimens	ion(n	nm)			W	Tightenir	ng Screw	Rated.	Max.	Max.	Moment	of inertia	Torsional	Stiffness	Anglo	Paralle	End
Product NO.					,		Mix	Max	Size	Torque	Torque	Torque	RPM	Coupling	Pipe/m	Coupling	Pipe/m	Aligie	raialle	play
	Α	В	F	L1	L2	L3	mm	mm	M	N·m	N⋅m	N⋅m	min ⁻¹	kg⋅m²	kg·m ²	N·m/rad	N·m/rad	0	mm/m	mm
DRACL-31 C	31.8	30	5.5	11	15.5	27.78	88	2,000	M4	4	4	8	1,500	8.8×10 ⁻⁶	1.36×10 ⁻⁴	1,300	1,380	2	0.15	0.2
DRACL-42C	42.5	40	8.5	17	24	38.3	113	2,000	M5	8	10	20	1,500	2.9×10 ⁻⁵	3.43×10 ⁻⁴	3,500	3,800	2	0.3	0.6
DRACL-54C	54	40	10.5	21	28	44.14	131	2,000	M6	13	30	60	1,500	9.8×10 ⁻⁵	3.43×10 ⁻⁴	11,000	3,800	2	0.5	1.2
DRACL-64C	64	55	13	26	35	52.44	154	2,000	M8	30	42	84	1,500	1.1×10 ⁻⁴	1.23×10 ⁻³	13,000	11,150	2	0.5	1.6
DRACL-80C	79	55	15	30	40	61	175	2,000	M10	50	98	196	1,500	8.5×10 ⁻⁴	1.23×10 ⁻³	34,000	11,150	2	0.5	2.0
DRACL-90C	94.5	78	18	36	48.5	72.7	202	1,400	M10	50	200	400	1,500	1.8×10⁻³	5.07×10 ⁻³	38,000	37,840	2	0.5	2.0
DRACL-100C	104.5	78	20	40	51.6	78	217	1,400	M10	50	265	530	1,500	2.9×10 ⁻³	5.07×10 ⁻²	50,000	37,840	2	0.5	2.0

- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- * The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- * Please contact us for other dimension allowances.

Product NO.													St	tanda	ard In	ner [Diame	eter(I	D1,D	2)(m	m)											
Product NO.	5	6	6.35	7	8	: !	9	9.525	10	11	12	12.7	14	15	15.875	16	17	18	19	20	22	24	25	26	28	30	32	35	40	42	45	50
DRACL-31 C	•	•	•	•	•	,	•	•	•	•	•	•	•																			
DRACL-42C		•	•	•	•	, (•	•	•	•	•	•	•	•	•	•	•	•	•	•												
DRACL-54C									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
DRACL-64C											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•							
DRACL-80C														•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
DRACL-90C																				•	•	•	•	•	•	•	•	•	•	•	•	
DRACL-100C																				•	•	•	•	•	•	•	•	•	•	•	•	•

- * We encourage h7 for tolerance of attachment axis
- * The inner diameter of marked is the standard diameter.
- * For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- * We can supply with Key way.



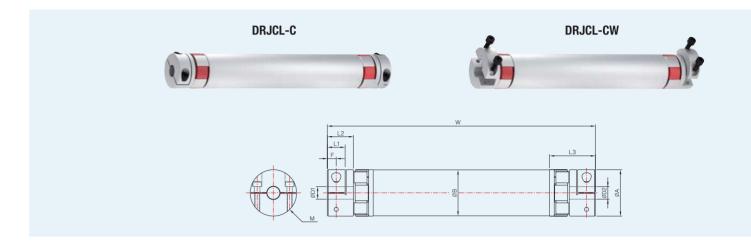
- Due to aluminum alloy with high stiffness, moment of inertia is low.
- Increase the convenience and save cost through the use this shaft.
- In case of clamp type, it is possible to supply as split type
- In case of split type, it is easy to assemble and disassemble.
- We can supply it with the length which client request.

Structure (fastening type) and material



- Hub: Aluminum alloy with high stiffness
- Connecting shaft : Aluminum alloy with high stiffness
- Hub & Connecting shaft surface treatmenvt: Alumite process
- Sleeve : Polyurethane
- Tightening screw : SCM435

DRJCL	55	С	RD	15	20	W1,000
Product NO	Size	Fastening type	Sleeve type	Inner diameter : D1	Inner diameter : D2	Total length



		D	imensi	ion(mr	m)			W	Tightenii	ng Screw	Rated.	Max.	Max.	Moment	of inertia	Torsiona	l Stiffness	Anglo	Paralle	End
Product NO.					,		Mix	Max	Size	Torque	Torque	Torque	RPM	Coupling	Pipe/m	Coupling	Pipe/m	Aligie	raialle	play
	Α	В	F	L1	L2	L3	mm	mm	M	N⋅m	N⋅m	N·m	min ⁻¹	kg · m ²	kg·m ²	N·m/rad	N·m/rad	0	mm/m	mm
DRJCL-30C□RD	30	30	5.5	11	15.5	33	98	2,000	M4	4	14	28	1,500	7.5×10^{-6}	1.36×10 ⁻⁴	220	1,380	2	5	±1.0
DRJCL-40C□RD	40	40	8.5	17	25	47	130	2,000	M5	8	18	36	1,500	3.9×10 ⁻⁵	3.43×10 ⁻⁴	2,000	3,800	2	5	±1.0
DRJCL-55 C□RD	55	55	10.5	21	30	54	175	2,000	M6	13	60	120	1,500	1.6×10 ⁻⁴	1.23×10⁻³	4,000	11,150	2	5	±1.0
DRJCL-65 C□RD	65	55	13	26	35	63	200	2,000	M8	30	180	360	1,500	3.8×10 ⁻⁴	1.23 ×10−3	8,000	11,150	2	5	±1.0
DRJCL-80C□RD	80	55	15	30	40	84	245	2,000	M10	50	325	650	1,500	1.0×10 ⁻³	1.23 ×10⁻³	20,000	11,150	2	5	±1.0
DRJCL-95 C□RD	95	78	18	36	50	92	270	1,400	M10	50	450	900	1,500	2.8×10 ⁻³	5.07×10 ⁻³	30,000	37,840	2	5	±1.0
DRJCL-100C RD	104	78	20	40	56	101	300	1,400	M12	90	600	1,200	1,500	4.6 ×10−3	5.07 × 10 ⁻²	40,000	37,840	2	5	±1.0

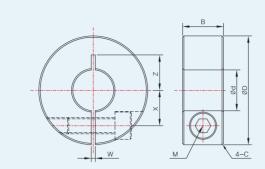
- * The coupling torque may be limited by the retention force of the shaft fastening part, so check the 'Standard inner diameter'.
- * The Max. RPM did not take into account the dynamic balance.
- * Mass and moment of inertia are calculated based on maximum inner diameter.
- * Please contact us for other dimension allowances.

Dundunt NO										Star	ndard	Inner I	Diame	ter(D:	1,D2)(mm)									
Product NO.	7	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	26	28	30	32	35	40	45	50	55	60
DRJCL-30C□RD	•	•	•	•	•	•	•																		
DRJCL-40C□RD		•	•	•	•	•	•	•	•	•															
DRJCL-55 C□RD						•	•	•	•	•	•	•	•	•	•	•	•								
DRJCL-65C□RD								•	•	•	•	•	•	•	•	•	•	•	•	•					
DRJCL-80C RD												•	•	•	•	•	•	•	•	•	•				
DRJCL-95 C□RD													•	•	•	•	•	•	•	•	•	•	•		
DRJCL-100C RD														•	•	•	•	•	•	•	•	•	•	•	•

- * We encourage h7 for tolerance of attachment axis
- * The inner diameter of marked is the standard diameter.
- * For non-standard inner diameters other than the above table, it is available separately. Please contact us.
- * We can supply with Key way.

Slit type





Split type

Structure (fastening type) and material

Product NO.	Material	Surface treatment
DRSS	Aluminum alloy with high stiffness	White Alumite Process
DRSS-B	Aluminum alloy with high stiffness	Black Alumite Process
DRSS-S	S45C	Black Phosphate Coating
DRSS-N	\$45C	Electroless Nickel Plating
DRSS-SUS	SUS304	

Order Method (Order Example)

DRSS	10	12
Product NO	d	В

Product NO.			Dimensio	on(mm)			Tightening screw
Product No.	d	D	В	W	Х	Z	М
	4	18	8	1	5	3.5	M3
	5	20	8	1	6	6	M3
	6	20	8	1	6	6.5	M3
	8	25	10	1.5	8	9	M4
	10	35	15	1.5	10	12	M6
	12	35	15	1.5	11	12	M6
DRSS	13	35	15	1.5	11.5	12	M6
DRSS-B	15	40	15	1.5	13	13	M6
DRSS-S	16	40	15	1.5	13	13	M6
DRSS-N	17	40	15	1.5	13	13	M6
DRSS-SUS	18	45	15	1.5	15	15	M6
	20	45	15	1.5	15	15	M6
	25	50	15	1.5	18	18	M6
	30	55	15	1.5	20	18	M6
	35	60	15	2	23	21	M6
	40	70	18	2	26	23	M8
	50	85	22	3	32	28	M10

^{*} Please contact us for other dimension allowances.

Structure (fastening type) and material

Product NO.	Material	Surface treatment
DRSD	Aluminum alloy with high stiffness	White Alumite Process
DRSD-B	Aluminum alloy with high stiffness	Black Alumite Process
DRSD-S	S45C	Black Phosphate Coating
DRSD-N	S45C	Electroless Nickel Plating
DRSD-SUS	SUS304	

Order Method (Order Example)

DRSD	10	12
Product NO	d	В

Due door NO			Dimension(mm)			Tightening screw
Product NO.	d	D	В	W	Х	М
	4	18	8	1	5	M3
	5	20	8	1	6	M3
	6	20	8	1	6	M3
	8	25	10	1.5	8	M4
	10	35	15	1.5	10	M6
	12	35	15	1.5	11	M6
DRSD	13	35	15	1.5	11	M6
DRSD-B	15	40	15	1.5	13	M6
DRSD-S	16	40	15	1.5	13	M6
DRSD-N	17	40	15	1.5	13	M6
DRSD-SUS	18	45	15	1.5	15	M6
	20	45	15	1.5	15	M6
	25	50	15	1.5	18	M6
	30	55	15	1.5	20	M6
	35	60	15	2	23	M6
	40	70	18	2	26	M8
	50	85	22	3	32	M10

^{*} Please contact us for other dimension allowances.

DURI LOCKING ELEMENT Line up contents

LOCKING ELEMENT



The Locking element of Durimitec Co., Ltd. Is a power transmission component by surface pressure and it is used instead of KEY type power system.

Therefore, there is no need to process the key way on the shaft and hub, which has the advantage of greatly improving the workability of the designer as well as the manufacturing site.

Our locking elements are available in a variety of sizes, ranging from third-party products and general purpose low-end models to special-size locking elements.



LOCKING ELEMENT Techincal data

LOCKING ELEMENT Technical data

Features

The Duri Locking elements provides users an opportunity to easily penetrate into spacers on the axis and hub, and a potential to transmit high torques. Also, its axial direction can be easy to adjust.

The product can give advantages such as improved designer's workability and working environment, as well as heightened strength on the key-free parts.

The Locking Element has common types compatible with other products, and can have extraordinary types in stock.

For user's convenience, it has been customized in size and use.

The Duri Locking Element is available for key-free power transmission on the axis and hub.

Absence of key way helps improve more strength on its parts and provide higher efficiency with the power.

The Locking Element can be used to tighten each part against the force on the axis(FA)

The Locking Element is available for tightening the moving axes and sprocket wheels, the moving axes and gears, and for transmitting the power against the moving torques (MT).

It can be used as a rigid coupling by making a direct contact between axes.

General cautions in suing the Locking Element

For individual caution, see the page of each model No.

For transfer thrust values, it is illustrated how to clamp the lock with a torque used as a standard bolt. Values for the maximum usable torque can be used less than the ones indicated depending on each model No.

If higher transmission or transfer torques are required, the bolts to be used can be tightened less than the maximum torque, but increased pressure allows for selecting the materials used for the shaft and the hub.

If the materials used exceed the yield point, make sure to check how the pressure works in order to prevent the worst skids from giving any damage to the machine.

Check to see if pressures on the yield point are described on the pages of the catalog.

It is recommended that materials to be used be treated with heat for user's safety.

If impact load is given to the product, the safety factor can be calculated at 3~5 times

If the shaft or the hub has no enough pressure, low transfer may result in skidding or the ring being fixed on the shaft, so make sure to check how the pressure works.

When starting the assembly work, oil can be lightly applied on the area where there is any friction between bolts and the rings connected to the body.

Lock of oil may lead to keeping transfer torques steady and as a result, the oil must be carefully checked.

Make sure that the oil will be EP addictive-free in it.

Tighten the bolts diagonally with a wrench tool as the following steps.

Basically, the bolts can be equally tightened to 25% of the standard torque first, then to 50% and finally to 100% respectively with each bolt locked once.

Loosen all bolts when disassembling.

Disassembling

Prepare and insert the disassembly be

Prepare and insert the disassembly bolt that fits into the disassembly screw hole. At this point, tighten the disassembly bolts diagonally to break them down.

Be careful not to have the Locking element deformed and its bolts sagged after being assembled and disassembled.

The deformation or sagging will make the Lock become obsolete, so it must be replaced with new one.

LOCKING ELEMENT Technical data

Power Conversion Efficiency Transmission Efficiency n As the consumption power is selected, the supply power can be calculated based on the transmission efficiency.

With the Locking element chosen, the materials mush keep a yield point to which the pressure is allowable, so that the Lock can hold a larger capacity of transfer torque than the power measured on the supplied side.

- $Po[kW]=PS[kW]/\eta$

Torque T[N·m]= $9550 \cdot K \times Po[kW]/N[min^{-1}]$

shows the power, torque and revolution No. on the moving shaft.

The following expression

Force of Trust: Ft(N)

 $Fr[N] = K \cdot Ft[N]$

K : Selection coefficient depending on the power fluctuation

If there is a variable in the power transferred, the Locking element will be selected, which has a larger capacity of common transfer torque than the value multiplied by the next coefficient K, depending on how the power can change or whether there is an inertia or not.

No fluctuation to Less fluctuation: K=1.0~2.5

For light shocks, intermediate variable load or inertia: $K=2.0^{\circ}3.5$

For strong shocks, vibrations or big inertia: K=3.0~5.0

Used for calculation when working on combined loads.

If combined loads (force of thrust + revolving torque) are given to the Power Lock, the following expression will be applied to select the Lock, which has a larger capacity of transfer torque than this value after changing them into combined torque (Mh).

$$Mh = \sqrt{T^2 + \left(\frac{Fr \cdot d}{2}\right)^2} [N \cdot m]$$

d: diameter

the maximum inner diameter on the hollow axis.

If the Power Lock is used on the hollow axis, the value of inner diameter can be obtained from the following expression, which is more than the diameter on the hollow axis.

$$domax \le d \cdot \sqrt{\frac{\sigma \, 0.2 - (2 \cdot Ps \cdot C)}{\sigma \, 0.2}} - dbolt \, [mm]$$

domax: the maximum inner diameter on the shaft.

d: the diameter

 $\mbox{\sc Ps:}$ Pressure on the side of the axis

 σ 0.2: the yield point by which the materials are selected (see the table for yield strength)

 $\hbox{C: Application constant (see the table for application constants on the next page)}\\$

dbolt: the diameter of a bolt(if not used on the axis, dbolt = 0)

Assembling

Reusing

LOCKING

ELEMENT

LOCKING ELEMENT Techincal data

LOCKING ELEMENT Technical data

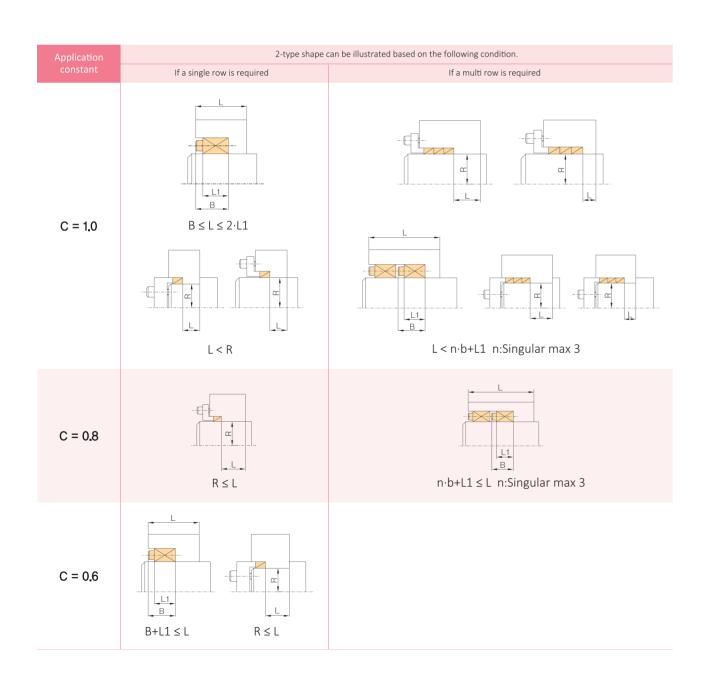
Calculating the minimum diameter on the hub

- Be sure that the outer diameter must be larger than the value above calculated.

- Min. diameter on the hub>
$$D \cdot \sqrt{\frac{\sigma 0.2 + (C \cdot Ph)}{\sigma 0.2 - (C \cdot Ph)}} + dbolt [mm]$$

- $\sigma 0.2$: the yield point by which the material is selected
- Ph : Pressure on the hub
- C : Application constant
- Dbolt : the nominal diameter of a bolt

X Note) if there is any hole on the bolt of a hub, dbolt is applied. If not, dbolt is equal to 0.



LOCKING ELEMENT Technical data

The yield point (yield strength) is set to σ 0.2.

The yie	The yield point σ0.2.		Makawial ayyah al	Designation
Mpa[N,	/mm²]	Kgf/mm ²	Material symbol	Designation
	119	12	FC200 Standard materia	al Standard material
	147	15	FC250 Standard materia	al Standard material
100~200			FC300 Standard materia	al Standard material
100~200	175	18	SC360 Standard materia	al Carbon cast steel
			SS330 Standard materia	al Rolled steel for general
	196	20	A2017-T4	Duralumin
	203	21	FC350 Standard materia	al Gray cast iron
	205	21	SC410 Standard materia	al Carbon cast steel
	203	21	SUS304 Standard materia	al Stainless
	206	21	S10C Standard materia	al Carbon steel for machine structure use
	200	21	SS400 Standard materia	al Rolled steel for general
	225	23	S15C Standard materia	al Carbon steel for machine structure use
	223	20	SC450 Standard materia	al Carbon cast steel
200~300	200 200		FCD400 Standard materia	al Nodular graphite cast iron
200~300	245	25	S20C Standard materia	al Carbon steel for machine structure use
	243	2.5	SC480 Standard materia	al Carbon cast steel
			SS490 Standard materia	al Rolled steel for general
	265	27	S25C Standard materia	al Carbon steel for machine structure use
	274	28	S30C Standard materia	
	280	29	FCD450 Standard materia	al Nodular graphite cast iron
	290	30	A2024-T4	Super duralumin
	294	30	S35C Standard materia	al Carbon steel for machine structure use
	320	33	FCD500 Standard materia	0 1
	325	33	S40C Standard materia	al Carbon steel for machine structure use
300~400	343	35	S45C Standard materia	al Carbon steel for machine structure use
000 400	365	37	S50C Standard materia	
	370	38	FCD600 Standard materia	Or
	570	30	S55C Standard materia	
400~	420	43	FCD700 Standard materia	al Nodular graphite cast iron

The materials can be selected based on the point by which each pressure on the side is bearable by checking the pressure given to the shaft and hub by transmission power and torques.

This value can be applied to calculate the minimum diameter on the hub and the maximum diameter on the axis hole.

SS400, S15C~S55C are written in bold type.

Standard materials listed in the table show that the materials used are not treated with heat.

Be careful not to have some metals with low yield strength even in the process of heat or surface treatment.

The products made of cast iron have no yield strength with them, so 70% of their tensile strength can be replaced with what a diameter on the hub has been calculated.

Duralumin extension (-T4), Treated with heat, has hardened for 4days, stored at room temperature.

Possible actions for bolt clamping and torques (DIN912 excluded)

Churu ath alass	Ma	Max tightening Torque					
Strength class (Size X Pitch)	8.8	10.9	12.9	8.8	10.9	12.9	
(Size X i iteli)	N	N	N	N · m	N · m	N · m	
M2.5 $ imes$ 0.45	1,500	2,140	2,570	0.7	1.0	1.2	
M3 × 0.5	2,230	3,180	3,820	1.3	1.8	2.2	
M4 × 0.7	3,900	5,450	6,550	2.9	4.1	4.9	
M5 × 0.8	6,350	8,950	10,700	6.0	8.5	10	
M6 ×1	9,000	12,600	15,100	10	14	17	
M8 × 1.25	16,500	23,200	27,900	25	35	41	
M10 $ imes$ 1.5	26,200	36,900	44,300	49	69	83	
M12 × 1.75	38,300	54,000	64,500	86	120	145	
M14 × 2	52,500	74,000	88,500	135	190	230	
M16 × 2	73,000	102,000	123,000	210	295	355	
M18 $ imes$ 2.5	88,000	124,000	148,000	290	405	485	
M20 $ imes$ 2.5	114,000	160,000	192,000	410	580	690	

LOCKING ELEMENT





The product has a potential for high torque transmission.

It has a hub stationary on the axis when assembled.

It is easy to mount and disassemble in adjusting its axial direction.

It can be disassembled by slightly loosening the bolts, but special bolts can facilitate

the disassembly when there is some rust on the surface.

Specifications

Surface roughness : Rt max $16\mu\text{m}$

Processing tolerance(Max): Shaft h11, Hub H11

Usage

It can be widely used. Pulley, Gear, Flywheel, Lever, Cam etc.

How to use

Cautions

The process of assembling or disassembling must be done based on how to use the product as described in the document.

Basically, degreasing cannot be allowed because it leads to low transmission torque.

Though DR200 can be used on a multi row, check the strength of the hub and combine torques in

Also, transmission torques will not be multiplied in proportion to what the sheets are used. Take

If it uses a double row: Transmission torque X 1.9

If it uses a triple row: Transmission torque X 2.7

Especially, If DR200 is combined with a double row, DR400 type(up to 100mm in size) can be

Adjustments can be made such as interlocking with the hub (for example, h7 on the shaft/H7 on the hub side).

It is recommended that the hub and the axis be treated with heat.

Lack of axial strength can result in low transmission torque and the ring being fixed on the shaft. Be careful not to have the product deformed and its bolts sagged after being assembled and disassembled.

The deformation or sagging will make it become obsolete, so it must be replaced with New one.

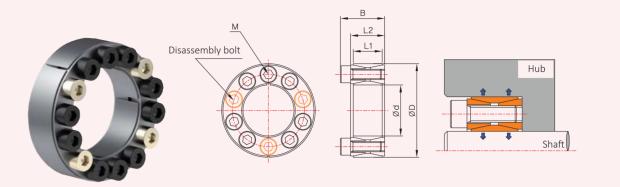
Order Method (Order Example)

DR200	20	47
Product NO	Inner diameter : d	Outer Diameter : D

* DR200 : Standard product

* DR200N : Electroless nickel plating product.

* DR200B : Black oxide film product



DB200(d v D)	0	Dimension(mn	n)	Tighten	ing screw(DIN	912/12.9)	Tra	nsfer	Surface pressure		N.4
DR200(d x D)	L1	L2	В	Size	Quantity	Tightening torque	Thrust	Torque	Shaft	Hub	Mass
mm	mm	mm	mm	M	Qty	N · m	kN	N · m	Мра	Мра	kg
14×42	17	20	26	M6	8	15	25	250	200	85	0.18
15×42	17	20	26	M6	8	15	25	250	200	85	0.18
17×44	17	20	26	M6	8	15	25	250	200	85	0.18
19×47	17	20	26	M6	8	15	29	270	225	95	0.20
20×47	17	20	26	M6	8	15	29	280	225	95	0.20
22×47	17	20	26	M6	8	15	29	310	210	95	0.20
24×50	17	20	26	M6	9	15	32	370	210	100	0.21
25×50	17	20	26	M6	9	15	32	400	200	100	0.21
28×55	17	20	26	M6	10	15	36	500	200	100	0.25
30×55	17	20	26	M6	10	15	36	530	185	100	0.25
32×60	17	20	26	M6	12	15	42	680	205	110	0.29
35×60	17	20	26	M6	12	15	43	750	190	110	0.28
38×65	17	20	26	M6	14	15	49	930	200	115	0.31
40×65	17	20	26	M6	14	15	49	980	190	115	0.31
42×75	20	24	32	M8	12	37	75	1,580	235	130	0.53
45×75	20	24	32	M8	12	37	76	1,700	220	130	0.52
48×80	20	24	32	M8	12	37	74	1,790	210	120	0.56
50×80	20	24	32	M8	12	37	75	1,870	200	120	0.55
55×85	20	24	32	M8	14	37	88	2,390	210	135	0.59
60×90	20	24	32	M8	14	37	88	2,610	190	125	0.63
65×95	20	24	32	M8	16	37	98	3,210	200	135	0.68
70×110	24	28	38	M10	14	70	135	4,709	266	168	1.22
75×115	24	28	38	M10	14	70	135	5,003	247	164	1.27
80×120	24	28	38	M10	14	70	135	5,298	240	160	1.34
85×125	24	28	38	M10	16	70	154	6,475	252	172	1.42
90×130	24	28	38	M10	16	70	154	6,867	238	164	1.49
95×135	24	28	38	M10	18	70	174	8,143	252	178	1.52
100×145	26	33	45	M12	14	127	196	9,750	252	174	2.1



Absence of key grooves on the hub and shaft helps improve more strength on its parts.

This can save energy and space for high torque transmission.

Much more transmission can be obtained regardless of how large the product is.

Easy adjustment of axial direction can improve operator's work efficiency. DR300& DR300C

have common types compatible with other products. D

R300F can be used without any flange designed.

If DR300(C) is combined on a multi row, DR300EF type (adjustable) can be recommended.

Specifications

Surface roughness: Rt max 16,4m

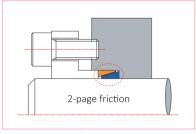
Processing tolerance(Max): d 40mm below, Shaft h6, hub H7

d 42mm Above, Shaft h8, Hub H8

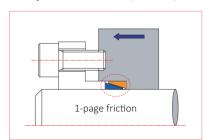
Usage

Pump, Cam, Sprocket, Pulley, etc.

Cautions



Transmission is applied the same as on the catalog. the hub unmovable(Feature 1)



the hub movable(Feature 2)

Adjustments can be made such as interlocking with the hub (for example, h7 on the shaft / H7

There are 2 types in terms of axial direction when assembled, whose features must be fully

If the hub moves with the product assembled, there must be enough space in front or back of

If there is no or insufficient space, the product can be difficult to disassemble or it can have low transmission torque.

It is recommended that the hub and the axis be treated with heat.

Lack of axial strength can result in low transmission torque and the ring being fixed on the

Be sure than larger screw holes must be placed on the flange than the bolts used to assemble the product.

The bolts can be selected, small in size and many in number, but less than the standard

DR300F can be applied on the flange as follows.

Though DR300F can be used on a multi row, check the strength of a hub, clamped torques and bearing pressure more closely.

Also, transmission torques will not be multiplied in proportion to what the sheets are used. Take care.

Please use a Homepage is the latest Data and CAD

DR300F



Features

DR300F is a DR300type(DR300, DR300C) and optimized standard coupling. It need not be designed again when using a DR300 type.

The diameter on the other side $\phi 10^{\sim} \phi 100$

Tolerance for diameters on the axis and the hub can be set depending on each

Specifications

Processing tolerance(Max): d 40mm below, Shaft h6, hub H7

d 42mm Above, Shaft h8, Hub H8

DR300EF



Features

DR300EF is suitable for thin parts with a narrow outer diameter on the hub. It can have space-saving, high torque transmission and adjustable attributes. With its inner race integrated with the flange and its bolts annexed, the product

has the same inner and outer diameters with DR300C.

The outer diameter on the hub can apply to the DR300 and 300C. Unlike them, it has an adjustable attribute, so the boss can apply to thin parts.

It has a good capacity of transmission, and DR300 being compatible with R300C in the inner and outer diameter offers DR300EF another usage on a multi row.

Specifications

Surface roughness: Rt max 16 µm Processing tolerance: Shaft h8, Hub H8

Usage

Pump, Cam, Sprocket, Pulley, etc.

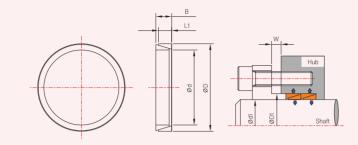
Cautions

the hub is movable despite its space-saving, high torque transmission and adjustable attributes.

How to use

if you want to know how to assemble and disassemble the product properly, refer to the relevant pages.





DR300 has a sealing effect because there are no slits found. Absence of slits requires initial clamping force until interlocked with the hub.

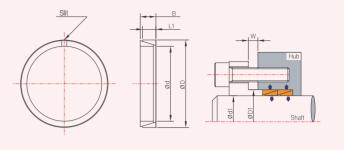
Order Method (Order Example)

DR300	20	25
Product NO	Inner diameter : d	Outer Diameter : D

Please use a Homepage is the latest Data and CAD

					Scale when u	using multi	
DR300/DR300C	Dimensi	ion(mm)	Mass	×1.0	×1.55	×1.85	×2.02
(d x D)		_	IVIGOS		W(Gap) when using		
W0 W0	L1	В		Row1	Row2	Row3	Row4
mm	mm	mm	kg	mm	mm	mm	mm
5×8	3.7	4.5	0.002	2.5	2.5	3.0	4.0
6×9	3.7	4.5	0.002	2.5	2.5	3.0	4.0
7×10	3.7	4.5	0.002	2.5	2.5	3.0	4.0
8×11	3.7	4.5	0.002	2.5	2.5	3.0	4.0
9×12	3.7	4.5	0.002	2.5	2.5	3.0	4.0
10×13	3.7	4.5	0.002	2.5	2.5	3.0	4.0
11×14	3.7	4.5	0.002	2.5	2.5	3.0	4.0
12×15	3.7	4.5	0.002	2.5	2.5	3.0	4.0
13×16	3.7	4.5	0.002	2.5	2.5	3.0	4.0
14×18	5.3	6.3	0.005	3.5	3.5	4.5	5.5
15×19	5.3	6.3	0.005	3.5	3.5	4.5	5.5
16×20	5.3	6.3	0.006	3.5	3.5	4.5	5.5
17×21	5.3	6.3	0.006	3.5	3.5	4.5	5.5
18×22	5.3	6.3	0.007	3.5	3.5	4.5	5.5
19×24	5.3	6.3	0.007	3.5	3.5	4.5	5.5
20×25	5.3	6.3	0.009	3.5	3.5	4.5	5.5
22×26	5.3	6.3	0.007	3.5	3.5	4.5	5.5
24×28	5.3	6.3	0.008	3.5	3.5	4.5	5.5
25×30	5.3	6.3	0.009	3.5	3.5	4.5	5.5
28×32	5.3	6.3	0.010	3.5	3.5	4.5	5.5
30×35	5.3	6.3	0.011	3.5	3.5	4.5	5.5
32×36	5.3	6.3	0.011	3.5	3.5	4.5	5.5
35×40	6.0	7.0	0.016	3.5	3.5	4.5	5.5
36×42	6.0	7.0	0.019	3.5	3.5	4.5	5.5
38×44	6.0	7.0	0.021	3.5	3.5	4.5	5.5
40×45	6.6	8.0	0.021	3.5	4.5	5.5	6.5
42×48	6.6	8.0	0.026	3.5	4.5	5.5	6.5
45×52	8.6	10.0	0.045	3.5	4.5	5.5	6.5
48×55	8.6	10.0	0.043	3.5	4.5	5.5	6.5
50×57	8.6	10.0	0.045	3.5	4.5	5.5	6.5
55×62	8.6	10.0	0.049	3.5	4.5	5.5	6.5
56×64	10.4	12.0	0.070	3.5	4.5	5.5	7.0
60×68	10.4	12.0	0.070	3.5	4.5	5.5	7.0
63×71	10.4	12.0	0.080	3.5	4.5	5.5	7.0
65×73	10.4	12.0	0.090	3.5	4.5	5.5	7.0
70×79	12.2	14.0	0.115	3.5	5.0	6.5	7.5
71×80	12.2	14.0	0.11	3.5	5.0	6.5	7.5
75×84	12.2	14.0	0.12	3.5	5.0	6.5	7.5
80×91	15.0	17.0	0.21	4.0	6.0	6.5	8.0
85×96	15.0	17.0	0.21	4.0	6.0	6.5	8.0
90×101	15.0	17.0	0.22	4.0	6.0	6.5	8.0
95×106	15.0	17.0	0.23	4.0	6.0	6.5	8.0
100×114	18.7	21.0	0.39	5.0	6.0	7.0	9.0





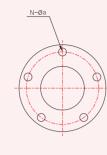
Features

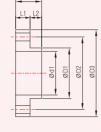
DR300C has any slit found, so initial clamping force is not required and its bolts are clamped.

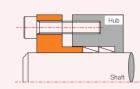
Order Method (Order Example) DR300C 20 25

Product NO Inner diameter : d Outer Diameter : D

DR300/DR300C			DR3	800					DR300C		
(d x D)	Pre load force	Tightening torque	Tran		Surface		Tightening torque		nsfer		pressure
mm	N N	N·m	Thrust kN	Torque N·m	Shaft Mpa	Hub Mpa	N·m	Thrust kN	Torque N·m	Shaft Mpa	Hub Mpa
5×8	9,780	2.5	0.8	2	113	71	1.0	1.2	3	169	105
6×9	8,910	2.5	1.0	3	117	78	1.0	1.2	4	140	94
7×10	8,310	2.5	1.1	4	114	80	1.2	1.4	5	144	101
8×11	8.040	2.5	1.2	5	105	76	1.2	1.4	6	126	92
9×12	7.650	3	1.8	8	147	110	2.0	2.4	11	187	140
10×13	7,000	3	2.0	10	142	110	2.0	2.4	12	168	130
11×14	7,000	3	2.0	11	130	102	2.0	2.4	13	153	120
12×15	7,000	3	2.0	12	119	95	2.0	2.4	14	140	112
13×16	6,500	3	2.1	14	116	94	2.5	2.9	19	162	132
14×18	11,000	6	3.2	23	115	90	4.1	3.9	27	138	107
15×19	10.800	6	3.3	25	109	86	4.1	3.9	29	129	102
16×20	10,000	6	3.4	28	108	86	4.1	3.9	31	121	97
17×21	9,600	6	3.5	30	104	84	4.1	3.9	33	114	92
18×22	9,150	6	3.6	33	101	83	4.1	3.9	35	107	88
19×24	12,500	10	5.2	50	138	109	9	7.0	67	185	147
20×25	12,000	10	5.3	53	133	107	9	7.0	70	176	141
22×26	9,000	10	6.0	66	136	115	9	7.0	77	160	135
24×28	8,400	10	6.1	73	128	109	9	7.0	84	147	126
25×30	10,000	10	5.8	72	116	96	9	7.0	88	141	117
28×32	7,500	10	6.3	88	113	99	9	7.0	98	126	110
30×35	8,600	10	6.1	91	101	87	9	7.0	105	117	101
32×36	7,900	10	8.2	132	129	114	9	8.8	141	137	122
35×40	10,000	10	9.8	171	123	108	9	11	185	133	117
36×42	11,700	10	9.4	169	115	99	9	11	190	130	111
38×44	11,000	10	9.5	181	111	96	9	11	200	123	106
40×45	13,900	25	12	238	120	106	24	14	287	144	128
42×48	15,550	25	12	242	110	97	24	14	302	137	120
45×52	28,300	25	16	365	111	96	24	22	485	148	128
48×55	24,700	25	24	588	157	137	24	29	690	185	161
50×57	23,600	25	25	618	153	134	24	29	718	177	155
55×62 56×64	21,700	25	25	692	141	125	24 50	29	790	161	143
50×64 60×68	29,500	50 50	29 29	804 875	131 124	114 109	50	35 35	986	160 150	140 132
63×71	27,500 26,500	50	29	926	119	109	50	35	1,056 1,109	143	126
65×73	25,500	50	30	962	116	108	50	35	1,144	138	123
70×79	31,000	50	40	1,404	125	110	50	47	1,144	146	129
70×79 71×80	31,000	50	40	1,404	123	109	50	47	1,667	146	129
75×84	34,700	50	39	1,425	114	109	50	47	1,760	136	122
75×64 80×91	48,000	50	48	2,214	106	94	50	59	2,347	130	114
85×96	45,500	50	60	2,568	126	111	50	70	2,993	147	130
90×101	43,600	50	61	2,737	120	107	50	70	3,169	138	123
95×106	41,300	50	61	3.059	114	107	50	70	3,345	131	117
100×114	61,000	90	92	4,611	131	115	100	117	5,869	166	146







LOCKING ELEMENT

No need extra design because of the standardized product. Specifications.

Usage

Applicable to DR300 and DR300C type.

Surface roughness: Rt max 16μm

Specifications Processing tolerance(Max): d 40mm below, Shaft h6, hub H7 Order Method

d 42mm Above, Shaft h8, Hub H8 (Order Example)

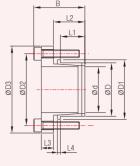
DR300F	20	25
Product NO	Inner diameter : d	Outer Diameter : D

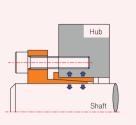
Please use a Homepage is the latest Data and CAD

DD2005/ L	Application				Dimer	nsion(mm)					Tightening scre	ew(DIN912/12.9)	
DR300F(d x D)	DR300/DR300C (d x D)	d1	D1	D2	D3	L1	L2	В	N	-φ a	Size	Quantity	Mass
mm	mm	mm	mm	mm	mm	mm	mm	mm	N	mm	М	Qty	kg
10×13	10×13	10.2	12.8	28	36	8	5	13	3	4.4	M4	3	0.06
11×14	11×14	11.2	13.8	28	36	8	5	13	3	4.4	M4	3	0.06
12×15	12×15	12.2	14.8	28	36	8	5	13	3	4.4	M4	3	0.06
13×16	13×16	13.2	15.8	28	36	8	5	13	3	4.4	M4	3	0.06
14×18	14×18	14.2	17.8	35	45	10	8	18	3	5.5	M5	3	0.12
15×19	15×19	15.2	18.8	35	45	10	8	18	3	5.5	M5	3	0.12
16×20	16×20	16.2	19.8	35	45	10	8	18	3	5.5	M5	3	0.12
17×21	17×21	17.2	20.8	35	45	10	8	18	3	5.5	M5	3	0.12
18×22	18×22	18.2	21.8	35	45	10	8	18	3	5.5	M5	3	0.12
19×24	19×24	19.2	23.8	40	50	10	8	18	4	5.5	M5	4	0.14
20×25	20×25	20.2	24.8	40	50	10	8	18	4	5.5	M5	4	0.14
22×26	22×26	22.2	25.8	40	50	10	8	18	4	5.5	M5	4	0.14
24×28	24×28	24.2	27.8	45	55	10	8	18	4	5.5	M5	4	0.16
25×30	25×30	25.2	29.8	45	55	10	8	18	4	5.5	M5	4	0.16
28×32	28×32	28.2	31.8	45	55	10	8	18	4	5.5	M5	4	0.18
30×35	30×35	30.2	34.8	50	60	10	8	18	5	5.5	M5	5	0.18
32×36	32×36	32.2	35.8	50	60	10	8	18	5	5.5	M5	5	0.19
35×40	35×40	35.2	39.8	58	68	10	8	18	6	5.5	M5	6	0.23
36×42	36×42	36.2	41.8	58	68	10	8	18	6	5.5	M5	6	0.23
38×44	38×44	38.2	43.8	58	68	10	8	18	6	5.5	M5	6	0.2
40×45	40×45	40.2	44.8	62	74	12	10	22	6	6.6	M6	6	0.3
42×48	42×48	42.2	47.8	62	74	12	10	22	6	6.6	M6	6	0.3
45×52	45×52	45.2	51.8	70	82	12	10	22	8	6.6	M6	8	0.36
48×55	48×55	48.2	54.8	70	82	12	10	22	8	6.6	M6	8	0.3
50×57	50×57	50.2	56.8	70	82	12	10	22	8	8.8	M8	8	0.38
55×62	55×62	55.2	61.8	78	90	12	10	22	8	8.8	M8	8	0.42
56×64	56×64	56.2	63.8	86	102	16	10	26	6	8.8	M8	6	0.73
60×68	60×68	60.2	67.8	86	102	16	10	26	6	8.8	M8	6	0.77
63×71	63×71	63.2	70.8	92	108	16	10	26	6	8.8	M8	6	0.82
65×73	65×73	65.2	72.8	92	108	16	10	26	6	8.8	M8	6	0.8
70×79	70×79	70.3	78.7	98	114	16	12	28	8	8.8	M8	8	0.90
71×80	71×80	71.3	79.7	98	114	16	12	28	8	8.8	M8	8	0.90
75×84	75×84	75.3	83.7	104	120	16	12	28	8	8.8	M8	8	0.96
80×91	80×91	80.3	90.7	110	130	20	12	32	10	11	M10	10	1.45
85×96	85×96	85.3	95.7	116	136	20	12	32	12	11	M10	12	1.53
90×101	90×101	90.3	100.7	120	140	20	12	32	12	11	M10	12	1.56
95×106	95×106	95.3	105.7	126	146	20	12	32	12	11	M10	12	1.7
100×114	100×114	100.3	113.7	134	154	20	12	32	12	13	M12	12	1.9









Features

Same inside and outside diameter as that of DR300 and

DR300C type.

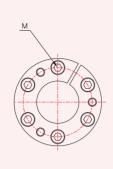
Centering function is available.

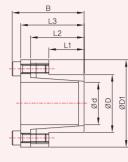
Surface roughness: Rt max 16µm Specifications Processing tolerance : Shaft h8, Hub H8 Usage

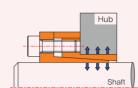
Pump, Cam, Sprocket, Pulley, etc.

DR300EF	20	25		
Product NO	Inner diameter : d	Outer Diameter : D		

DR300EF(d x D)	Dimension(mm)								Tightening screw(DIN912/12.9)			Transfer		Surface pressure		
	D1	D2	D3	L1	L2	L3	L4	В	Size	Quantity	Torque	Thrust	Torque	Shaft	Hub	Mass
mm	mm	mm	mm	mm	mm	mm	mm	mm	M	Qty	N · m	kN	N · m	Mpa	Мра	kg
5×8	8	15	21.5	7	9.5	4	-	16.5	M3	3	1.9	1.69	5	200	134	0.013
6×9	9	16	22.5	7	9.5	4	-	16.5	M3	3	1.9	1.87	6	195	132	0.015
8×11	11	18	24.5	7	9.5	4	-	16.5	M3	3	1.9	2.12	9	190	123	0.017
10×13	16	22	30	11.5	14.5	5	1.5	23.5	M4	3	4.0	7.79	39	292	224	0.04
11×14	17	23	31	11.5	14.5	5	1.5	23.5	M4	3	4.0	7.79	43	266	209	0.04
12×15	18	24	32	11.5	14.5	5	1.5	23.5	M4	3	4.0	7.79	47	243	195	0.04
14×18	22	27	35	16.0	20.0	6	2.0	30.0	M4	4	4.0	10.40	73	209	163	0.06
15×19	23	28	36	16.0	20.0	6	2.0	30.0	M4	4	4.0	10.40	78	195	154	0.07
16×20	24	29	37	16.0	20.0	7	2.0	31.0	M4	6	4.0	15.60	124	273	219	80.0
17×21	25	30	38	16.0	20.0	7	2.0	31.0	M4	6	4.0	15.60	132	258	209	80.0
18×22	26	33	43	16.0	20.0	7	2.0	32.0	M5	4	8.3	17.10	154	267	218	0.10
19×24	28	35	45	16.0	20.0	7	2.0	32.0	M5	4	8.3	17.10	163	252	200	0.11
20×25	29	36	46	16.0	20.0	7	2.0	32.0	M5	4	8.3	17.10	171	240	192	0.12
22×26	30	38	48	16.0	20.0	7	2.0	32.0	M5	4	8.3	17.10	186	218	184	0.12
24×28	32	40	50	16.0	20.0	7	2.0	32.0	M5	4	8.3	17.10	206	200	172	0.12
25×30	34	42	52	16.0	20.0	7	2.0	32.0	M5	4	8.3	17.10	216	192	160	0.16
28×32	36	44	54	16.0	20.5	8	2.0	33.5	M5	6	8.3	25.60	353	257	224	0.16
30×35	39	47	57	16.0	20.5	8	2.0	33.5	M5	6	8.3	25.60	382	240	206	0.19
32×36	41	49	59	16.0	21.0	9	2.5	35.0	M5	6	8.3	25.60	412	224	200	0.20
35×40	45	53	63	17.5	22.5	9	2.5	36.5	M5	6	8.3	25.60	451	178	157	0.23
38×44	49	58	70	17.5	23.0	10	2.5	39.0	M6	6	13.7	36.10	686	231	200	0.33
40×45	50	59	71	20.0	25.5	10	2.5	41.5	M6	6	13.7	36.10	725	180	161	0.33
42×48	53	62	74	20.0	25.5	11	2.5	42.5	M6	8	13.7	48.00	1,010	229	201	0.40
45×52	58	69	84	25.0	31.5	13	3.0	52.5	M8	6	34.3	66.30	1,490	244	211	0.65
48×55	61	72	87	25.0	31.5	13	3.0	52.5	M8	6	34.3	66.30	1,600	228	199	0.68
50×57	63	74	89	25.0	31.5	13	3.0	52.5	M8	6	34.3	66.30	1,660	220	192	0.69
55×62	68	79	94	25.0	31.5	13	3.0	52.5	M8	6	34.3	66.30	1,820	199	176	0.74
60×68	75	86	101	27.0	34.0	13	3.5	55.0	M8	6	34.3	66.30	1,990	164	144	0.86
65×73	80	91	106	27.0	34.0	15	3.5	57.0	M8	8	34.3	88.50	2,870	201	179	1.10
70×79	86	97	112	31.0	38.0	15	3.5	61.0	M8	8	34.3	88.50	3,100	177	158	1.20
75×84	91	102	117	31.0	38.5	16	3.5	62.5	M8	10	34.3	111	4,150	207	185	1.30
80×91	99	110	125	34.0	42.0	17	4.0	67.0	M8	10	34.3	111	4,420	176	155	1.70
85×96	104	118	137	34.0	42.5	19	4.0	71.5	M10	8	67.6	141	5,980	212	187	2.20
90×101	109	123	142	34.0	42.5	19	4.0	71.5	M10	8	67.6	141	6,330	200	179	2.30
95×106	114	128	147	34.0	42.5	19	4.0	71.5	M10	8	67.6	141	6,680	189	170	2.40
100×114	122	136	155	42.0	50.5	20	4.0	80.5	M10	10	67.6	176	8,790	165	144	3







LOCKING ELEMENT

Small diameter hub can be fitted. Centering function is available.

It has a hub stationary on the axis when assembled.

Surface roughness: Rt max 16 Specifications Processing tolerance : Shaft h8, Hub H8 Usage

Pulley with small hub outer diameter, Sprocket, Gear etc.

Order Method (Order Example)

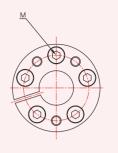
DR110	20	28
Product NO	Inner diameter : d	Outer Diameter : D

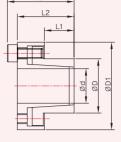
- * DR110 : Standard product
- * DR110N : Electroless nickel plating product

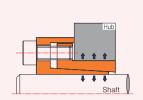
Please use a Homepage is the latest Data and CAD

DR110(d x D)		Di	imension(m	ım)		Tighteni	ng screw(DIN	1912/12.9)	Tra	nsfer	Surface	pressure	
DRIIO(d x D)	D1	L1	L2	L3	В	Size	Quantity	Torque	Thrust	Torque	Shaft	Hub	Mass
mm	mm	mm	mm	mm	mm	М	Qty	N·m	kN	N·m	Mpa	Mpa	kg
6×14	25	10	18.5	21	24	M3	3	2	4	12	185	80	0.04
7×15	27	12	22	25	29	M4	3	5	7	25	235	110	0.06
8×15	27	12	22	25	29	M4	3	5	7	29	205	110	0.05
9×16	28	14	23	26	30	M4	4	5	10	44	205	115	0.06
10×16	28	14	23	26	30	M4	4	5	10	49	185	115	0.06
11×18	32	14	23	26	30	M4	4	5	10	53	170	105	0.07
12×18	32	14	23	26	30	M4	4	5	10	58	160	105	0.07
13×23	38	14	23	26	30	M4	4	5	10	63	140	80	0.11
14×23	38	14	23	26	30	M4	4	5	10	68	130	80	0.11
15×24	45	16	29	36	42	M6	3	17	17	127	185	115	0.22
16×24	45	16	29	36	42	M6	3	17	17	136	175	115	0.22
17×26	47	18	31	38	44	M6	4	17	22	180	190	125	0.25
18×26	47	18	31	38	44	M6	4	17	22	200	180	125	0.24
19×27	49	18	31	38	44	M6	4	17	22	210	170	120	0.26
20×28	50	18	31	38	44	M6	4	17	22	220	160	115	0.27
22×32	54	25	38	45	51	M6	4	17	22	250	115	80	0.34
24×34	56	25	38	45	51	M6	4	17	22	270	105	75	0.36
25×34	56	25	38	45	51	M6	4	17	22	280	100	75	0.35
28×39	61	25	38	45	51	M6	6	17	33	465	135	97	0.48
30×41	62	25	38	45	51	M6	6	17	33	510	127	90	0.48
32×43	65	25	38	45	51	M6	6	17	33	540	120	90	0.47
35×47	69	32	45	52	58	M6	8	17	45	790	105	80	0.58
38×50	72	32	45	52	58	M6	8	17	45	860	100	75	0.61
40×53	75	32	45	52	58	M6	8	17	45	900	95	70	0.68
42×55	78	32	45	52	58	M6	8	17	45	950	90	70	0.78
45×59	86	45	62	70	78	M8	8	41	84	1,890	110	85	1.20
48×62	87 92	45 45	62 62	70 70	78 78	M8	8	41	84	2,010	105	82	1.20
50×65						M8	8	41	84	2,100	100	75	1.40
55×71	98 104	55 55	72 72	80 80	88 88	M8 M8	9	41 41	91 91	2,600	85 75	65 60	1.60 1.80
60×77 65×84	104	55 55	72 72	80	88	M8	9	41	91	2,840 3,070	75 70	55	2.10
65×84 70×90	119	65	86	96	106	M10	9	83	150	5,250	90	70	3.00
70×90 75×95	126	65	86	96	106	M10	9	83	150	5,600	80	65	3.00
75×95 80×100	131	65	86	96	106	M10	12	83	200	8,020	100	80	3.50
85×106	137	65	86	96	106	M10	12	83	200	8,500	95	75	3.60
90×112	144	65	86	96	106	M10	12	83	200	9,000	90	75 75	3.90
95×120	144	65	86	96	106	M10	14	83	230	11,000	100	80	4.40
95×120 100×125	154	65	86	96	106	M10	18	83	300	15,000	120	95	4.40
100 \ 120	104	00	00	90	100	IVITU	10	03	300	15,000	120	90	4.0









Unlike the DR110, The inner ring and the spacer are integrated. Features It has centering function and there in no axial movement of the hub

Simple installation.

Surface roughness : Rt max 16µm Specifications Processing tolerance : Shaft h8, Hub H8 Usage

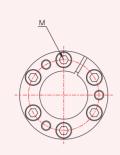
Pulley with small hub outer diameter, Sprocket, Gear etc.

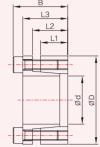
DR120	20	28
Product NO	Inner diameter : d	Outer Diameter : D

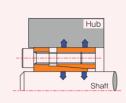
- * DR120 : Standard product
- * DR120N : Electroless nickel plating product

DD120/4 D)		Dimensi	ion(mm)		Tightenin	ng screw(DIN	1912/12.9)	Tore	que	Surface	pressure	
DR120(d x D)	D1	L1	L2	В	Size	Quantity	Tightening torque	Thrust	Torque	Shaft	Hub	Mass
mm	mm	mm	mm	mm	М	Qty	N·m	kN	N · m	Mpa	Mpa	kg
5×12	23	10	19	22	M3	4	1.7	3.45	9	188	99	0.036
6×12	23	10	19	22	M3	4	1.7	3.45	11	156	99	0.034
8×15	28	12	23	27	M4	4	4	6.09	25	174	116	0.061
10×18	31.5	12	23	27	M4	5	4	8.71	44	193	134	0.078
11×18	31.5	12	23	27	M4	5	4	8.71	48	176	134	0.075
12×20	33.5	12	23	27	M4	5	4	8.71	53	161	121	0.086
14×22	35.5	12	23	27	M4	5	4	8.71	61	138	110	0.094
15×23	38.5	14	27	32	M5	4	8	15.3	115	178	150	0.135
16×24	39.5	14	27	32	M5	4	8	15.3	123	167	144	0.140
17×25	40.5	14	27	32	M5	4	8	15.3	131	158	138	0.146
18×26	46	14	30	36	M6	4	14	23.2	210	195	198	0.221
19×27	47	14	30	36	M6	4	14	23.2	221	185	191	0.228
20×28	48	14	30	36	M6	4	14	23.2	233	176	184	0.235
22×32	52	16	32	38	M6	4	14	23.2	256	146	141	0.287
24×34	54	16	32	38	M6	4	14	23.2	279	134	133	0.302
25×34	54	16	32	38	M6	4	14	23.2	291	128	133	0.293
28×39	59	20	36	42	M6	6	14	34.8	488	146	139	0.378
30×41	61	20	36	42	M6	6	14	34.8	523	136	132	0.396
32×43	63	20	36	42	M6	6	14	34.8	558	128	126	0.414
35×47	67	22	38	44	M6	8	14	46.4	813	145	140	0.484
38×50	70	22	38	44	M6	8	14	46.4	883	133	131	0.512
40×53	73	22	38	44	M6	8	14	46.4	929	127	124	0.560
42×55	75	22	38	44	M6	8	14	46.4	976	121	119	0.580
45×59	84	30	50.5	58.5	M8	8	34	84.5	1,910	160	148	0.962
48×62	87	30	50.5	58.5	M8	8	34	84.5	2,040	150	141	1.000
50×65	90	30	50.5	58.5	M8	8	34	84.5	2,120	144	135	1.090

LOCKING ELEMENT







Features It has

It has a shaft on the hub movable when assembled. It has a good capacity of transmission. Centering function is available

Specifications Surface roughness: Rt max 16,4711 Processing tolerance: Shaft h8, Hub H8

Usage

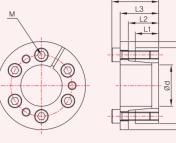
Pump, Cam, Sprocket, Pulley, etc.

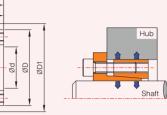
Order Method (Order Example)
 DR132
 25
 50

 Product NO
 Inner diameter : d
 Outer Diameter : D

DR132/DR133			Dimension(mm)				Tightening scr	ew(DIN912/12.9)	
(d x D)	D1(DR1330nly)	L1	L2	L3	В	Size	Quantity	DR132 Tightening torque	DR133 Tightening torqu
	mm	mm	mm	mm	mm	М	Qty	N · m	N·m
18×47	56	17	22	28	34	M6	5	14	17
19×47	56	17	22	28	34	M6	5	14	17
20×47	56	17	22	28	34	M6	5	14	17
22×47	56	17	22	28	34	M6	5	14	17
24×50	59	17	22	28	34	M6	5	14	17
25×50	59	17	22	28	34	M6	6	14	17
28×55	64	17	22	28	34	M6	6	14	17
30×55	64	17	22	28	34	M6	6	14	17
32×60	69	17	22	28	34	M6	8	14	17
35×60	69	17	22	28	34	M6	8	14	17
38×65	74	17	22	28	34	M6	8	14	17
40×65	74	17	22	28	34	M6	8	14	17
42×75	84	20	25	33	41	M8	7	35	41
45×75	84	20	25	33	41	M8	7	35	41
48×80	89	20	25	33	41	M8	7	35	41
50×80	89	20	25	33	41	M8	7	35	41
55×85	94	20	25	33	41	M8	8	35	41
60×90	99	20	25	33	41	M8	8	35	41
65×95	104	20	25	33	41	M8	9	35	41
70×110	119	24	30	40	50	M10	8	70	83
75×115	124	24	30	40	50	M10	8	70	83
80×120	129	24	30	40	50	M10	8	70	83
85×125	134	24	30	40	50	M10	9	70	83
90×130	139	24	30	40	50	M10	9	70	83
95×135	144	24	30	40	50	M10	10	70	83
100×145	154	26	32	44	56	M12	8	125	145







Features

It has a shaft on the hub unmovable when assembled. It has a good capacity of transmission. Centering function is available

Surface roughness: Rt max 16µm

Specifications Processing tolerance : Shaft h8, Hub H8

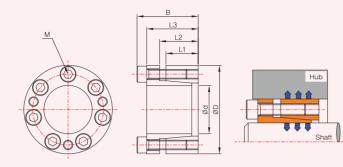
Usage

Pump, Cam, Sprocket, Pulley, etc.

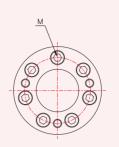
DR133	25	50
Product NO	Inner diameter : d	Outer Diameter : D

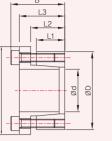
(d x D) TransferTrout TransferTrout Surface pressure Mass TransferTrout TransferTrout Surface pressure Mass mm kN N·m Mpa Mpa kg kN N·m Mpa kg 18×47 38 380 295 125 0.3 28 280 220 95 0.3 20×47 38 380 295 125 0.3 28 280 220 95 0.3 22×47 38 410 270 125 0.3 28 280 220 95 0.3 24×50 38 440 245 120 0.3 28 330 180 90 0.3 28×55 46 660 255 130 0.4 34 470 190 95 0.4 30×55 46 660 235 130 0.4 45 790 200 115 0.4 35×60	DR132/DR133			DR132			DR133						
18×47 38 380 295 125 0.3 28 280 220 95 0.3 19×47 38 380 295 125 0.3 28 280 220 95 0.3 20×47 38 380 295 125 0.3 28 280 220 95 0.3 22×47 38 410 270 125 0.3 28 300 200 95 0.3 24×50 38 450 225 140 0.3 34 420 210 105 0.3 28×55 46 630 255 130 0.4 34 470 190 95 0.4 30×55 46 660 235 130 0.4 34 470 190 95 0.4 30×55 46 660 235 155 0.4 45 700 220 115 0.4 35×60 60 <th>(d x D)</th> <th>Transfer Thrust</th> <th>Transfer Torque</th> <th>Surface pressure Shaft</th> <th>Surface pressure Hub</th> <th>Mass</th> <th>Transfer Thrust</th> <th>Transfer Torque</th> <th>Surface pressure Shaft</th> <th>Surface pressure Hub</th> <th>Mass</th>	(d x D)	Transfer Thrust	Transfer Torque	Surface pressure Shaft	Surface pressure Hub	Mass	Transfer Thrust	Transfer Torque	Surface pressure Shaft	Surface pressure Hub	Mass		
19×47 38 380 295 125 0.3 28 280 220 95 0.3 20×47 38 380 295 125 0.3 28 280 220 95 0.3 22×47 38 410 270 125 0.3 28 300 200 95 0.3 24×50 38 450 245 120 0.3 28 330 180 90 0.3 25×50 46 570 285 140 0.3 34 420 210 105 0.3 28×55 46 660 235 130 0.4 34 470 190 95 0.4 30×55 46 660 235 155 0.4 45 720 220 115 0.4 40×56 60 1,160 270 155 0.4 45 790 200 115 0.4 40×65 60<	mm	kN	N⋅m	Мра	Мра	kg	kN	N⋅m	Мра	Mpa	kg		
20×47 38 380 295 125 0.3 28 280 220 95 0.3 22×47 38 410 270 125 0.3 28 300 200 95 0.3 24×50 38 450 245 120 0.3 28 330 180 90 0.3 25×50 46 650 255 140 0.3 34 420 210 105 0.3 28×55 46 660 235 130 0.4 34 470 190 95 0.4 32×60 60 970 295 155 0.4 45 720 220 115 0.4 35×60 60 1,060 270 155 0.4 45 790 200 115 0.4 40×65 60 1,150 250 145 0.4 45 850 185 105 0.5 42×75	18×47	38	380	295	125	0.3	28	280	220	95	0.3		
22×47 38 410 270 125 0.3 28 300 200 95 0.3 24×50 38 450 245 120 0.3 28 330 180 90 0.3 25×50 46 570 285 140 0.3 34 420 210 105 0.3 28×55 46 630 255 130 0.4 34 470 190 95 0.4 30×55 46 660 235 130 0.3 34 500 175 95 0.4 32×60 60 970 295 155 0.4 45 790 200 115 0.4 38×65 60 1,150 250 145 0.4 45 790 200 115 0.5 40×65 60 1,210 235 145 0.4 45 900 175 105 0.5 42×75	19×47	38	380	295	125	0.3	28	280	220	95	0.3		
24×50 38 450 245 120 0.3 28 330 180 90 0.3 25×50 46 570 285 140 0.3 34 420 210 105 0.3 28×55 46 630 255 130 0.4 34 470 190 95 0.4 30×55 46 660 235 130 0.3 34 500 175 95 0.4 32×60 60 970 295 155 0.4 45 720 220 115 0.4 35×60 60 1,060 270 155 0.4 45 790 200 115 0.4 40×65 60 1,210 235 145 0.4 45 890 175 105 0.5 42×75 98 1,050 300 170 0.8 73 1,650 215 125 0.7 48×80	20×47	38	380	295	125	0.3	28	280	220	95	0.3		
25×50 46 570 285 140 0.3 34 420 210 105 0.3 28×55 46 630 255 130 0.4 34 470 190 95 0.4 30×55 46 660 235 130 0.3 34 500 175 95 0.4 32×60 60 970 295 155 0.4 45 720 220 115 0.4 35×60 60 1,060 270 155 0.4 45 790 200 115 0.4 40×65 60 1,150 250 145 0.4 45 850 185 105 0.5 42×75 98 1,050 300 170 0.8 73 1,530 225 125 0.8 45×75 98 2,200 290 170 0.6 73 1,650 215 125 0.7 48×80	22×47	38	410	270	125	0.3	28	300	200	95	0.3		
28×55 46 630 255 130 0.4 34 470 190 95 0.4 30×55 46 660 235 130 0.3 34 500 175 95 0.4 32×60 60 970 295 155 0.4 45 720 220 115 0.4 38×65 60 1,150 250 145 0.4 45 790 200 115 0.4 40×65 60 1,210 235 145 0.4 45 900 175 105 0.5 42×75 98 1,050 300 170 0.8 73 1,530 225 125 0.8 45×75 98 2,200 290 170 0.6 73 1,650 215 125 0.7 48×80 98 2,450 260 160 0.8 73 1,760 200 120 0.8 55×85 <td>24×50</td> <td>38</td> <td>450</td> <td>245</td> <td>120</td> <td>0.3</td> <td>28</td> <td>330</td> <td>180</td> <td>90</td> <td>0.3</td>	24×50	38	450	245	120	0.3	28	330	180	90	0.3		
30×55 46 660 235 130 0.3 34 500 175 95 0.4 32×60 60 970 295 155 0.4 45 720 220 115 0.4 35×60 60 1,060 270 155 0.4 45 790 200 115 0.4 40×65 60 1,150 250 145 0.4 45 850 185 105 0.5 42×75 98 1,050 300 170 0.8 73 1,530 225 125 0.8 45×75 98 2,200 290 170 0.6 73 1,650 215 125 0.7 48×80 98 2,350 270 160 0.8 73 1,760 200 120 0.8 50×80 98 2,450 260 160 0.8 73 1,830 195 120 0.8 55×8	25×50	46	570	285	140	0.3	34	420	210	105	0.3		
32×60 60 970 295 155 0.4 45 720 220 115 0.4 35×60 60 1,060 270 155 0.4 45 790 200 115 0.4 38×65 60 1,150 250 145 0.4 45 850 185 105 0.5 40×65 60 1,210 235 145 0.4 45 900 175 105 0.5 42×75 98 1,050 300 170 0.8 73 1,530 225 125 0.8 45×75 98 2,200 290 170 0.6 73 1,650 215 125 0.8 48×80 98 2,350 270 160 0.8 73 1,760 200 120 0.8 50×80 98 2,450 260 160 0.8 73 1,830 195 120 0.8 5	28×55	46	630	255	130	0.4	34	470	190	95	0.4		
35×60 60 1,060 270 155 0.4 45 790 200 115 0.4 38×65 60 1,150 250 145 0.4 45 850 185 105 0.5 40×65 60 1,210 235 145 0.4 45 900 175 105 0.5 42×75 98 1,050 300 170 0.8 73 1,530 225 125 0.8 45×75 98 2,200 290 170 0.6 73 1,650 215 125 0.7 48×80 98 2,350 270 160 0.8 73 1,760 200 120 0.8 50×80 98 2,450 260 160 0.8 73 1,830 195 120 0.8 55×85 112 3,080 270 175 0.8 83 2,510 185 125 0.9	30×55	46	660	235	130	0.3	34	500	175	95	0.4		
38×65 60 1,150 250 145 0.4 45 850 185 105 0.5 40×65 60 1,210 235 145 0.4 45 900 175 105 0.5 42×75 98 1,050 300 170 0.8 73 1,530 225 125 0.8 45×75 98 2,200 290 170 0.6 73 1,650 215 125 0.7 48×80 98 2,350 270 160 0.8 73 1,760 200 120 0.8 50×80 98 2,450 260 160 0.8 73 1,830 195 120 0.8 55×85 112 3,080 270 175 0.8 83 2,510 185 125 0.9 60×90 112 3,360 245 165 0.8 83 2,510 185 125 0.9	32×60	60	970	295	155	0.4	45	720	220	115	0.4		
40×65 60 1,210 235 145 0.4 45 900 175 105 0.5 42×75 98 1,050 300 170 0.8 73 1,530 225 125 0.8 45×75 98 2,200 290 170 0.6 73 1,650 215 125 0.7 48×80 98 2,350 270 160 0.8 73 1,760 200 120 0.8 50×80 98 2,450 260 160 0.8 73 1,830 195 120 0.8 55×85 112 3,080 270 175 0.8 83 2,300 200 130 0.9 60×90 112 3,360 245 165 0.8 83 2,510 185 125 0.9 65×95 126 4,090 255 175 0.9 94 3,060 190 130 1.9	35×60	60	1,060	270	155	0.4	45	790	200	115	0.4		
42×75 98 1,050 300 170 0.8 73 1,530 225 125 0.8 45×75 98 2,200 290 170 0.6 73 1,650 215 125 0.7 48×80 98 2,350 270 160 0.8 73 1,760 200 120 0.8 50×80 98 2,450 260 160 0.8 73 1,830 195 120 0.8 55×85 112 3,080 270 175 0.8 83 2,300 200 130 0.9 60×90 112 3,360 245 165 0.8 83 2,510 185 125 0.9 65×95 126 4,090 255 175 0.9 94 3,060 190 130 1.0 75×115 179 6,300 280 180 1.8 133 5,000 195 125 2.0 <t< td=""><td>38×65</td><td>60</td><td>1,150</td><td>250</td><td>145</td><td>0.4</td><td>45</td><td>850</td><td>185</td><td>105</td><td>0.5</td></t<>	38×65	60	1,150	250	145	0.4	45	850	185	105	0.5		
45×75 98 2,200 290 170 0.6 73 1,650 215 125 0.7 48×80 98 2,350 270 160 0.8 73 1,760 200 120 0.8 50×80 98 2,450 260 160 0.8 73 1,830 195 120 0.8 55×85 112 3,080 270 175 0.8 83 2,300 200 130 0.9 60×90 112 3,360 245 165 0.8 83 2,510 185 125 0.9 65×95 126 4,090 255 175 0.9 94 3,060 190 130 1.0 70×110 179 6,300 280 180 1.8 133 4,670 210 135 1.9 75×115 179 6,700 260 170 1.8 133 5,000 185 125 2.0	40×65	60	1,210	235	145	0.4	45	900	175	105	0.5		
48×80 98 $2,350$ 2701600.8731,7602001200.8 50×80 98 $2,450$ 2601600.8731,8301951200.8 55×85 1123,0802701750.8832,3002001300.9 60×90 1123,3602451650.8832,5101851250.9 65×95 1264,0902551750.9943,0601901301.0 70×110 1796,3002801801.81334,6702101351.9 75×115 1796,7002601701.81335,0001951252.0 80×120 1797,1502501701.81335,3001851252.0 85×125 2008,50026018021486,3001951352.0 90×130 2009,1002501702.11486,7501851302.2 95×135 22410,6002601802.11667,9001951352.3	42×75	98	1,050	300	170	0.8	73	1,530	225	125	8.0		
50×80 98 2,450 260 160 0.8 73 1,830 195 120 0.8 55×85 112 3,080 270 175 0.8 83 2,300 200 130 0.9 60×90 112 3,360 245 165 0.8 83 2,510 185 125 0.9 65×95 126 4,090 255 175 0.9 94 3,060 190 130 1.0 70×110 179 6,300 280 180 1.8 133 4,670 210 135 1.9 75×115 179 6,700 260 170 1.8 133 5,000 195 125 2.0 80×120 179 7,150 250 170 1.8 133 5,300 185 125 2.0 85×125 200 8,500 260 180 2 148 6,300 195 135 2.2	45×75	98	2,200	290	170	0.6	73	1,650	215	125	0.7		
55×85 112 3,080 270 175 0.8 83 2,300 200 130 0.9 60×90 112 3,360 245 165 0.8 83 2,510 185 125 0.9 65×95 126 4,090 255 175 0.9 94 3,060 190 130 1.0 70×110 179 6,300 280 180 1.8 133 4,670 210 135 1.9 75×115 179 6,700 260 170 1.8 133 5,000 195 125 2.0 80×120 179 7,150 250 170 1.8 133 5,300 185 125 2.0 85×125 200 8,500 260 180 2 148 6,300 195 135 2.0 90×130 200 9,100 250 170 2.1 148 6,750 185 130	48×80	98	2,350	270	160	0.8	73	1,760	200	120	0.8		
60×90 112 3,360 245 165 0.8 83 2,510 185 125 0.9 65×95 126 4,090 255 175 0.9 94 3,060 190 130 1.0 70×110 179 6,300 280 180 1.8 133 4,670 210 135 1.9 75×115 179 6,700 260 170 1.8 133 5,000 195 125 2.0 80×120 179 7,150 250 170 1.8 133 5,300 185 125 2.0 85×125 200 8,500 260 180 2 148 6,300 195 135 2.0 90×130 200 9,100 250 170 2.1 148 6,750 185 130 2.2 95×135 224 10,600 260 180 2.1 166 7,900 195	50×80	98	2,450	260	160	0.8	73	1,830	195	120	0.8		
65×95 126 4,090 255 175 0.9 94 3,060 190 130 1.0 70×110 179 6,300 280 180 1.8 133 4,670 210 135 1.9 75×115 179 6,700 260 170 1.8 133 5,000 195 125 2.0 80×120 179 7,150 250 170 1.8 133 5,300 185 125 2.0 85×125 200 8,500 260 180 2 148 6,300 195 135 2.2 90×130 200 9,100 250 170 2.1 148 6,750 185 130 2.2 95×135 224 10,600 260 180 2.1 166 7,900 195 135 2.3	55×85	112	3,080	270	175	0.8	83	2,300	200	130	0.9		
70×110 179 6,300 280 180 1.8 133 4,670 210 135 1.9 75×115 179 6,700 260 170 1.8 133 5,000 195 125 2.0 80×120 179 7,150 250 170 1.8 133 5,300 185 125 2.0 85×125 200 8,500 260 180 2 148 6,300 195 135 2.0 90×130 200 9,100 250 170 2.1 148 6,750 185 130 2.2 95×135 224 10,600 260 180 2.1 166 7,900 195 135 2.3	60×90	112	3,360	245	165	0.8	83	2,510	185	125	0.9		
75×115 179 6,700 260 170 1.8 133 5,000 195 125 2.0 80×120 179 7,150 250 170 1.8 133 5,300 185 125 2.0 85×125 200 8,500 260 180 2 148 6,300 195 135 2.0 90×130 200 9,100 250 170 2.1 148 6,750 185 130 2.2 95×135 224 10,600 260 180 2.1 166 7,900 195 135 2.3	65×95	126	4,090	255	175	0.9	94	3,060	190	130	1.0		
80×120 179 7,150 250 170 1.8 133 5,300 185 125 2.0 85×125 200 8,500 260 180 2 148 6,300 195 135 2.0 90×130 200 9,100 250 170 2.1 148 6,750 185 130 2.2 95×135 224 10,600 260 180 2.1 166 7,900 195 135 2.3	70×110	179	6,300	280	180	1.8	133	4,670	210	135	1.9		
85×125 200 8,500 260 180 2 148 6,300 195 135 2.0 90×130 200 9,100 250 170 2.1 148 6,750 185 130 2.2 95×135 224 10,600 260 180 2.1 166 7,900 195 135 2.3	75×115	179	6,700	260	170	1.8	133	5,000	195	125	2.0		
90 × 130 200 9,100 250 170 2.1 148 6,750 185 130 2.2 95 × 135 224 10,600 260 180 2.1 166 7,900 195 135 2.3	80×120	179	7,150	250	170	1.8	133	5,300	185	125	2.0		
95×135 224 10,600 260 180 2.1 166 7,900 195 135 2.3	85×125	200	8,500	260	180	2	148	6,300	195	135	2.0		
	90×130	200	9,100	250	170	2.1	148	6,750	185	130	2.2		
100 × 145 268 13,400 270 190 2.8 194 9,700 200 140 3.0	95×135	224	10,600	260	180	2.1	166	7,900	195	135	2.3		
	100×145	268	13,400	270	190	2.8	194	9,700	200	140	3.0		

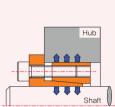












LOCKING ELEMENT

Available when the hub is moved to the shaft direction to some extent. Centering function is available.

Specifications

Surface roughness : Rt max 16

Processing tolerance : Shaft h9, Hub H9

Pump, Cam, Sprocket, Pulley, etc.

Usage

Order Method (Order Example)

DR132A	25	50
Product NO	Inner diameter : d	Outer Diameter : D

DR132A(d x D)		Dimensi	on(mm)		Tighteni	ng screw(DIN	1912/12.9)	Tra	ansfer	Surface	Mass	
DR132A(d X D)	L1	L2	L3	В	Size	Quantity	Tightening torque	Thrust	Torque	Shaft	Hub	IVIdSS
mm	mm	mm	mm	mm	M	Qty	N · m	kN	N · m	Mpa	Mpa	kg
18×47	20	24	32	38	M6	6	16	31	295	299	97	0.33
19×47	20	24	32	38	M6	6	16	31	295	299	97	0.33
20×47	20	24	32	38	M6	6	16	31	305	283	97	0.32
22×47	20	24	32	38	M6	6	16	31	334	257	97	0.30
24×50	20	24	32	38	M6	7	16	39	461	295	113	0.35
25×50	20	24	32	38	M6	7	16	39	481	283	113	0.35
28×55	20	24	32	38	M6	7	16	39	540	253	103	0.40
30×55	20	24	32	38	M6	7	16	39	579	236	103	0.38
32×60	20	24	32	38	M6	9	16	46	736	265	113	0.45
35×60	20	24	32	38	M6	9	16	46	805	243	113	0.44
38×65	20	24	32	38	M6	9	16	46	873	223	104	0.50
40×65	20	24	32	38	M6	9	16	46	913	212	104	0.47
42×75	24	29	40	48	M8	9	39	85	1,776	313	140	0.90
45×75	24	29	40	48	M8	9	39	85	1,933	293	140	0.80
48×80	24	29	40	48	M8	9	39	85	2,031	274	131	0.90
50×80	24	29	40	48	M8	9	39	85	2,119	263	131	0.90
55×85	24	29	40	48	M8	10	39	99	2,718	279	144	0.90
60×90	24	29	40	48	M8	10	39	99	2,963	256	136	1.00
65×95	24	29	40	48	M8	12	39	113	3,669	270	147	1.10
70×110	30	37	52	62	M10	10	74	155	5,435	285	140	2.00
75×115	30	37	52	62	M10	10	74	155	5,828	265	133	2.20
80×120	30	37	52	62	M10	10	74	155	6,210	250	128	2.30
85×125	30	37	52	62	M10	12	74	177	7,544	268	141	2.40
90×130	30	37	52	62	M10	12	74	177	7,986	254	135	2.50
95×135	30	37	52	62	M10	14	74	246	10,536	300	162	2.70
100×145	39	46	64	74	M10	15	74	246	11,086	206	116	4.00

Features

Precise position can be decided as the hub is not moved to the shaft direction. Centering function is available.

Specifications

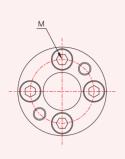
Surface roughness: Rt max 16 m Processing tolerance: Shaft h9, Hub H9

Pump, Cam, Sprocket, Pulley, etc.

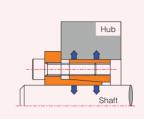
Usage

DR133B	25	50
Product NO	Inner diameter : d	Outer Diameter : D

DR133B(d x D)		Di	mension(m	m)		Tightenin	Tightening screw(DIN912/12.9)			fer	Surface	pressure	N.4000
DK133B(0 X D)	D1	L1	L2	L3	В	Size	Quantity	Tightening torque	Thrust	Torque	Shaft	Hub	Mass
mm	mm	mm	mm	mm	mm	М	Qty	N · m	kN	N - m	Мра	Mpa	kg
19×47	53	20	24	32	38	M6	6	16	30	285	285	93	0.36
20×47	53	20	24	32	38	M6	6	16	30	295	270	93	0.36
22×47	53	20	24	32	38	M6	6	16	30	324	246	93	0.34
24×50	56	20	24	32	38	M6	7	16	34	412	262	101	0.38
25×50	56	20	24	32	38	M6	7	16	34	432	253	101	0.37
28×55	62	20	24	32	38	M6	7	16	34	471	225	93	0.44
30×55	62	20	24	32	38	M6	7	16	34	511	210	93	0.43
32×60	68	20	24	32	38	M6	9	16	44	697	253	108	0.51
35×60	68	20	24	32	38	M6	9	16	44	766	232	108	0.48
38×65	73	20	24	32	38	M6	9	16	44	834	213	98	0.55
40×65	73	20	24	32	38	M6	9	16	44	883	202	100	0.52
42×75	83	24	29	40	48	M8	9	39	81	1,698	299	133	0.96
45×75	83	24	29	40	48	M8	9	39	81	1,815	279	133	0.90
48×80	88	24	29	40	48	M8	9	39	81	1,943	262	125	1.01
50×80	88	24	29	40	48	M8	9	39	81	2,021	252	125	0.95
55×85	94	24	29	40	48	M8	10	39	90	2,473	253	130	1.06
60×90	99	24	29	40	48	M8	10	39	90	2,698	233	123	1.13
65×95	104	24	29	40	48	M8	12	39	108	3,503	258	140	1.22
70×110	119	30	37	52	62	M10	10	74	142	4,945	259	127	2.28
75×115	124	30	37	52	62	M10	10	74	142	5,298	242	121	2.40
80×120	129	30	37	52	62	M10	10	74	142	5,641	226	116	2.52
85×125	134	30	37	52	62	M10	12	74	167	7,201	255	134	2.66
90×130	139	30	37	52	62	M10	12	74	167	7,603	242	128	2.78
95×135	144	30	37	52	62	M10	14	74	197	9,369	267	144	2.98
100×145	154	39	46	64	74	M10	15	74	206	10,595	196	111	4.3

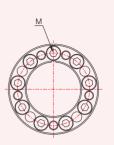


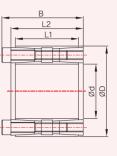


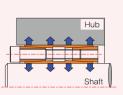


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Features

LOCKING ELEMENT

Light weight and compact size Centering function is available. Fitting and disassembly is easy

Specifications

Surface roughness : Rt max 16µm Processing tolerance : Shaft h8, Hub H8

Pump, Cam, Sprocket, Pulley, etc.

Usage

Order Method (Order Example)

DR134S	13	27
Product NO	Inner diameter : d	Outer Diameter : D

DD1346/4 v D)		D	imension(m	nm)		Tightenin	g screw(DIN	1912/12.9)	Trar	nsfer	Surface	oressure	
DR134S(d x D)	D1	L1	L2	L3	В	Size	ize Quantity Tightening torque		Thrust Torque		Shaft Hub		Mass
mm	mm	mm	mm	mm	mm	M	Qty	N·m	kN	N · m	Mpa	Mpa	kg
8×22	25	10	13	17	21	M4	3	4	5	18	274	70	0.05
9×23	26	10	13	17	21	M4	3	4	5	21	244	67	0.05
10×24	27	10	13	17	21	M4	4	4	6	30	295	86	0.05
11×25	28	10	13	17	21	M4	4	4	6	34	265	83	0.06
12×26	29	10	13	17	21	M4	5	4	8	47	304	99	0.06
13×27	30	10	13	17	21	M4	5	4	8	50	281	96	0.06
14×31	34	12.5	16	21	26	M5	4	8	10	69	261	86	0.10
15×32	35	12.5	16	21	26	M5	4	8	10	74	243	83	0.11
16×33	36	12.5	16	21	26	M5	4	8	10	79	228	80	0.11
17×34	37	12.5	16	21	26	M5	5	8	13	104	268	98	0.12
18×35	38	12.5	16	21	26	M5	5	8	13	108	253	95	0.12
19×35	38	12.5	16	21	26	M5	5	8	13	108	253	95	0.12

Features

It is a kind of power lock with high transmission torque. It has the same inner and outer dimension with DR200 type. It can be replaced when using 2 DR200 types in a row.

Centering function is available

It has a shaft on the hub unmovable when assembled.

Specifications

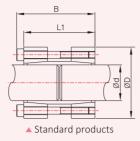
Surface roughness : Rt max 16 / Im Processing tolerance : Shaft h8, Hub H8

DR400	50	80
Product NO	Inner diameter : d	Outer Diameter : D

DR400(d x D)	D	imension(mm	1)	Tightenin	g screw(DIN9:	12/12.9)	Tra	ınsfer	Surface	pressure	Mass
DK400(a x D) =	L1	L2	В	Size	Quantity	Tightening torque	Thrust	Torque	Shaft	Hub	IVIas
mm	mm	mm	mm	М	Qty	N - m	kN	N·m	Мра	Мра	kg
19×47	39	45	51	M6	6	17	41	496	185	110	0.4
20×47	39	45	51	M6	6	17	41	522	185	110	0.4
22×47	39	45	51	M6	6	17	41	339	185	110	0.
24×50	39	45	51	M6	6	17	55	841	185	110	0.
25×50	39	45	51	M6	6	17	54	900	185	110	0.
28×55	39	45	51	M6	8	17	55	1,000	185	110	0.
30×55	39	45	51	M6	8	17	53	1,100	185	110	0.
32×60	39	45	51	M6	8	17	80	1,350	185	110	0.
35×60	39	45	51	M6	8	17	80	1,600	185	110	0.
38×65	39	45	51	M6	8	17	90	2,171	185	110	0.
40×65	39	45	51	M6	8	17	120	2,400	185	110	0
42×75	39	45	53	M8	8	41	155	3,250	185	110	1.
45×75	39	45	53	M8	8	41	174	3,900	183	110	0.
45×75L	56	64	72	M8	8	41	174	4,150	185	105	1.
48×80	56	64	72	M8	8	41	174	4,150	170	105	1.
50×80	56	64	72	M8	8	41	174	4,300	165	105	1.
55×85	56	64	72	M8	8	41	174	4,800	150	95	1.
60×90	56	64	72	M8	10	41	213	6,400	170	110	1.
65×95	56	64	72	M8	10	41	213	6,900	155	105	1.
70×110	70	78	88	M10	10	83	338	11,800	185	115	3.
75×115	70	78	88	M10	10	83	338	12,700	170	110	3.
80×120	70	78	88	M10	12	83	369	14,700	172	115	3.
85×125	70	78	88	M10	12	83	400	15,700	165	110	3.
90×130	70	78	88	M10	12	83	400	18,100	170	115	3.
95×135	70	78	88	M10	12	83	400	19,000	160	110	4.
100×145	90	100	112	M12	12	145	538	26,900	160	110	5.

DR603







▲ Made to order

Features

Fitting and disassembly is easy.

It has a high transmission and transfer torque.

One diameter can be interlocked with another diameter. (Customized)

Surface roughness : Rt max 16µm

Specifications Processing tolerance(Max): Shaft h8

Usage

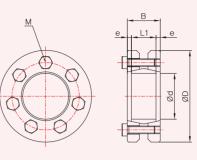
It is available as rigid coupling for connecting both shaft.

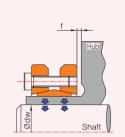
Order Method (Order Example)

DR500	50	90
Product NO	Inner diameter : d	Outer Diameter : D

DR500(d x D)	Dimens	ion(mm)	Tighte	ning screw(DIN91	.2/12.9)	Tra	ansfer	
DK500(d x D) =	L1	В	Size	Quantity	Tightening torque	Thrust	Torque	Mass
mm	mm	mm	М	Qty	N · m	kN	N · m	kg
15×45	50	56	M6	4	17	23	180	0.4
16×45	50	56	M6	4	17	23	190	0.4
17×45	50	56	M6	4	17	24	200	0.4
18×50	50	56	M6	4	17	24	220	0.5
19×50	50	56	M6	4	17	24	230	0.5
20×50	50	56	M6	4	17	24	240	0.5
22×55	60	66	M6	4	17	24	260	0.7
24×55	60	66	M6	4	17	24	290	0.7
25×55	60	66	M6	6	17	36	450	0.8
28×60	60	66	M6	6	17	36	510	0.9
30×60	60	66	M6	6	17	36	550	8.0
32×65	60	66	M6	6	17	36	580	8.0
35×75	75	83	M8	4	41	45	790	1.3
38×75	75	83	M8	4	41	45	850	1.3
40×75	75	83	M8	4	41	45	900	1.3
42×78	75	83	M8	4	41	45	950	1.4
45×85	85	93	M8	6	41	67	1,520	2.3
48×90	85	93	M8	6	41	67	1,620	2.3
50×90	85	93	M8	6	41	67	1,690	2.5
55×95	85	93	M8	8	41	90	2,470	2.4
60×100	85	93	M8	8	41	90	2,710	3.0
65×105	85	93	M8	8	41	90	2,930	3.3
70×115	100	110	M10	6	83	107	3,370	4.1
75×120	100	110	M10	6	83	107	4,030	4.8
80×125	100	110	M10	8	83	107	4,300	5.2
85×130	100	110	M10	8	84	120	4,500	5.5
90×135	100	110	M10	8	84	120	4,900	7.0
95×140	120	132	M10	8	84	120	5,200	7.5
100×150	120	132	M12	8	145	120	5,530	7.8







LOCKING ELEMENT

Features

Large transmissible torque is available.
Fitting and disassembly is easy.
Assemble to the outer diameter of the hub.

Specifications

Surface roughness: Rt max 16
Processing tolerance (Max): shaft Od h6,
Hub Id H7, Hub Od H6

DR603	30	60
Product NO	Inner diameter : d	Outer Diameter : D

DDC03/4 ·· D)	Applicable shaft		Dimensi	on(mm)		Tightenii	ng screw(DIN	N931/10.9)	Trar	nsfer	Surface	
DR603(d x D)	dw	В	L1	е	f	Size	Quantity	Tightening torque	Thrust	Torque	pressure	Mass
mm	mm	mm	mm	mm	mm	M	Qty	N·m	kN	N⋅m	Mpa	kg
14×38	11 12	11.0	7	2.00	2	M5	4	4	6 9	30 50	186	0.1
16×41	13 14	15.0	11	2.00	2	M5	5	4	10 13	70 90	130	0.1
24×50	19 20 21	19.5	14	2.75	3	M5	6	4	25 27 29	170 210 250	286	0.2
30×60	24 25 26	21.5	16	2.75	3	M5	7	4	29 31 33	300 340 380	233	0.3
36×72	28 30 31	23.5	18	2.75	4	M6	5	12	50 58 58	440 570 630	307	0.4
44×80	32 35 36	25.5	20	2.75	5	M6	7	12	64 74 77	620 780 860	317	0.6
50×90	38 40 42	27.5	22	2.75	5	M6	8	12	79 86 92	940 1,160 1,380	289	0.8
55×100	42 45 48	30.5	23	3.75	5	M6	8	12	79 88 97	1,160 1,520 1,880	252	1.1
62×110	48 50 52	30.5	23	3.75	6	M6	10	12	100 111 117	1,850 2,200 2,400	279	1.3
68×115	50 55 60	30.5	23	3.75	6	M6	10	12	97 106 120	2,000 2,500 3,150	255	1.4
75×138	55 60 65	32.5	25	3.75	8	M8	7	30	119 137 155	2,500 3,200 3,950	273	1.7
80×145	60 65 70	32.5	25	3.75	8	M8	7	30	124 140 158	3,200 3,900 4,600	256	1.9
85×155	65 70 75	39.0	30	4.50	8	M8	10	30	175 195 216	4,800 6,100 7,400	285	3.5
90×155	65 70 75	39.0	30	4.50	10	M8	10	30	170 190 210	4,750 6,000 7,250	271	3.3
100×170	70 75 80	44.0	34	5.00	10	M8	12	30	195 220 240	6,900 7,500 9,000	258	4.7

MAD, MAS, MASUS, DRAP, DRMC Series

Features

MAD Series is equipped with a small and compact size. In particular, the moment of inertia is small, so is suitable for high-speed rotating body.

MAS, MASUS, DRAP type is same shape as MAD which standard type.

MAS is the type which the electroless nickel plating treatment to body and rust-inhibitive type.

MASUS is ideal for machine requiring waterproofness, anti-corrosive and food machine because it employs all stainless bolts as body and bolts.

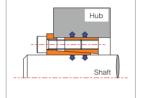
DRAP's the body was used aluminum alloy.

DRMC type has the boss which can be pressed directly bearing inner ring, so it can be reduced part quantity and enables the assembly process.



MAD

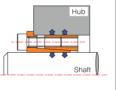
- Body material No. : S45C
- Size range : 5 X 16~85 X 112
- Centering function is available.
- Surface roughness : Rt max 16 μ m - Processing tolerance (Max) :
- Shaft h7, hub H7
- Bolt material: SCM435
- Transfer torque range : 7~4,400 N·m
- It has a hub stationary on the axis when assembled.





MAS

- Body material No. : MAD type which plated.
- Size range : 5 X 16~50 X 72
- Centering function is available.
- Surface roughness : Rt max 16μm Processing tolerance(Max):
- Shaft h7, Hub H7
- Bolt material: SCM 435 which plated
- Transfer torque range : 5~1,362 N⋅m
- It has a hub stationary on the axis
- when assembled.

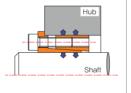




MASUS

- Body material No. : MAD Type which all Stainless steel.
- Size range : 5 x 16~50 x 72
- Centering function is available. - Surface roughness : Rt max 16μm
- Processing tolerance (Max) :
- Shaft h7, hub H7
- Bolt material: SUS304
- Transfer torque range : 2~754 N⋅m - It has a hub stationary on the axis
- when assembled.



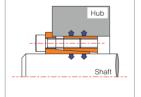




DRAP

- Body material No. : MAD Type which Aluminum alloy.
- Size range : 5 X 16~35 X 57
- Centering function is available.
- Surface roughness : Rt max 16μm
- Processing tolerance (Max) : shaft h7, Hub H7
- Bolt material: SCM435 - Transfer torque range : 5~548 N⋅m

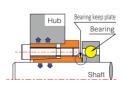






DRMC

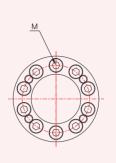
- It can be assembled with being pressed directly bearing inner ring, so it can be reduced the assembly process time.
- Body material No. : Aluminum alloy. Size range : 4 X 15~35X56
- Centering function is available.
- Surface roughness : Rt max 16 μ m
- Bolt material: SCM435
- Transfer torque range: 2~230 N⋅m
- It has hub stationary on the axis when assembled.
- Processing tolerance (Max):
- Shaft h7, Hub H7

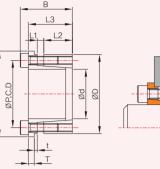


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MAD







LOCKING ELEMENT

Features

MAD is available for the shaft with a narrow diameter Centering function is available.

Decision on position is free.

It has a shaft on the hub unmovable when assembled. Safe and precise fitting system

Specifications Processing tolerance(Max): Shaft h7,

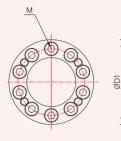
Pump, Cam, Sprocket, Pulley, etc.

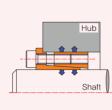
Usage

MAD	25	43
Product NO	Inner diameter : d	Outer Diameter : D

			Dim	ension(mm)				Tightenin	g screw(DII	(912/12.9)	Tran	nsfer	Surface	oressure		Moment
MAD(d x D)	D1	P.C.D	t	T	L1	L2	L3	В	Size	Quantity	Tightening torque	Thrust	Torque	Shaft	Hub	Mass	of inertia
mm	mm	mm	mm	mm	mm	mm	mm	mm	M	Qty	N · m	kN	N · m	Mpa	Мра	kg	kg ⋅ m²
5×16	18.5	11.7	1.2	1.8	2.0	8.0	13.0	16.0	M3	4	1.9	2.80	7	249	81	0.018	6.27×10^{-7}
6×19	21.5	14.0	1.3	2.0	2.0	9.0	14.3	18.3	M4	4	3.9	4.67	14	318	102	0.026	1.36 × 10 ⁻⁶
6.35×20	22.5	14.35	1.3	2.0	2.0	9.0	14.3	18.3	M4	4	3.9	4.67	14	301	97	0.029	1.66 ×10−6
8×21	23.5	15.40	1.3	2.0	2.0	9.3	14.6	18.6	M4	4	3.9	5.60	22	239	107	0.035	2.03×10^{-6}
10×23	25.5	17.50	1.3	2.0	2.0	9.5	14.8	18.8	M4	4	3.9	5.60	25	186	96	0.040	2.92×10^{-6}
11×24	26.5	18.40	1.3	2.0	3.0	9.5	15.8	19.8	M4	4	3.9	5.60	30	170	92	0.045	3.45×10^{-6}
12×26	28.5	20.20	1.5	2.5	3.5	10.5	18.0	22.0	M4	6	3.9	8.41	50	233	115	0.053	5.37×10^{-6}
14×28	30.5	22.20	1.5	2.5	3.5	10.5	18.0	22.0	M4	6	3.9	9.46	65	225	120	0.061	7.07×10^{-6}
15×29	31.5	23.20	1.5	2.5	3.5	11.5	19.0	23.0	M4	6	3.9	9.46	70	186	106	0.066	8.58×10^{-6}
16×30	33.0	24.20	1.6	2.5	3.5	12.0	19.6	23.6	M4	6	3.9	9.46	75	166	98	0.075	1.02×10^{-5}
17×31	33.5	25.20	1.6	2.5	3.5	12.5	20.1	24.1	M4	8	3.9	12.60	110	197	121	0.075	1.17×10^{-5}
18×32	34.5	26.20	1.6	2.5	3.5	12.5	20.1	24.1	M4	8	3.9	12.60	115	186	118	0.080	1.31×10^{-5}
19×33	35.5	27.20	1.6	2.5	3.5	12.5	20.1	24.1	M4	8	3.9	12.60	120	177	114	0.081	1.46×10^{-5}
20×38	42.0	30.80	1.8	3.0	4.0	15.3	24.1	29.1	M5	8	8.8	21.60	220	234	139	0.144	3.70×10^{-5}
22×40	44.0	32.80	1.8	3.0	4.0	15.3	24.1	29.1	M5	8	8.8	26.00	290	256	159	0.165	4.42×10^{-5}
24×42	46.0	34.80	1.8	3.0	4.0	16.3	25.1	30.1	M5	8	8.8	26.00	320	217	142	0.180	5.46×10^{-5}
25×43	47.0	35.80	1.8	3.0	4.0	17.3	26.1	31.1	M5	8	8.8	27.20	350	216	137	0.188	6.15×10^{-5}
28×46	50.0	38.80	1.8	3.5	4.0	17.3	26.6	31.6	M5	10	8.8	27.00	380	192	127	0.195	8.15×10^{-5}
30×48	52.0	40.80	1.8	3.5	4.0	17.3	26.6	31.6	M5	10	8.8	27.00	410	179	122	0.208	9.45×10^{-5}
32×50	54.0	42.80	1.8	3.5	4.0	18.3	27.6	32.6	M5	10	8.8	27.00	440	156	110	0.219	1.14×10^{-4}
35×57	62.0	48.40	2.0	4.0	4.5	19.5	30.0	36.0	M6	8	15.7	41.10	720	204	138	0.325	2.12×10^{-4}
38×60	65.0	51.40	2.0	4.0	4.5	20.0	30.5	36.5	M6	10	15.7	40.20	770	178	125	0.362	2.62×10^{-4}
40×62	67.0	53.40	2.0	4.0	4.5	20.5	31.0	37.0	M6	10	15.7	40.20	810	164	118	0.380	3.00×10^{-4}
42×64	69.0	55.40	2.0	4.0	4.5	20.5	31.0	37.0	M6	10	15.7	40.20	850	156	114	0.405	3.32×10^{-4}
45×67	72.0	58.40	2.0	4.0	4.5	21.0	31.5	37.5	M6	10	15.7	52.90	1,200	186	140	0.435	3.95×10^{-4}
48×70	75.0	61.40	2.0	4.5	4.5	21.0	32.0	38.0	M6	12	15.7	48.20	1,200	159	123	0.460	4.75×10^{-4}
50×72	77.0	63.40	2.0	4.5	4.5	21.5	32.5	38.5	M6	14	15.7	56.30	1,500	173	136	0.485	5.35×10^{-4}
55×77	83.0	68.40	2.0	4.5	4.5	21.5	32.5	38.5	M6	14	15.7	56.30	1,600	158	127	0.520	6.80×10^{-4}
60×82	87.0	73.40	2.0	5.0	4.5	22.0	33.5	39.5	M6	15	15.7	60.30	1,900	150	125	0.560	8.61×10^{-4}
65×87	92.0	78.40	2.0	5.0	4.5	22.0	33.5	39.5	M6	15	15.7	60.30	2,000	139	118	0.610	1.05×10^{-3}
70×97	103	86.20	2.0	5.0	5.1	24.0	36.1	44.1	M8	14	37.3	94.80	3,400	187	152	0.845	1.86 × 10− ³
75×102	108	91.20	2.0	5.0	5.1	24.0	36.1	44.1	M8	15	37.3	101.50	3,900	187	155	0.932	2.22×10^{-3}
80×107	113	96.20	2.0	5.0	5.1	25.0	37.1	45.1	M8	15	37.3	101.50	4,100	166	142	1.100	2.27 × 10 ⁻³
85×112	118	101.20	2.0	5.0	5.1	25.0	37.1	45.1	M8	15	37.3	101.50	4.400	157	135	1.270	3.10×10^{-3}







LOCKING ELEMENT

MAS is available for the shaft with a narrow diameter Type of rust protection as plated body and bolt Centering function is available. Decision on position is free. It has a shaft on the hub unmovable when assembled.

Safe and precise fitting system

Specifications Processing tolerance(Max) : Shaft h7,

Please use a Homepage is the latest Data and CAD

Usage

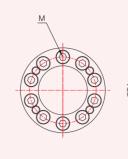
Pump, Cam, Sprocket, Pulley, etc.

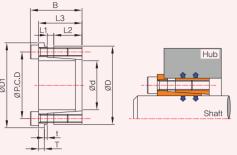
Order Method (Order Example)

MAS	25	43	
Product NO	Inner diameter : d	Outer Diameter : D	

	Dimension(mm)					Tight	tening s	screw	Tra	Transfer Surface pressure				Moment			
MAS(d x D)	D1	P.C.D	t	Т	L1	L2	L3	В	Size	Quantity	Tightening torque	Thrust	Torque	Shaft	Hub	Mass	of inertia
	mm	mm	mm	mm	mm	mm	mm	mm	M	Qty	N · m	kN	N·m	Мра	Mpa	kg	kg ⋅m²
5×16	18.5	11.7	1.2	1.8	2.0	8.0	13.0	16.0	М3	4	1.9	2.1	5	254	67	0.018	6.27 × 10 ⁻⁷
6×19	21.5	14.0	1.3	2.0	2.0	9.0	14.3	18.3	M4	4	3.9	3.5	10	323	84	0.026	1.36 × 10 ⁻⁶
6.35×20	22.5	14.35	1.3	2.0	2.0	9.0	14.3	18.3	M4	4	3.9	3.5	10	307	79	0.029	1.66 × 10 ⁻⁶
8×21	23.5	15.40	1.3	2.0	2.0	9.3	14.6	18.6	M4	4	3.9	4.1	17	244	92	0.035	2.03 × 10 ⁻⁶
10×23	25.5	17.50	1.3	2.0	2.0	9.5	14.8	18.8	M4	4	3.9	3.9	20	192	77	0.040	2.92×10^{-6}
11×24	26.5	18.40	1.3	2.0	3.0	9.5	15.8	19.8	M4	4	3.9	4.0	23	174	73	0.045	3.45×10^{-6}
12×26	28.5	20.20	1.5	2.5	3.5	10.5	18.0	22.0	M4	6	3.9	5.9	37	239	91	0.053	5.37×10^{-6}
14×28	30.5	22.20	1.5	2.5	3.5	10.5	18.0	22.0	M4	6	3.9	7.2	51	204	84	0.061	7.07×10^{-6}
15×29	31.5	23.20	1.5	2.5	3.5	11.5	19.0	23.0	M4	6	3.9	7.2	55	205	90	0.066	8.58 × 10 ⁻⁶
16×30	33.0	24.20	1.6	2.5	3.5	12.0	19.6	23.6	M4	6	3.9	7.3	59	193	87	0.075	1.02 × 10 ⁻⁵
17×31	33.5	25.20	1.6	2.5	3.5	12.5	20.1	24.1	M4	8	3.9	8.9	77	205	97	0.075	1.17 × 10 ⁻⁵
18×32	34.5	26.20	1.6	2.5	3.5	12.5	20.1	24.1	M4	8	3.9	8.9	81	166	93	0.080	1.31 × 10 ⁻⁵
19×33	35.5	27.20	1.6	2.5	3.5	12.5	20.1	24.1	M4	8	3.9	8.9	86	184	91	0.081	1.46 × 10 ⁻⁵
20×38	42.0	30.80	1.8	3.0	4.0	15.3	24.1	29.1	M5	8	8.8	18.3	183	213	97	0.144	3.70×10^{-5}
22×40	44.0	32.80	1.8	3.0	4.0	15.3	24.1	29.1	M5	8	8.8	18.3	201	193	92	0.165	4.42×10^{-5}
24×42	46.0	34.80	1.8	3.0	4.0	16.3	25.1	30.1	M5	8	8.8	21.0	252	121	105	0.180	5.46×10^{-5}
25×43	47.0	35.80	1.8	3.0	4.0	17.3	26.1	31.1	M5	8	8.8	21.1	264	212	102	0.188	6.15×10^{-5}
28×46	50.0	38.80	1.8	3.5	4.0	17.3	26.6	31.6	M5	10	8.8	21.1	295	212	107	0.195	8.15×10^{-5}
30×48	52.0	40.80	1.8	3.5	4.0	17.3	26.6	31.6	M5	10	8.8	26.4	396	198	102	0.208	9.45 × 10 ⁻⁵
32×50	54.0	42.80	1.8	3.5	4.0	18.3	27.6	32.6	M5	10	8.8	26.4	423	192	103	0.219	1.14 × 10 ⁻⁴
35×57	62.0	48.40	2.0	4.0	4.5	19.5	30.0	36.0	M6	8	15.7	31.3	548	207	105	0.325	2.12×10^{-4}
38×60	65.0	51.40	2.0	4.0	4.5	20.0	30.5	36.5	M6	10	15.7	39.0	741	208	110	0.362	2.62×10^{-4}
40×62	67.0	53.40	2.0	4.0	4.5	20.5	31.0	37.0	M6	10	15.7	39.0	779	202	110	0.380	3.00×10^{-4}
42×64	69.0	55.40	2.0	4.0	4.5	20.5	31.0	37.0	M6	10	15.7	39.2	823	192	106	0.405	3.32×10^{-4}
45×67	72.0	58.40	2.0	4.0	4.5	21.0	31.5	37.5	M6	10	15.7	39.2	882	184	104	0.435	3.95×10^{-4}
48×70	75.0	61.40	2.0	4.5	4.5	21.0	32.0	38.0	M6	12	15.7	46.5	1,117	206	118	0.460	4.75×10^{-4}
50×72	77.0	63.40	2.0	4.5	4.5	21.5	32.5	38.5	M6	14	15.7	54.4	1,362	202	119	0.485	5.35×10^{-4}







Features

The standard models from \emptyset 5 to \emptyset 50. All stainless for clean room and vacuum environment. Prevent the off centering of outer ring by centering

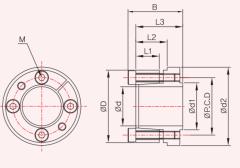
Self-locking function by narrow slope design It has a hub stationary on the axis when assembled

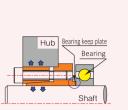
Surface roughness : Rt max $16\mu\mathrm{m}$ Specifications Processing tolerance(Max) : Shaft h7,

Pump, Cam, Sprocket, Pulley, etc. Usage

MASUS	25	43
Product NO	Inner diameter : d	Outer Diameter : D

MACHC(4 D)				Dimen	sion(mı	m)			Tightening scr	ew(DIN91	.2/12.9)	Tran	sfer	Surface	pressure		Moment
MASUS(d x D)	D1	P.C.D	t	T	L1	L2	L3	В	Size	Quantity	Tightening torque	Thrust	Torque	Shaft	Hub	Mass	of inertia
mm	mm	mm	mm	mm	mm	mm	mm	mm	М	Qty	N · m	kN	N⋅m	Мра	Mpa	kg	kg ⋅ m ²
5×16	18.5	11.7	1.2	1.8	2.0	8.0	13.0	16.0	$M3 \times 10$	4	0.9	1.2	2.8	204	42	0.018	6.27×10^{-7}
6×19	21.5	14.0	1.3	2.0	2.0	9.0	14.3	18.3	$M4 \times 12$	4	2.7	2.6	7.8	260	58	0.026	1.36×10^{-6}
6.35×20	22.5	14.35	1.3	2.0	2.0	9.0	14.3	18.3	$M4 \times 12$	4	2.7	2.6	7.8	240	53	0.029	1.66×10^{-6}
8×21	23.5	15.40	1.3	2.0	2.0	9.3	14.6	18.6	$M4 \times 12$	4	2.7	2.7	10.7	196	62.6	0.035	2.03×10^{-6}
10×23	25.5	17.50	1.3	2.0	2.0	9.5	14.8	18.8	$M4 \times 12$	4	2.7	2.6	12.7	153	55.9	0.040	2.92×10^{-6}
11×24	26.5	18.40	1.3	2.0	3.0	9.5	15.8	19.8	$M4 \times 12$	4	2.7	2.7	14.7	139	53.6	0.045	3.45×10^{-6}
12×26	28.5	20.20	1.5	2.5	3.5	10.5	18.0	22.0	$M4 \times 15$	6	2.7	4	24.5	191	67.1	0.053	5.37×10^{-6}
14×28	30.5	22.20	1.5	2.5	3.5	10.5	18.0	22.0	$M4 \times 15$	6	2.7	4	28.4	164	62.3	0.061	7.07×10^{-6}
15×29	31.5	23.20	1.5	2.5	3.5	11.5	19.0	23.0	$M4 \times 15$	6	2.7	4	30.4	136	55.0	0.066	8.58×10^{-6}
16×30	33.0	24.20	1.6	2.5	3.5	12.0	19.6	23.6	$M4 \times 15$	6	2.7	4	32.3	121	50.9	0.075	1.02×10^{-5}
17×31	33.5	25.20	1.6	2.5	3.5	12.5	20.1	24.1	$M4 \times 15$	8	2.7	5.4	46.1	144	63.1	0.075	1.17×10^{-5}
18×32	34.5	26.20	1.6	2.5	3.5	12.5	20.1	24.1	$M4 \times 15$	8	2.7	5.4	49	136	61.2	0.080	1.31×10^{-5}
19×33	35.5	27.20	1.6	2.5	3.5	12.5	20.1	24.1	$M4 \times 15$	8	2.7	5.4	51.9	129	59.2	0.081	1.46×10^{-5}
20×38	42.0	30.80	1.8	3.0	4.0	15.3	24.1	29.1	$M5 \times 18$	8	5.6	12.2	121.6	165	69.8	0.144	3.70×10^{-5}
22×40	44.0	32.80	1.8	3.0	4.0	15.3	24.1	29.1	$M5 \times 18$	8	5.6	12.1	133.4	150	66.3	0.165	4.42×10^{-5}
24×42	46.0	34.80	1.8	3.0	4.0	16.3	25.1	30.1	$M5 \times 18$	8	5.6	12.2	146.1	128	59.2	0.180	5.46×10^{-5}
25×43	47.0	35.80	1.8	3.0	4.0	17.3	26.1	31.1	$M5 \times 18$	8	5.6	12.2	153	122	54.5	0.188	6.15×10^{-5}
28×46	50.0	38.80	1.8	3.5	4.0	17.3	26.6	31.6	$M5 \times 18$	10	5.6	15.2	213.8	136	63.7	0.195	8.15×10^{-5}
30×48	52.0	40.80	1.8	3.5	4.0	17.3	26.6	31.6	$M5 \times 18$	10	5.6	15.3	229.5	127	61.1	0.208	9.45×10^{-5}
32×50	54.0	42.80	1.8	3.5	4.0	18.3	27.6	32.6	$M5 \times 18$	10	5.6	15.2	244.2	110	55.4	0.219	1.14×10^{-4}
35×57	62.0	48.40	2.0	4.0	4.5	19.5	30.0	36.0	$M6 \times 20$	8	9.6	17.2	301.1	107	51.4	0.325	2.12×10^{-4}
38×60	65.0	51.40	2.0	4.0	4.5	20.0	30.5	36.5	$M6 \times 20$	10	9.6	21.5	409	119	59.5	0.362	2.62×10^{-4}
40×62	67.0	53.40	2.0	4.0	4.5	20.5	31.0	37.0	$M6 \times 20$	10	9.6	21.5	430.6	110	56.2	0.380	3.00×10^{-4}
42×64	69.0	55.40	2.0	4.0	4.5	20.5	31.0	37.0	$M6 \times 20$	10	9.6	21.5	452.2	105	54.4	0.405	3.32×10^{-4}
45×67	72.0	58.40	2.0	4.0	4.5	21.0	31.5	37.5	$M6 \times 20$	10	9.6	21.5	484.6	95	50.8	0.435	3.95×10^{-4}
48×70	75.0	61.40	2.0	4.5	4.5	21.0	32.0	38.0	$M6 \times 20$	12	9.6	25.8	620.9	107	58.4	0.460	4.75×10^{-4}
50×72	77.0	63.40	2.0	4.5	4.5	21.5	32.5	38.5	$M6 \times 20$	14	9.6	30.1	754.3	116	64.6	0.485	5.35 × 10 ⁻⁴





Aluminum pulley, aluminum timing

Specifications Processing tolerance(Max) : Shaft h7,

belt, resins gear, etc

Features

LOCKING ELEMENT

DRAP is available for the shaft with a narrow diameter Material is aluminum

High-speed use as low inertia

It has a shaft on the hub unmovable when assembled.

Centering function is available.

It has a small bearing pressure, but a large transmission.

Usage

Aluminum pulley, aluminum timing belt, resins gear, etc

Surface roughness : Rt max $16\mu\mathrm{m}$ Specifications Processing tolerance(Max) : Shaft h7,

Please use a Homepage is the latest Data and CAD

Hub H7

Order Method
(Order Example)

DRAP	25	43
Product NO	Inner diameter : d	Outer Diameter : D

			Dim	ension(mm)				Tigh	tening s	crew	Trai	nsfer	Surface	pressure		
DRAP(d x D)	D1	P.C.D	t	Т	L1	L2	L3	В	Size	Quantity		Thrust	Torque	Shaft	Hub	Mass	Moment of inertia
	mm	mm	mm	mm	mm	mm	mm	mm	М	Qty	N·m	kN	N·m	Мра	Mpa	kg	kg ⋅m²
5×16	18.5	11.7	1.2	1.8	2.0	8.0	13.0	16.0	М3	4	1.9	2.1	5	210	58	0.007	2.63 × 10 ⁻⁷
6×19	21.5	14	1.3	2.0	2.0	9.0	14.3	18.3	M4	4	3.9	3.5	10	275	77	0.010	6.13×10^{-7}
6.35×20	22.5	14.35	1.3	2.0	2.0	9.0	14.3	18.3	M4	4	3.9	3.5	10	260	73	0.011	6.16×10^{-7}
8×21	23.5	15.4	1.3	2.0	2.0	9.3	14.6	18.6	M4	4	3.9	4.1	17	213	72	0.013	8.74×10^{-7}
10×23	25.5	17.5	1.3	2.0	2.0	9.5	14.8	18.8	M4	4	3.9	3.9	20	166	65	0.015	1.23×10^{-6}
11×24	26.5	18.4	1.3	2.0	3.0	9.5	15.8	19.8	M4	4	3.9	4.0	23	151	62	0.017	1.44 × 10 ⁻⁶
12×26	28.5	20.2	1.5	2.5	3.5	10.5	18.0	22.0	M4	6	3.9	5.9	37	186	78	0.020	2.38×10^{-6}
14×28	30.5	22.2	1.5	2.5	3.5	10.5	18.0	22.0	M4	6	3.9	7.2	51	159	72	0.023	3.08×10^{-6}
15×29	31.5	23.2	1.5	2.5	3.5	11.5	19.0	23.0	M4	6	3.9	7.2	55	135	64	0.025	3.66×10^{-6}
16×30	33.0	24.2	1.6	2.5	3.5	12.0	19.6	23.6	M4	6	3.9	7.3	59	120	59	0.028	4.28×10^{-6}
17×31	33.5	25.2	1.6	2.5	3.5	12.5	20.1	24.1	M4	8	3.9	8.9	77	145	73	0.028	5.13 × 10 ⁻⁶
18×32	34.5	26.2	1.6	2.5	3.5	12.5	20.1	24.1	M4	8	3.9	8.9	81	136	71	0.030	5.71 × 10 ⁻⁶
19×33	35.5	27.2	1.6	2.5	3.5	12.5	20.1	24.1	M4	8	3.9	8.9	86	129	68	0.031	7.20×10^{-6}
20×38	42.0	30.8	1.8	3.0	4.0	15.3	24.1	29.1	M5	8	8.8	18.3	183	194	95	0.053	1.55 × 10 ⁻⁵
22×40	44.0	32.8	1.8	3.0	4.0	15.3	24.1	29.1	M5	8	8.8	18.3	201	179	92	0.060	1.84 × 10 ⁻⁵
24×42	46.0	34.8	1.8	3.0	4.0	16.3	25.1	30.1	M5	8	8.8	21.0	252	155	83	0.065	2.23 × 10 ⁻⁵
25 × 4 3	47.0	35.8	1.8	3.0	4.0	17.3	26.1	31.1	M5	8	8.8	21.1	264	136	74	0.068	2.49×10^{-5}
28×46	50.0	38.8	1.8	3.5	4.0	17.3	26.6	31.6	M5	10	8.8	21.1	295	152	87	0.071	3.36 × 10 ⁻⁵
30×48	52.0	40.8	1.8	3.5	4.0	17.3	26.6	31.6	M5	10	8.8	26.4	396	142	83	0.076	3.86 × 10 ⁻⁵
32×50	54.0	42.8	1.8	3.5	4.0	18.3	27.6	32.6	M5	10	8.8	26.4	423	125	76	0.080	4.60 × 10 ⁻⁵
35×57	62.0	48.4	2.0	4.0	4.5	19.5	30.0	36.0	M6	8	15.7	31.3	548	136	79	0.117	8.46 × 10 ⁻⁵

Features

DRMC is available for the shaft with a narrow diameter Material is aluminum

High-speed use as low inertia

Decision on position is free.

It has a shaft on the hub unmovable when assembled.

As fewer bolts, desorption time is shortened.

Bearing pressure plate is designed on the body

The surface pressure is small, but it has a large transfer force.

Centering function is available.

Cautions

If the bearing needs initial clamping force, another tool is required.

Order Method (Order Example)

DRMC	25	42
Product NO	Inner diameter : d	Outer Diameter : D

Usage

Mmm mm M Qty N-m NLM N-m Mpa Mpa kg kg-m² 4×15 6.5 17.5 10.1 6.5 9 13 15.5 M2.5×12 4 0.9 1.00 2.2 134 35 0.006 1.99×10~7 5×16 7.5 19 11.1 6.5 9 13 15.5 M2.5×12 4 0.9 1.00 2.2 134 35 0.006 1.99×10~7 6 17 8.5 20 12.1 6.5 9 13 15.5 M2.5×12 4 0.9 1.00 2.5 121 35 0.007 2.65×10~7 6 1.9 1.1 2.7 1.02 1.5 17.5 M2.5×12 4 0.9 1.63 8 1.0 1.0 1.0 1.0 2.2 1.0 <td< th=""><th>DRMC(d x D)</th><th></th><th></th><th>Dir</th><th>mension</th><th>(mm)</th><th></th><th></th><th>Tighten</th><th colspan="3">Tightening screw</th><th>nsfer</th><th>Surface</th><th>oressure</th><th>Macc</th><th>Mass Moment</th></td<>	DRMC(d x D)			Dir	mension	(mm)			Tighten	Tightening screw			nsfer	Surface	oressure	Macc	Mass Moment
4×15 6.5 17.5 10.1 6.5 9 13 15.5 M2.5×12 4 0.9 1.00 2.0 151 37 0.006 1.99×10 ⁻⁷ 4.5×16 7.5 19 11.1 6.5 9 13 15.5 M2.5×12 4 0.9 1.00 2.2 134 35 0.006 1.99×10 ⁻⁷ 5×16 7.5 19 11.1 6.5 9 13 15.5 M2.5×12 4 0.9 1.00 2.5 121 35 0.007 2.65×10 ⁻⁷ 6×17 8.5 20 12.1 6.5 9 13 15.5 M2.5×12 4 0.9 1.63 8 10 0.00 2.65×10 ⁻⁷ 8×19 11 22 14.1 7.5 10 15 17.5 M2.5×14 4 0.9 1.63 8 10 0.01 5.5 10.5 12.5×14 4 0.9 1.63 8 10 40	DRIVIC(u x D)	d1	d2	P.C.D	L1	L2	L3	В	Size	Quantity	Tightening torque	Thrust	Torque	Shaft	Hub	IVIdSS	of inertia
4.5×16 7.5 19 11.1 6.5 9 13 15.5 M2.5×12 4 0.9 1.00 2.2 134 35 0.006 1.99×10 ⁻⁷ 5×16 7.5 19 11.1 6.5 9 13 15.5 M2.5×12 4 0.9 1.00 2.5 121 35 0.007 2.65×10 ⁻⁷ 6×17 8.5 20 12.1 6.5 9 13 15.5 M2.5×12 4 0.9 1.33 4.0 151 49 0.008 3.31×10 ⁻⁷ 8×19 11 22 14.1 7.5 10 15 17.5 M2.5×14 4 0.9 1.63 8 104 46 0.01 8.55×10 ⁻⁷ 10×21 13 24 16.1 7.5 10 15 17.5 M2.5×14 4 0.9 1.66 9 88 41 0.01 85×10 ⁻⁷ 11×22 14 25 17.1 8 11 17 19.5 <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>М</th> <th>Qty</th> <th>N·m</th> <th>kN</th> <th>N · m</th> <th>Mpa</th> <th>Мра</th> <th>kg</th> <th>kg ∙m²</th>	mm	mm	mm	mm	mm	mm	mm	mm	М	Qty	N·m	kN	N · m	Mpa	Мра	kg	kg ∙m²
5×16 7.5 19 11.1 6.5 9 13 15.5 M2.5×12 4 0.9 1.00 2.5 121 35 0.007 2.65×10 ⁻⁷ 6×17 8.5 20 12.1 6.5 9 13 15.5 M2.5×12 4 0.9 1.33 4.0 151 49 0.008 3.31×10 ⁻⁷ 8×19 11 22 14.1 7.5 10 15 17.5 M2.5×14 4 0.9 1.61 6.0 129 51 0.011 5.95×10 ⁻⁷ 10×21 13 24 16.1 7.5 10 15 17.5 M2.5×14 4 0.9 1.66 9 88 41 0.014 1.08×10 ⁻⁶ 12×24 15 27 19.2 9 12 18 20.5 M2.5×15 5 0.9 1.99 12 89 42 0.017 1.62×10 ⁻⁶ 14×26 17 29 21.2 9	4 × 15	6.5	17.5	10.1	6.5	9	13	15.5	$M2.5 \times 12$	4	0.9	1.00	2.0	151	37	0.006	1.99×10^{-7}
6 × 17 8.5 20 12.1 6.5 9 13 15.5 M2.5 × 12 4 0.9 1.33 4.0 151 49 0.008 3.31 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×	4.5 × 16	7.5	19	11.1	6.5	9	13	15.5	$M2.5 \times 12$	4	0.9	1.00	2.2	134	35	0.006	1.99×10^{-7}
8 × 19 11 22 14.1 7.5 10 15 17.5 M2.5 × 14 4 0.9 1.51 6.0 129 51 0.011 5.95 × 10 ⁻⁷ 10 × 21 13 24 16.1 7.5 10 15 17.5 M2.5 × 14 4 0.9 1.63 8 104 46 0.012 8.52 × 10 ⁻⁷ 11 × 22 14 25 17.1 8 11 17 19.5 M2.5 × 14 4 0.9 1.66 9 88 41 0.014 1.08 × 10 ⁻⁶ 12 × 24 15 27 19.2 9 12 18 20.5 M2.5 × 15 5 0.9 1.99 12 89 42 0.017 1.62 × 10 ⁻⁶ 14 × 26 17 29 21.2 9 12 18 20.5 M2.5 × 15 6 0.9 2.56 18 91 47 0.019 2.16 × 10 ⁻⁶ 15 × 28 18.5 31 22	5×16	7.5	19	11.1	6.5	9	13	15.5	$M2.5 \times 12$	4	0.9	1.00	2.5	121	35	0.007	2.65×10^{-7}
10×21 13 24 16.1 7.5 10 15 17.5 M2.5×14 4 0.9 1.63 8 104 46 0.012 8.52×10 ⁻⁷ 11×22 14 25 17.1 8 11 17 19.5 M2.5×14 4 0.9 1.66 9 88 41 0.014 1.08×10 ⁻⁶ 12×24 15 27 19.2 9 12 18 20.5 M2.5×15 5 0.9 1.99 12 89 42 0.017 1.62×10 ⁻⁶ 14×26 17 29 21.2 9 12 18 20.5 M2.5×15 6 0.9 2.56 18 91 47 0.019 2.16×10 ⁻⁶ 15×28 18.5 31 22.2 9.5 13 20 23 M3.×18 4 1.5 3.34 25 79 38 0.024 31.8×10 ⁻⁶ 16×29 19.5 32 23.2 9.5	6×17	8.5	20	12.1	6.5	9	13	15.5	$M2.5 \times 12$	4	0.9	1.33	4.0	151	49	800.0	3.31×10^{-7}
11 × 22	8×19	11	22	14.1	7.5	10	15	17.5	$M2.5 \times 14$	4	0.9	1.51	6.0	129	51	0.011	5.95×10^{-7}
12 × 24 15 27 19.2 9 12 18 20.5 M2.5×15 5 0.9 1.99 12 89 42 0.017 1.62×10-6 14 × 26 17 29 21.2 9 12 18 20.5 M2.5×15 6 0.9 2.56 18 91 47 0.019 2.16×10-6 15 × 28 18.5 31 22.2 9.5 13 20 23 M3×18 4 1.5 3.34 25 79 38 0.024 3.18×10-6 16 × 29 19.5 32 23.2 9.5 13 20 23 M3×18 4 1.5 3.34 26 74 37 0.025 3.50×10-6 17 × 30 20.5 33 24 10 14 21 24 M3×18 4 1.5 3.18 27 66 34 0.028 4.23×10-6 18 × 31 21.5 34 25 10 14 21 24 M3×18 5 1.5 3.23 29 78 41 </th <td>10×21</td> <td>13</td> <td>24</td> <td>16.1</td> <td>7.5</td> <td>10</td> <td>15</td> <td>17.5</td> <td>$M2.5 \times 14$</td> <td>4</td> <td>0.9</td> <td>1.63</td> <td>8</td> <td>104</td> <td>46</td> <td>0.012</td> <td>8.52×10^{-7}</td>	10×21	13	24	16.1	7.5	10	15	17.5	$M2.5 \times 14$	4	0.9	1.63	8	104	46	0.012	8.52×10^{-7}
14 × 26 17 29 21.2 9 12 18 20.5 M2.5 × 15 6 0.9 2.56 18 91 47 0.019 2.16 × 10-6 15 × 28 18.5 31 22.2 9.5 13 20 23 M3 × 18 4 1.5 3.34 25 79 38 0.024 3.18 × 10-6 16 × 29 19.5 32 23.2 9.5 13 20 23 M3 × 18 4 1.5 3.34 26 74 37 0.025 3.50 × 10-6 17 × 30 20.5 33 24 10 14 21 24 M3 × 18 4 1.5 3.18 27 66 34 0.028 4.23 × 10-6 18 × 31 21.5 34 25 10 14 21 24 M3 × 18 5 1.5 3.23 29 78 41 0.029 4.75 × 10-6 19 × 32 22.5 35 26 10 14 21 24 M3 × 18 5 1.5 3.50 33 74<	11 × 22	14	25	17.1	8	11	17	19.5	$M2.5 \times 14$	4	0.9	1.66	9	88	41	0.014	1.08×10^{-6}
15 × 28	12×24	15	27	19.2	9	12	18	20.5	$M2.5 \times 15$	5	0.9	1.99	12	89	42	0.017	1.62×10^{-6}
16 × 29 19.5 32 23.2 9.5 13 20 23 M3×18 4 1.5 3.34 26 74 37 0.025 3.50×10-6 17 × 30 20.5 33 24 10 14 21 24 M3×18 4 1.5 3.18 27 66 34 0.028 4.23×10-6 18 × 31 21.5 34 25 10 14 21 24 M3×18 5 1.5 3.23 29 78 41 0.029 4.75×10-6 19 × 32 22.5 35 26 10 14 21 24 M3×18 5 1.5 3.23 29 78 41 0.029 4.75×10-6 20 × 37 24 40 29.4 12 16 24 28 M4×20 4 3.5 5.47 54 92 46 0.047 1.06×10-5 22 × 39 26 42 31.4 12 16 24 28 M4×20 4 3.5 5.94 65 83 43	14×26	17	29	21.2	9	12	18	20.5	$M2.5 \times 15$	6	0.9	2.56	18	91	47	0.019	2.16×10^{-6}
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15×28	18.5	31	22.2	9.5	13	20	23	M3×18	4	1.5	3.34	25	79	38	0.024	3.18×10^{-6}
18×31 21.5 34 25 10 14 21 24 M3×18 5 1.5 3.23 29 78 41 0.029 4.75×10 ⁻⁶ 19×32 22.5 35 26 10 14 21 24 M3×18 5 1.5 3.50 33 74 40 0.030 5.32×10 ⁻⁶ 20×37 24 40 29.4 12 16 24 28 M4×20 4 3.5 5.47 54 92 46 0.047 1.06×10 ⁻⁵ 22×39 26 42 31.4 12 16 24 28 M4×20 4 3.5 5.94 65 83 43 0.052 1.33×10 ⁻⁵ 24×41 28 45 33.3 13 18 26 30 M4×22 5 3.5 7.07 85 84 46 0.057 1.67×10 ⁻⁵ 25×42 29 46 34.3 13.5 19 28 32 M4×22 6 3.5 8.77 110 97 53 <	16×29	19.5	32	23.2	9.5	13	20	23	M3×18	4	1.5	3.34	26	74	37	0.025	3.50×10^{-6}
19×32	17×30	20.5	33	24	10	14	21	24	M3×18	4	1.5	3.18	27	66	34	0.028	4.23×10^{-6}
20×37 24 40 29.4 12 16 24 28 M4 × 20 4 3.5 5.47 54 92 46 0.047 1.06 × 10 ⁻⁵ 22 × 39 26 42 31.4 12 16 24 28 M4 × 20 4 3.5 5.94 65 83 43 0.052 1.33 × 10 ⁻⁵ 24 × 41 28 45 33.3 13 18 26 30 M4 × 22 5 3.5 7.07 85 84 46 0.057 1.67 × 10 ⁻⁵ 25 × 42 29 46 34.3 13.5 19 28 32 M4 × 22 6 3.5 8.77 110 97 53 0.067 2.08 × 10 ⁻⁵ 28 × 45 32 49 37.3 13.5 19 28 32 M4 × 22 7 3.5 8.91 125 101 57 0.073 2.65 × 10 ⁻⁵ 30 × 50 34.5 55 40.8 14.5 <td>18×31</td> <td>21.5</td> <td>34</td> <td>25</td> <td>10</td> <td>14</td> <td>21</td> <td>24</td> <td>M3×18</td> <td>5</td> <td>1.5</td> <td>3.23</td> <td>29</td> <td>78</td> <td>41</td> <td>0.029</td> <td>4.75×10^{-6}</td>	18×31	21.5	34	25	10	14	21	24	M3×18	5	1.5	3.23	29	78	41	0.029	4.75×10^{-6}
22 × 39 26 42 31.4 12 16 24 28 M4 × 20 4 3.5 5.94 65 83 43 0.052 1.33 × 10 ⁻⁵ 24 × 41 28 45 33.3 13 18 26 30 M4 × 22 5 3.5 7.07 85 84 46 0.057 1.67 × 10 ⁻⁵ 25 × 42 29 46 34.3 13.5 19 28 32 M4 × 22 6 3.5 8.77 110 97 53 0.067 2.08 × 10 ⁻⁵ 28 × 45 32 49 37.3 13.5 19 28 32 M4 × 22 7 3.5 8.91 125 101 57 0.073 2.65 × 10 ⁻⁵ 30 × 50 34.5 55 40.8 14.5 20 30 35 M5 × 25 5 7.0 12.08 180 99 56 0.101 4.46 × 10 ⁻⁵ 32 × 53 36.5 58 43.3 <td>19×32</td> <td>22.5</td> <td>35</td> <td>26</td> <td>10</td> <td>14</td> <td>21</td> <td>24</td> <td>M3×18</td> <td>5</td> <td>1.5</td> <td>3.50</td> <td>33</td> <td>74</td> <td>40</td> <td>0.030</td> <td>5.32×10^{-6}</td>	19×32	22.5	35	26	10	14	21	24	M3×18	5	1.5	3.50	33	74	40	0.030	5.32×10^{-6}
24 × 41 28 45 33.3 13 18 26 30 M4 × 22 5 3.5 7.07 85 84 46 0.057 1.67 × 10 ⁻⁵ 25 × 42 29 46 34.3 13.5 19 28 32 M4 × 22 6 3.5 8.77 110 97 53 0.067 2.08 × 10 ⁻⁵ 28 × 45 32 49 37.3 13.5 19 28 32 M4 × 22 7 3.5 8.91 125 101 57 0.073 2.65 × 10 ⁻⁵ 30 × 50 34.5 55 40.8 14.5 20 30 35 M5 × 25 5 7.0 12.08 180 99 56 0.101 4.46 × 10 ⁻⁵ 32 × 53 36.5 58 43.3 14.5 20 30 35 M5 × 25 6 7.0 13.13 210 104 59 0.112 5.55 × 10 ⁻⁵	20 × 37	24	40	29.4	12	16	24	28	$M4 \times 20$	4	3.5	5.47	54	92	46	0.047	1.06×10^{-5}
25 × 42 29 46 34.3 13.5 19 28 32 M4 × 22 6 3.5 8.77 110 97 53 0.067 2.08 × 10 ⁻⁵ 28 × 45 32 49 37.3 13.5 19 28 32 M4 × 22 7 3.5 8.91 125 101 57 0.073 2.65 × 10 ⁻⁵ 30 × 50 34.5 55 40.8 14.5 20 30 35 M5 × 25 5 7.0 12.08 180 99 56 0.101 4.46 × 10 ⁻⁵ 32 × 53 36.5 58 43.3 14.5 20 30 35 M5 × 25 6 7.0 13.13 210 104 59 0.112 5.55 × 10 ⁻⁵	22 × 39	26	42	31.4	12	16	24	28	$M4 \times 20$	4	3.5	5.94	65	83	43	0.052	1.33×10^{-5}
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	24 × 41	28	45	33.3	13	18	26	30	$M4 \times 22$	5	3.5	7.07	85	84	46	0.057	1.67 × 10 ^{−5}
30×50 34.5 55 40.8 14.5 20 30 35 M5×25 5 7.0 12.08 180 99 56 0.101 4.46×10 ⁻⁵ 32×53 36.5 58 43.3 14.5 20 30 35 M5×25 6 7.0 13.13 210 104 59 0.112 5.55×10 ⁻⁵	25 × 42	29	46	34.3	13.5	19	28	32	$M4 \times 22$	6	3.5	8.77	110	97	53	0.067	2.08×10^{-5}
32×53 36.5 58 43.3 14.5 20 30 35 M5×25 6 7.0 13.13 210 104 59 0.112 5.55×10 ⁻⁵	28 × 45	32	49	37.3	13.5	19	28	32	M4×22	7	3.5	8.91	125	101	57	0.073	2.65×10^{-5}
	30 × 50	34.5	55	40.8	14.5	20	30	35	M5×25	5	7.0	12.08	180	99	56	0.101	4.46×10^{-5}
35 × 56 40 62 46.4 16 22.5 33 38 M5 × 28 6 7.0 13.13 230 92 54 0.134 7.61 × 10 ⁻⁵	32 × 53	36.5	58	43.3	14.5	20	30	35	M5×25	6	7.0	13.13	210	104	59	0.112	5.55×10^{-5}
	35 × 56	40	62	46.4	16	22.5	33	38	$M5 \times 28$	6	7.0	13.13	230	92	54	0.134	7.61×10^{-5}



Locknut of DURIMITEC is used to fix mechanical parts such as bearings to the rotating body. The thread rating and the perpendicularity of the bearing cross-section are important for proper securing and should not be loosened.

Our Locknuts are produced in compliance with ISO standards, and excellent in screw accuracy and prpendicularity.

They range from general nuts to vibration-resistant locknuts with anti-loosening functions. In addition, our products have confirmed the accuracy of the locknuts to maintain strict quality control.



LOCKNUT Techincal data

LOCKNUT Technical data

Features

It can be used to clamp the main axis for the machine tool, and the ball screw support bearing for high precision, compatible with other common nuts.

Our product can be safely used against green procurements such as RoHS and JIG24, which have fully met the standard. Also, Lock Nut can be produced in the process of checking precision on each product for improved quality control.

Loose stopping nut(KAN) has a high precision and a good vibration proof.

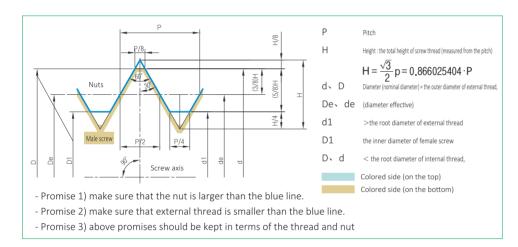
Specifications

- Material: brass pin: C3604(environmentally supplied), Main body: S45C, Set screw: SCM435
- Hardness: HRC 22~28, Surface process: black oxide coating, Thread Accuracy: ISO 4H
- perpendicularity: 0.002~0.007mm
- X Any product has no set screw with it.

ISO standard

Duri Locknut has been produced according to the ISO standard.

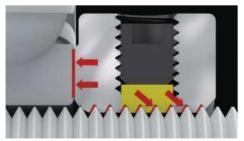
The shape, dimensions and shape of the threads are automatically determined by the pitch of the screw, not by the nominal diameter.



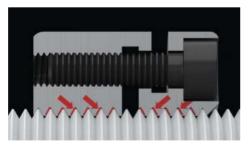
Usage

Type of Nut can be selected according to where it is used, how it is and what is surrounded.

× — part is action part of friction against loosening



▲ KZM nut etc. A large thrust load can be given. Balancing is outstanding.



▲ KAN nut etc. Neutral fixing is possible with high vibration proof. Balancing is outstanding.

Please use a Homepage is the latest Data and CAD

About self-locking effect

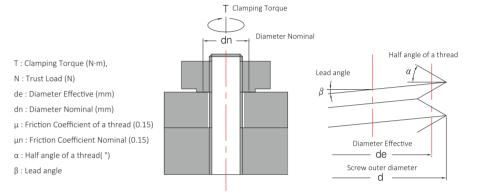
Once the nut is clamped, the material tends to break down. This leads to the loss of its elasticity, or the slits caused by mechanical vibrations result in both weak tension and friction. That's how the loose stopper happens. It's important that the tension is always made to work on the thread for the screw to be tightened.

LOCKNUT Technical data

How to calculate clamping torque and thrust load

The following expression can be applied to calculate the clamping torque and thrust load for the screw

$$T = N \left\{ \frac{de}{2} \left(\frac{\mu}{COS\alpha} + tan\beta \right) + \mu n \cdot \frac{dn}{2} \right\} \cdot 10^{-3} [N \cdot m]$$



What makes clamping force in fixing precision bearings

Clamp a spacer or the minimum bearing area on the inner race with the axial force which can generate an internal force of $10^{\sim}15$ MPa.

Clamping force = the minimum area x 10~15MPa

Note: When the heat shrink fitting is applied, the product can be clamped with a force of 20MP, kept cool at room temperature and then clamped again with the standard torque after being loosened.

About functions of Set Screw

The Screw can adjust any angularity on the section.

The loose stopping lock of a set screw can work only when it is clamped, and once the machine starts, take care to keep it working.

It cannot be replaced with any gauge

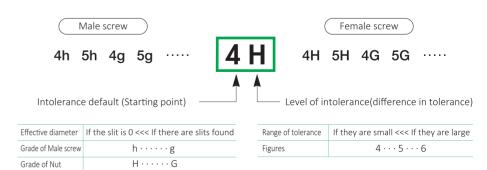
Duri Lock Nut has a high precision in designing, but cannot be replaced with any gauge due to its low rigidity and a large wear on the nut. Several replacements may result in a deviation in the diameter effective from the standard.

About Precision Level

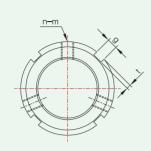
The level describes "any slit" between an external thread and a nut, as well as the shape and dimensions. The combined thread with narrow slits in it can have a good level in the precision. A good example includes a combination of external thread 5g and nut 5H, external 4h and Nut 4H.

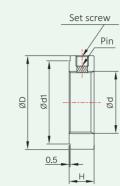
Note: combination of 4h and 4H has the smallest slit (or the highest precision level)

How to refer to the Level



XA sampling confirmation has been conducted in terms of the level of pitch. (Referred to as the deviation precision for each thread)





Usage

- Main Axis of a machine tool, Ball Screw Support Bearing Precise spindle, Precise test machine

Order Method (Order Example)

KZM	30	1.5
Product NO	d	Pitch

Please use a Homepage is the latest Data and CAD

- Material : S45C Specifications - Hardness : HRC 22 - 28

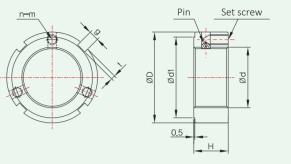
- Surface treatment: Black phosphated coating

- Thread Accuracy : ISO4H

- Perpendicularity : 0.002 ~ 0.007

2 1			Dimension(mm)					
Product NO.	D	Н	g	t	d1	Set S	crew	Mass
d X pitch	mm	mm	mm	mm	mm	n-m	N·m	g
KZM8×0.75	16	8	3	2	11	2-M4	2	4
KZM10×0.75	18	8	3	2	13	2-M4	2	8
KZM10×1	18	8	3	2	13	2-M4	2	8
KZM12×1	22	8	3	2	16	2-M4	2	14
KZM15×1	25	8	3	2	20	2-M4	2	18
KZM17×1	28	10	4	2	23	2-M5	4.5	28
KZM20×1	32	10	4	2	26	3-M5	4.5	34
KZM22×1	38	10	4	3	27	3-M4	2	52
KZM25×1.5	38	12	5	2	32	3-M6	8	58
KZM30×1.5	45	12	5	2	39	3-M6	8	78
KZM35×1.5	52	12	5	2	46	3-M6	8	104
KZM40×1.5	58	14	6	2.5	51	3-M6	8	148
$KZM45 \times 1.5$	65	14	6	2.5	58	3-M6	8	184
KZM50×1.5	70	14	6	2.5	63	3-M6	8	200
KZM55×2	75	16	7	3	67	3-M8	18	246
KZM60×2	80	16	7	3	72	3-M8	18	270
KZM65×2	85	16	7	3	77	3-M8	18	290
KZM70×2	92	18	8	3.5	83	3-M8	18	398
KZM75×2	98	18	8	3.5	89	3-M8	18	434
KZM80×2	105	18	8	3.5	96	3-M8	18	504
$KZM85 \times 2$	110	18	8	3.5	101	3-M8	18	532
KZM90×2	120	20	10	4	108	3-M8	18	762
$KZM95 \times 2$	125	20	10	4	113	3-M8	18	796
KZM100×2	130	20	10	4	118	3-M8	18	836
KZM105×2	140	22	12	5	125	3-M8	18	1,130
KZM110×2	145	22	12	5	132	3-M8	18	1,172
KZM115×2	150	22	12	5	137	3-M8	18	1.270
KZM120×2	155	24	12	5	142	3-M8	18	1,390
$KZM125 \times 2$	160	24	12	5	147	3-M8	18	1,450
KZM130×2	165	24	12	5	152	3-M8	18	1,500
$KZM135 \times 2$	175	26	14	6	160	3-M10	35	1,930
KZM140×2	180	26	14	6	165	3-M10	35	1,950
KZM145×2	190	26	14	6	175	3-M10	35	2,380
KZM150×2	195	26	14	6	180	3-M10	35	2,440
KZM155×3	200	28	16	7	180	3-M10	35	2,760
KZM160×3	210	28	16	7	190	3-M10	35	3,160
KZM165×3	210	28	16	7	190	3-M10	35	3,300
KZM170×3	220	28	16	7	200	3-M10	35	3,315
KZM180×3	230	30	18	8	205	3-M12	60	3,690
KZM190×3	240	30	18	8	215	3-M12	60	3,880
KZM200×3	250	32	18	8	225	3-M12	60	4,370





Features

- Set screw can be fitted at the shaft direction.

Usage

- Main Axis of a machine tool, Ball Screw Support Bearing Precise spindle, Precise test machine

Specifications

- Material : S45C

- Hardness : HRC 22 - 28

- Surface treatment: Black phosphated coating

- Thread Accuracy : ISO4H

- Perpendicularity : 0.002 ~ 0.007

KZMV	30	1.5
Product NO	d	Pitch

Product NO.			Dimension(mm)		Set So	oro	N.4	
Product NO.	D	Н	g	t	d1	261.20	crew	Mass
d X pitch	mm	mm	mm	mm	mm	n-m	N·m	g
KZMV17×1	28	15	4	2	23	2-M4	2	40
KZMV20×1	32	15	4	2	26	3-M4	2	56
KZMV25×1.5	38	17	5	2	32	3-M5	4.5	80
KZMV30×1.5	45	17	5	2	39	3 -M 5	4.5	130
KZMV35 \times 1.5	52	17	5	2	46	3 -M 5	4.5	170
KZMV40×1.5	58	19	6	2.5	51	3-M6	8	220
KZMV45×1.5	65	19	6	2.5	58	3-M6	8	270
KZMV50×1.5	70	19	6	2.5	63	3-M6	8	310
KZMV55×2	75	21	7	3	67	3-M6	8	340
KZMV60×2	80	21	7	3	72	3-M6	8	390
KZMV65×2	85	21	7	3	77	3-M6	8	430
KZMV70×2	92	23	8	3.5	83	3-M8	18	550
KZMV75×2	98	23	8	3.5	89	3-M8	18	620
KZMV80×2	105	23	8	3.5	96	3-M8	18	710
KZMV85×2	110	23	8	3.5	101	3-M8	18	740
KZMV90×2	120	25	10	4	108	3-M8	18	1,020
KZMV95×2	125	25	10	4	113	3-M8	18	1,080
KZMV100×2	130	25	10	4	118	3-M8	18	1,100
KZMV105×2	140	27	12	5	125	3-M10	35	1,480
KZMV110×2	145	27	12	5	132	3-M10	35	1,570
KZMV115×2	150	27	12	5	137	3-M10	35	1,600
KZMV120×2	155	29	12	5	142	3-M10	35	1,760
KZMV125×2	160	29	12	5	147	3-M10	35	1,820
KZMV130×2	165	29	12	5	152	3-M10	35	1,890
KZMV135×2	175	31	14	6	160	3-M12	60	2,400
KZMV140×2	180	31	14	6	165	3-M12	60	2,470
$KZMV145 \times 2$	190	31	14	6	175	3-M12	60	2,960
KZMV150×2	195	31	14	6	180	3-M12	60	3,020
KZMV155×3	200	33	16	7	180	3-M12	60	3,320
KZMV160×3	210	33	16	7	190	3-M12	60	3,880
KZMV165 \times 3	210	33	16	7	190	3-M12	60	3,960
KZMV170×3	220	33	16	7	200	3-M12	60	4,010
KZMV180×3	230	35	18	8	205	3-M12	60	4,400
KZMV190×3	240	35	18	8	215	3-M12	60	4,770
KZMV200×3	250	37	18	8	225	3-M12	60	5,200



Features

Usage

Specifications

Follow the steps to clamp the KAN Nut Preload and tension can be adjusted.

Most endurable to vibration. Accuracy can be adjusted. Powerful fitting.

General, precise Bearing, Ball Screw Support Bearing

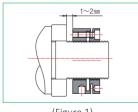
- Material : S45C - Tightening screw: SCM435

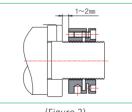
- Hardness : HRC 22 - 28 - Surface treatment : Black phosphated coating

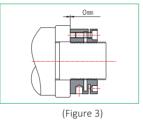
- Thread Accuracy : ISO4H - Perpendicularity: 0.002 ~ 0.007

- 1. Clean up the screw of the shaft
- 2. Loosen up each bolt.
- 3. Put the KAN nut into the screw and tighten it to the space of 1~2mm against the other section [see the figure 1]
- 4. Tighten the bolt in the sequence of diagonal uniformly to get rid of any slit between shaft and nut. [see the figure 2]
- 5. Assemble provisionally at the axial force of 3~5 times the actually required axial force. This processing is very important for initial adoption of the nut.
- 6. Tighten the bolts in the sequence of diagonal uniformly with them loosen and then get rid of the space until the nut can be turned.
- 7. Tighten the nut with required axial force.
- 8. Tighten all the bolts with the standard torque in the sequence of diagonal uniformly and then fix them on the shaft. [see the figure 3]
- 9. The shaft cannot be vibrated by adjusting the bolts if necessary. Don't make the bolt too loosened for dimensioning the shaft. Ensure that all the bolts must have a tension when closing the work.

Note : the centrifugal force on the moving shaft results in the KAN nut being loosened.







(Figure 1)

(Figure 2)

KAN 30 1.5 Product NO Pitch





Product NO.			Dimensi				Holes	Holes Tightening screw				
	D	d1	d2	d3	Н	C					Mass	
d X pitch	mm	mm	mm	mm	mm	mm	Qty	m	n	N·m	g	
KAN16×1.5	34	4	24.5	4.5	18	5	4	$M4 \times 12$	4	3	80	
KAN18×1.5	36	4	26.5	4.5	18	5	4	$M4 \times 12$	4	3	87	
KAN20×1.5	40	4	30.5	4.5	18	5	4	$M4 \times 12$	4	3	107	
KAN22×1.5	40	4	30.5	4.5	18	5	4	$M4 \times 12$	4	3	100	
KAN24×1.5	42	4	32.5	4.5	18	5	4	$M4 \times 12$	4	3	107	
KAN25×1.5	45	5	36.5	4.5	20	6.5	4	$M4 \times 12$	4	3	137	
KAN28×1.5	46	5	38.5	4.5	20	6.5	4	$M4 \times 12$	4	3	136	
KAN30×1.5	48	5	40.5	4.5	20	6.5	4	$M4 \times 12$	4	3	141	
KAN32×1.5	50	5	42.5	4.5	22	7	4	$M4 \times 16$	4	3	163	
KAN35×1.5	53	5	45.5	4.5	22	7	4	$M4 \times 16$	4	3	175	
KAN38×1.5	58	5	48.5	4.5	22	7	4	$M4 \times 16$	4	3	212	
KAN40×1.5	58	5	50.5	4.5	22	7	4	$M4 \times 16$	4	3	195	
KAN42×1.5	60	5	52.5	4.5	22	7	4	$M4 \times 16$	4	3	204	
KAN45×1.5	68	6	58	4.5	22	6.5	6	$M4 \times 16$	6	3	288	
KAN48×1.5	68	6	59.5	4.5	25	9	6	$M4 \times 18$	6	3	294	
KAN50×1.5	70	6	61.5	4.5	25	9	6	$M4 \times 18$	6	3	303	
KAN52×1.5	72	6	63.5	4.5	25	9	6	$M4 \times 18$	6	3	314	
KAN55×1.5	75	6	66.5	4.5	25	9	6	$M4 \times 18$	6	3	327	
KAN58×1.5	82	6	72.5	5.5	26	9	6	$M5 \times 18$	6	6	446	
KAN60×1.5	84	6	74.5	5.5	26	9	6	$M5 \times 18$	6	6	479	
KAN62×1.5	86	6	76.5	5.5	28	10.5	6	$M5 \times 20$	6	6	505	
KAN65×1.5	88	6	78.5	5.5	28	10.5	6	$M5 \times 20$	6	6	500	
KAN68×1.5	95	8	83	5.5	28	9.5	6	$M5 \times 20$	6	6	625	
KAN70×1.5	95	8	85	5.5	28	9.5	6	$M5 \times 20$	6	6	536	
KAN72×1.5	98	8	86	6.5	28	8.5	6	$M6 \times 20$	6	10	626	
KAN75×1.5	100	8	88	6.5	28	8.5	6	$M6 \times 20$	6	10	623	
KAN80×2.0	110	8	95	6.5	32	11	6	$M6 \times 22$	6	10	890	
KAN85×2.0	115	8	100	6.5	32	11	6	$M6 \times 22$	6	10	963	
KAN90×2.0	120	8	108	6.5	32	11	6	$M6 \times 22$	6	10	1,020	
KAN95×2.0	125	8	113	6.5	32	11	6	$M6 \times 22$	6	10	1,050	
KAN100×2.0	130	8	118	6.5	32	11	6	$M6 \times 22$	6	10	1,100	
KAN105×2.0	135	8	123	6.5	32	11	6	$M6 \times 22$	6	10	1,150	
KAN110×2.0	140	8	128	6.5	32	11	6	$M6 \times 22$	6	10	1,210	
KAN115×2.0	145	8	133	6.5	36	12	6	$M6 \times 25$	6	10	1,430	
KAN120×2.0	155	8	140	6.5	36	12	6	$M6 \times 25$	6	10	1,740	
KAN125×2.0	160	8	148	6.5	36	12	6	$M6 \times 25$	6	10	1,820	
KAN130×3.0	165	8	153	6.5	36	12	6	M6 × 25	6	10	1,940	
KAN140×3.0	180	10	160	10	38	10	8	M6 × 25	8	10	2,335	
KAN150×3.0	190	10	170	10	38	10	8	M6 × 25	8	10	2,480	
							_		_	-		

40

40

3,380

3,580

4,110

4,330

4,410

25

25

25

 $M8 \times 30$

 $M8 \times 30$

 $M8 \times 30$

 $M8 \times 30$

 $M8 \times 30$

205

215

230

240

245

10

10

10

178

193

210

224

229

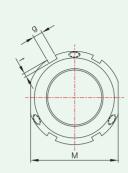
KAN160×3.0

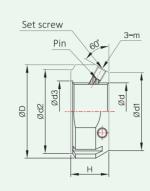
KAN170×3.0

KAN180×3.0

KAN190×3.0

KAN200×3.0







Usage

- Main Axis of a machine tool, Ball Screw Support Bearing, Precise spindle, Precise test machine

Specifications - Hardness : HRC 22 - 28

Features

- Material : S45C

- Surface treatment: Black phosphated coating

- Thread Accuracy : ISO4H

- Perpendicularity: 0.002 ~ 0.007

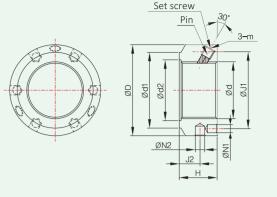
Order Method
(Order Example

KSN6	30	1.5
Product NO	d	Pitch

Please use a Homepage is the latest Data and CAD

KSN1		- Fei peridiculai											
No.						Dimens	ion(mm)				Set S	crew	Mass
KSN0	Product NO.	d X pitch	D	d1	d2	d3	Н	g	t	M	0010		111000
KSN1			mm	mm	mm	mm	mm	mm	mm	mm	m	N⋅m	g
NSN2	KSN0	M10×0.75	28	21	23	11	14	4	2	24	M5	4.5	45
KSN3	KSN1	M12×1	30	23	25	13	14	4	2	27	M5	4.5	50
KSN4	KSN2	M15×1	33	26	28	16	16	4	2	30	M5	4.5	75
KSN5	KSN3	M17×1	37	29	32	18	18	5	2	34	M6	8	100
KSN6	KSN4	M20×1	40	32	35	21	18	5	2	36	M6	8	110
KSN7 M35×1.5 54 46 49 38 22 5 2 50 M6 8 190 KSN8 M40×1.5 65 56 59 42 22 6 2.5 60 M8 18 300 KSN10 M45×1.5 70 61 64 48 22 6 2.5 65 M8 18 30 KSN10 M50×1.5 75 65 68 52 25 7 3 70 M8 18 400 KSN11 M55×2 85 74 78 58 25 7 3 80 M8 18 540 KSN12 M60×2 90 78 82 62 26 8 3.5 85 M8 18 610 KSN14 M70×2 100 88 92 72 28 8 3.5 95 M8 18 750 KSN15 <th< th=""><td>KSN5</td><td>M25×1.5</td><td>44</td><td>36</td><td>39</td><td>26</td><td>20</td><td>5</td><td>2</td><td>41</td><td>M6</td><td>8</td><td>130</td></th<>	KSN5	M25×1.5	44	36	39	26	20	5	2	41	M6	8	130
KSN8 M40×1.5 65 56 59 42 22 6 2.5 60 M8 18 300	KSN6	M30×1.5	49	41	44	32	20	5	2	46	M6	8	160
KSN9 M45×1.5 70 61 64 48 22 6 2.5 65 M8 18 330 KSN10 M50×1.5 75 65 68 52 25 7 3 70 M8 18 400 KSN11 M55×2 85 74 78 58 25 7 3 80 M8 18 540 KSN12 M60×2 90 78 82 62 26 8 3.5 85 M8 18 610 KSN13 M65×2 95 83 87 68 28 8 3.5 90 M8 18 710 KSN14 M70×2 100 88 92 72 28 8 3.5 100 M8 18 800 KSN15 M75×2 105 93 97 77 28 8 3.5 100 M8 18 800 KSN16	KSN7	M35×1.5	54	46	49	38	22	5	2	50	M6	8	190
KSN10 M50×1.5 75 65 68 52 25 7 3 70 M8 18 400 KSN11 M55×2 85 74 78 58 25 7 3 80 M8 18 540 KSN12 M60×2 90 78 82 62 26 8 3.5 85 M8 18 610 KSN13 M65×2 95 83 87 68 28 8 3.5 90 M8 18 710 KSN14 M70×2 100 88 92 77 28 8 3.5 90 M8 18 750 KSN16 M80×2 110 98 100 83 32 10 4 - M10 35 1,150 KSN17 M85×2 120 107 110 88 32 10 4 - M10 35 1,250 KSN18	KSN8	M40×1.5	65	56	59	42	22	6	2.5	60	M8	18	300
KSN11 M55×2 85 74 78 58 25 7 3 80 M8 18 540 KSN12 M60×2 90 78 82 62 26 8 3.5 85 M8 18 610 KSN13 M65×2 95 83 87 68 28 8 3.5 90 M8 18 710 KSN14 M70×2 100 88 92 72 28 8 3.5 95 M8 18 750 KSN15 M75×2 105 93 97 77 28 8 3.5 100 M8 18 800 KSN16 M80×2 110 98 100 83 32 10 4 - M10 35 1,150 KSN17 M85×2 120 107 110 88 32 10 4 - M10 35 1,250 KSN18	KSN9	M45×1.5	70	61	64	48	22	6	2.5	65	M8	18	330
KSN12 M60×2 90 78 82 62 26 8 3.5 85 M8 18 610 KSN13 M65×2 95 83 87 68 28 8 3.5 90 M8 18 710 KSN14 M70×2 100 88 92 72 28 8 3.5 95 M8 18 750 KSN15 M75×2 105 93 97 77 28 8 3.5 100 M8 18 800 KSN16 M80×2 110 98 100 83 32 8 3.5 100 M8 18 900 KSN17 M85×2 120 107 110 88 32 10 4 - M10 35 1,200 KSN18 M90×2 125 112 115 93 32 10 4 - M10 35 1,250 KSN20 </th <td>KSN10</td> <td>M50×1.5</td> <td>75</td> <td>65</td> <td>68</td> <td>52</td> <td>25</td> <td>7</td> <td>3</td> <td>70</td> <td>M8</td> <td>18</td> <td>400</td>	KSN10	M50×1.5	75	65	68	52	25	7	3	70	M8	18	400
KSN13 M65×2 95 83 87 68 28 8 3.5 90 M8 18 710 KSN14 M70×2 100 88 92 72 28 8 3.5 95 M8 18 750 KSN15 M75×2 105 93 97 77 28 8 3.5 100 M8 18 800 KSN16 M80×2 110 98 100 83 32 8 3.5 100 M8 18 900 KSN17 M85×2 120 107 110 88 32 10 4 - M10 35 1,150 KSN18 M90×2 125 112 115 93 32 10 4 - M10 35 1,250 KSN18 M90×2 135 122 125 103 32 10 4 - M10 35 1,250 KS	KSN11	M55×2	85	74	78	58	25	7	3	80	M8	18	540
KSN14 M70×2 100 88 92 72 28 8 3.5 95 M8 18 750 KSN15 M75×2 105 93 97 77 28 8 3.5 100 M8 18 800 KSN16 M80×2 110 98 100 83 32 8 3.5 100 M8 18 900 KSN17 M85×2 120 107 110 88 32 10 4 - M10 35 1,150 KSN18 M90×2 125 112 115 93 32 10 4 - M10 35 1,250 KSN19 M95×2 130 117 120 98 32 10 4 - M10 35 1,250 KSN20 M100×2 135 122 125 103 32 10 4 - M10 35 1,450 <	KSN12	M60×2	90	78	82	62	26	8	3.5	85	M8	18	610
KSN15 M75×2 105 93 97 77 28 8 3.5 100 M8 18 800 KSN16 M80×2 110 98 100 83 32 8 3.5 100 M8 18 900 KSN17 M85×2 120 107 110 88 32 10 4 - M10 35 1,150 KSN18 M90×2 125 112 115 93 32 10 4 - M10 35 1,200 KSN19 M95×2 130 117 120 98 32 10 4 - M10 35 1,250 KSN20 M100×2 135 122 125 103 32 10 4 - M10 35 1,300 KSN22 M110×2 145 132 134 112 32 10 4 - M10 35 1,450	KSN13	M65×2	95	83	87	68	28	8	3.5	90	M8	18	710
KSN16 M80×2 110 98 100 83 32 8 3.5 100 M8 18 900 KSN17 M85×2 120 107 110 88 32 10 4 - M10 35 1,150 KSN18 M90×2 125 112 115 93 32 10 4 - M10 35 1,200 KSN19 M95×2 130 117 120 98 32 10 4 - M10 35 1,250 KSN20 M100×2 135 122 125 103 32 10 4 - M10 35 1,300 KSN22 M110×2 145 132 134 112 32 10 4 - M10 35 1,450 KSN24 M120×2 155 142 144 122 32 10 4 - M10 35 1,600	KSN14	M70×2	100	88	92	72	28	8	3.5	95	M8	18	750
KSN17 M85×2 120 107 110 88 32 10 4 - M10 35 1,150 KSN18 M90×2 125 112 115 93 32 10 4 - M10 35 1,200 KSN19 M95×2 130 117 120 98 32 10 4 - M10 35 1,250 KSN20 M100×2 135 122 125 103 32 10 4 - M10 35 1,250 KSN22 M110×2 145 132 134 112 32 10 4 - M10 35 1,450 KSN24 M120×2 155 142 144 122 32 10 4 - M10 35 1,600 KSN26 M130×2 165 152 154 132 32 12 5 - M10 35 1,800 <	KSN15	M75×2	105	93	97	77	28	8	3.5	100	M8	18	800
KSN18 M90×2 125 112 115 93 32 10 4 - M10 35 1,200 KSN19 M95×2 130 117 120 98 32 10 4 - M10 35 1,250 KSN20 M100×2 135 122 125 103 32 10 4 - M10 35 1,300 KSN22 M110×2 145 132 134 112 32 10 4 - M10 35 1,450 KSN24 M120×2 155 142 144 122 32 10 4 - M10 35 1,600 KSN26 M130×2 165 152 154 132 32 12 5 - M10 35 1,700 KSN28 M140×2 175 162 160 142 32 14 6 - M10 35 1,950	KSN16	M80×2	110	98	100	83	32	8	3.5	100	M8	18	900
KSN19 M95×2 130 117 120 98 32 10 4 - M10 35 1,250 KSN20 M100×2 135 122 125 103 32 10 4 - M10 35 1,300 KSN22 M110×2 145 132 134 112 32 10 4 - M10 35 1,450 KSN24 M120×2 155 142 144 122 32 10 4 - M10 35 1,600 KSN26 M130×2 165 152 154 132 32 12 5 - M10 35 1,700 KSN28 M140×2 175 162 160 142 32 14 6 - M10 35 1,950 KSN30 M150×2 185 172 170 152 32 14 6 - M10 35 2,100	KSN17	M85×2	120	107	110	88	32	10	4	-	M10	35	1,150
KSN20 M100×2 135 122 125 103 32 10 4 - M10 35 1,300 KSN22 M110×2 145 132 134 112 32 10 4 - M10 35 1,450 KSN24 M120×2 155 142 144 122 32 10 4 - M10 35 1,600 KSN26 M130×2 165 152 154 132 32 12 5 - M10 35 1,700 KSN28 M140×2 175 162 160 142 32 14 6 - M10 35 1,800 KSN30 M150×2 185 172 170 152 32 14 6 - M10 35 1,950 KSN32 M160×3 195 182 180 162 32 14 6 - M10 35 2,100	KSN18	M90×2	125	112	115	93	32	10	4	-	M10	35	1,200
KSN22 M110×2 145 132 134 112 32 10 4 - M10 35 1,450 KSN24 M120×2 155 142 144 122 32 10 4 - M10 35 1,600 KSN26 M130×2 165 152 154 132 32 12 5 - M10 35 1,700 KSN28 M140×2 175 162 160 142 32 14 6 - M10 35 1,800 KSN30 M150×2 185 172 170 152 32 14 6 - M10 35 1,950 KSN32 M160×3 195 182 180 162 32 14 6 - M10 35 2,100 KSN34 M170×3 205 192 190 172 32 14 6 - M10 35 2,300	KSN19	M95×2	130	117	120	98	32	10	4	-	M10	35	1,250
KSN24 M120×2 155 142 144 122 32 10 4 - M10 35 1,600 KSN26 M130×2 165 152 154 132 32 12 5 - M10 35 1,700 KSN28 M140×2 175 162 160 142 32 14 6 - M10 35 1,800 KSN30 M150×2 185 172 170 152 32 14 6 - M10 35 1,950 KSN32 M160×3 195 182 180 162 32 14 6 - M10 35 2,100 KSN34 M170×3 205 192 190 172 32 14 6 - M10 35 2,200 KSN36 M180×3 215 200 200 182 32 16 7 - M10 35 2,400	KSN20	M100×2	135	122	125	103	32	10	4	-	M10	35	1,300
KSN26 M130×2 165 152 154 132 32 12 5 - M10 35 1,700 KSN28 M140×2 175 162 160 142 32 14 6 - M10 35 1,800 KSN30 M150×2 185 172 170 152 32 14 6 - M10 35 1,950 KSN32 M160×3 195 182 180 162 32 14 6 - M10 35 2,100 KSN34 M170×3 205 192 190 172 32 14 6 - M10 35 2,200 KSN36 M180×3 215 200 200 182 32 16 7 - M10 35 2,400 KSN38 M190×3 225 210 210 192 32 16 7 - M10 35 2,400	KSN22	M110×2	145	132	134	112	32	10	4	-	M10	35	1,450
KSN28 M140×2 175 162 160 142 32 14 6 - M10 35 1,800 KSN30 M150×2 185 172 170 152 32 14 6 - M10 35 1,950 KSN32 M160×3 195 182 180 162 32 14 6 - M10 35 2,100 KSN34 M170×3 205 192 190 172 32 14 6 - M10 35 2,200 KSN36 M180×3 215 200 200 182 32 16 7 - M10 35 2,300 KSN38 M190×3 225 210 210 192 32 16 7 - M10 35 2,400	KSN24	M120×2	155	142	144	122	32	10	4	-	M10	35	1,600
KSN30 M150×2 185 172 170 152 32 14 6 - M10 35 1,950 KSN32 M160×3 195 182 180 162 32 14 6 - M10 35 2,100 KSN34 M170×3 205 192 190 172 32 14 6 - M10 35 2,200 KSN36 M180×3 215 200 200 182 32 16 7 - M10 35 2,300 KSN38 M190×3 225 210 210 192 32 16 7 - M10 35 2,400	KSN26	M130×2	165	152	154	132	32	12	5	-	M10	35	1,700
KSN32 M160×3 195 182 180 162 32 14 6 - M10 35 2,100 KSN34 M170×3 205 192 190 172 32 14 6 - M10 35 2,200 KSN36 M180×3 215 200 200 182 32 16 7 - M10 35 2,300 KSN38 M190×3 225 210 210 192 32 16 7 - M10 35 2,400	KSN28	M140×2	175	162	160	142	32	14	6	-	M10	35	1,800
KSN34 M170×3 205 192 190 172 32 14 6 - M10 35 2,200 KSN36 M180×3 215 200 200 182 32 16 7 - M10 35 2,300 KSN38 M190×3 225 210 210 192 32 16 7 - M10 35 2,400	KSN30	M150×2	185	172	170	152	32	14	6	-	M10	35	1,950
KSN36 M180 × 3 215 200 200 182 32 16 7 - M10 35 2,300 KSN38 M190 × 3 225 210 210 192 32 16 7 - M10 35 2,400	KSN32	M160×3	195	182	180	162	32	14	6	-	M10	35	2,100
KSN38 M190×3 225 210 210 192 32 16 7 - M10 35 2,400	KSN34	M170×3	205	192	190	172	32	14	6	-	M10	35	2,200
	KSN36	M180×3	215	200	200	182	32	16	7	-	M10	35	2,300
Manual Control of the	KSN38	M190×3	225	210	210	192	32	16	7	-	M10	35	2,400
KSN40 M200×3 235 220 220 202 32 18 8 - M10 35 2,500	KSN40	M200×3	235	220	220	202	32	18	8	-	M10	35	2,500





Usage

- Main Axis of a machine tool, Ball Screw Support Bearing, Precise spindle, Precise test machine

Order Method (Order Example) KSNA6 30 1.5 Product NO Pitch

Specifications - Hardness : HRC 22 - 28

- Material : S45C

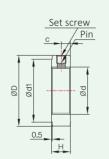
- Surface treatment: Black phosphated coating

- Thread Accuracy : ISO4H

- Perpendicularity : 0.002 ~ 0.007

					Dimens	ion(mm)				C - 1 C		
Product NO.	d X pitch	D	d1	d2	Н	J1	J2	N1	N2	Set S	crew	Mass
		mm	mm	mm	mm	mm	mm	mm	mm	m	N⋅m	g
KSNA4	M20×1.0	38	30	21	18	29	10	4.3	4	M6	8	100
KSNA5	M25×1.5	42	35	26	20	32.5	11	4.3	4	M6	8	120
KSNA6	M30×1.5	48	40	32	20	40.5	11	4.3	5	M6	8	150
KSNA7	M35×1.5	53	47	38	20	45.5	11	4.3	5	M6	8	180
KSNA8	M40×1.5	58	52	42	22	50.5	12	4.3	5	M6	8	210
KSNA9	M45×1.5	68	58	48	22	58	12	4.3	6	M6	8	300
KSNA10	M50×1.5	70	63	52	24	61.5	13	4.3	6	M6	8	310
KSNA11	M55×1.5	75	70	58	24	66.5	13	4.3	6	M6	8	350
KSNA12	M60×1.5	84	75	62	24	74.5	13	5.3	6	M8	18	450
KSNA13	M65×1.5	88	80	68	25	78.5	13	5.3	6	M8	18	480
KSNA14	M70×1.5	95	86	72	26	85	14	5.3	8	M8	18	570
KSNA15	M75×1.5	100	91	77	26	88	13	6.4	8	M8	18	610
KSNA16	M80×2	110	97	83	30	95	16	6.4	8	M8	18	910
KSNA17	M85×2	115	102	88	32	100	17	6.4	8	M10	35	1,050
KSNA18	M90×2	120	110	93	32	108	17	6.4	8	M10	35	1,100
KSNA19	M95×2	125	114	98	32	113	17	6.4	8	M10	35	1,150
KSNA20	M100×2	130	120	103	32	118	17	6.4	8	M10	35	1,200
KSNA22	M110×2	140	132	112	32	128	17	6.4	8	M10	35	1,350
KSNA24	M120×2	155	142	122	32	140	17	6.4	8	M10	35	1,700
KSNA26	M130×3	165	156	132	32	153	17	6.4	8	M10	35	1,900
KSNA28	M140×3	180	166	142	32	165	17	6.4	10	M10	35	2,250
KSNA30	M150×3	190	180	152	32	175	17	6.4	10	M10	35	2,450
KSNA32	M160×3	205	190	162	32	185	17	8.4	10	M10	35	2,900
KSNA34	M170×3	215	205	172	32	195	17	8.4	10	M10	35	3,150
KSNA36	M180×3	230	215	182	32	210	17	8.4	10	M10	35	3,650
KSNA38	M190×3	240	225	192	32	224	17	8.4	10	M10	35	3,850
KSNA40	M200×3	245	237	202	32	229	17	8.4	10	M10	35	3,700





- Material : S45C

Specifications - Hardness : HRC 22 - 28

- Surface treatment: Black phosphated coating

- Thread Accuracy : ISO4H

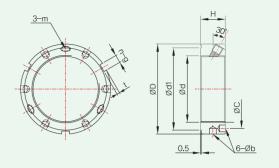
- Perpendicularity : 0.002 ~ 0.007

Order Method
(Order Example)

KZMT	30	1.5
Product NO	d	Pitch

Product NO.			Dimens	C-1 (Screw	N.4			
Product NO.	D	Н	g	t	d1	С	Set S	ocrew	Mass
d X pitch	mm	mm	mm	mm	mm	mm	m	N·m	g
KZMT10×1	18	8	3	2	13	4	M4	2	10
(ZMT12×1	22	8	3	2	16	4	M4	2	14
(ZMT15×1	25	8	3	2	20	4	M4	2	16
ZMT17×1	28	10	4	2	23	5	M5	4.5	2
$ZMT20 \times 1$	32	10	4	2	26	5	M5	4.5	3-
ZMT25×1.5	38	12	5	2	32	6	M6	8	5
$ZMT30 \times 1.5$	45	12	5	2	39	6	M6	8	7
$ZMT35 \times 1.5$	52	12	5	2	46	6	M6	8	10
$ZMT40 \times 1.5$	58	14	6	2.5	51	7	M6	8	14
ZMT45×1.5	65	14	6	2.5	58	7	M6	8	18
$ZMT50 \times 1.5$	70	14	6	2.5	63	7	M6	8	19
$ZMT55 \times 2$	75	16	7	3	67	8	M8	18	24
$ZMT60 \times 2$	80	16	7	3	72	8	M8	18	26
$ZMT65 \times 2$	85	16	7	3	77	8	M8	18	28
$ZMT70 \times 2$	92	18	8	3.5	83	9	M8	18	378
ZMT75×2	98	18	8	3.5	89	9	M8	18	42
$ZMT80 \times 2$	105	18	8	3.5	96	9	M8	18	49
$ZMT85 \times 2$	110	18	8	3.5	101	9	M8	18	52
$ZMT90 \times 2$	120	20	10	4	108	10	M8	18	75
$ZMT95 \times 2$	125	20	10	4	113	10	M8	18	78
ZMT100×2	130	20	10	4	118	10	M8	18	82
ZMT105×2	140	22	12	5	125	11	M8	18	1,10
ZMT110×2	145	22	12	5	132	11	M8	18	1,16
ZMT120×2	155	24	12	5	142	12	M8	18	1,37
ZMT130×2	165	24	12	5	152	12	M8	18	1,48
ZMT140×2	180	26	14	6	165	13	M10	35	1,95
ZMT150×2	195	26	14	6	180	13	M10	35	2,40
ZMT160×3	210	28	16	7	190	14	M10	35	3,08
$ZMT170 \times 3$	220	28	16	7	200	14	M10	35	3,25
$ZMT180 \times 3$	230	30	18	8	205	15	M12	60	3,628
$ZMT190 \times 3$	240	30	18	8	215	15	M12	60	3,92
$(ZMT200 \times 3)$	250	32	18	8	225	16	M12	60	4,330





- Material : S45C

Specifications - Hardness : HRC 22 - 28

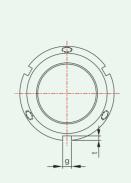
- Surface treatment: Black phosphated coating

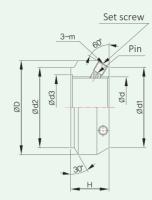
- Thread Accuracy : ISO4H

- Perpendicularity : 0.002 ~ 0.007

KZMF	30	1.5
Product NO	d	Pitch

					Dimension(r	mm)			C-+ 0		N.4
Product NO.	d X pitch	D	d1	Н	n-g	b	t	С	Set 3	Screw	Mass
		mm	mm	mm	mm	mm	mm	mm	m	N·m	g
KZMF20	M20×1	38	33	16	3-4	-	2	-	M6	4.5	110
KZMF25	M25×1.5	38	33	18	3-5	-	2	-	M6	8	120
KZMF30	M30×1.5	45	40	18	3-5	-	2	-	M6	8	140
KZMF35	M35×1.5	52	47	18	3-5	-	2	-	M8	18	170
KZMF40	M40×1.5	58	52	20	3-6	-	2.5	-	M8	18	210
KZMF45	M45×1.5	65	59	20	3-6	-	2.5	-	M8	18	300
KZMF50	M50×1.5	70	64	20	3-6	-	2.5	-	M8	18	310
KZMF55	M55×2	75	68	22	3-7	6	3	65	M8	18	350
KZMF60	M60×2	80	73	22	3-7	6	3	70	M8	18	430
KZMF65	M65×2	85	78	22	3-7	6	3	75	M8	18	450
KZMF70	M70×2	92	84	24	3-8	6	3.5	81	M8	18	550
KZMF75	M75×2	98	90	24	3-8	6	3.5	87	M8	18	590
KZMF80	M80×2	105	96	24	3-8	7	3.5	93	M8	18	810
KZMF85	M85×2	110	102	24	6-8	7	3.5	98	M8	18	900
KZMF90	M90×2	120	108	26	6-10	7	4	105	M8	18	1,100
KZMF95	M95×2	125	113	26	6-10	7	4	110	M8	18	1,150
KZMF100	M100×2	130	118	26	6-10	7	4	115	M8	18	1,200
KZMF110	M110×2	145	132	28	6-10	7	4	128	M10	35	1,350
KZMF120	M120×2	155	142	30	6-12	7	5	138	M10	35	1,600
KZMF130	M130×2	165	152	30	6-12	7	5	148	M10	35	1,850
KZMF140	M140×2	180	165	32	6-12	7	5	160	M10	35	2,450
KZMF150	M150×2	195	180	32	6-12	7	5	173	M10	35	2,800
KZMF160	M160×3	210	190	34	6-14	8	6	185	M10	35	3,400
KZMF170	M170×3	220	200	34	6-14	8	6	195	M10	35	3,500
KZMF180	M180×3	230	205	36	6-16	8	7	205	M12	60	3,650
KZMF190	M190×3	240	215	36	6-16	8	7	215	M12	60	3,900
KZMF200	M200×3	250	225	38	6-16	8	7	225	M12	60	4,400





- Material : S45C Specifications - Hardness : HRC 22 - 28

- Surface treatment: Black phosphated coating

- Thread Accuracy : ISO4H

- Perpendicularity : 0.002 ~ 0.007

Order Method	
(Order Example	

KSNT6	30	1.5
Product NO	d	Pitch

		Dimension(mm)						Set Screw		Mass	
Product NO.	d X pitch	D	d1	d2	d3	Н	g	t	Jet.	Sciew	141033
		mm	mm	mm	mm	mm	mm	mm	mm	N⋅m	g
KSNT2	M15×1	33	26	25	16	16	4	2.5	M5	4.5	85
KSNT3	M17×1	37	29	30	18	18	5	2.5	M6	8	110
KSNT4	M20×1	40	32	32	21	18	5	2.5	M6	8	12
KSNT5	M25×1.5	44	36	36	26	20	5	2.5	M6	8	14
KSNT6	M30×1.5	49	41	41	32	20	5	2.5	M6	8	18
KSNT7	M35×1.5	54	46	46	38	22	5	2.5	M6	8	21
KSNT8	M40×1.5	65	56	56	42	22	6	3	M8	18	33
KSNT9	M45×1.5	70	61	61	48	22	6	3	M8	18	37
KSNT10	M50×1.5	75	65	65	52	25	7	3	M8	18	45
KSNT11	M55×2	85	74	75	58	25	7	3	M8	18	59
KSNT12	M60×2	90	78	79	62	26	8	4	M8	18	67
KSNT13	M65×2	95	83	84	68	28	8	4	M8	18	78
KSNT14	M70×2	100	88	89	72	28	8	4	M8	18	83
KSNT15	M75×2	105	93	94	77	28	8	4	M8	18	88
KSNT16	M80×2	110	98	96	83	32	8	4	M8	18	99
KSNT17	M85×2	120	107	106	88	32	10	4	M10	35	1,27
KSNT18	M90×2	125	112	111	93	32	10	4	M10	35	1,32
KSNT19	M95×2	130	117	116	98	32	10	4	M10	35	1,38
KSNT20	M100×2	135	122	121	103	32	10	4	M10	35	1,43
KSNT22	M110×2	145	132	130	112	32	10	4	M10	35	1,60
KSNT24	M120×2	155	142	140	122	32	10	4	M10	35	1,76
KSNT26	M130×2	165	152	150	132	32	12	5	M10	35	1,87
KSNT28	M140×2	175	162	160	142	32	14	6	M10	35	1,98
KSNT30	M150×2	185	172	170	152	32	14	6	M10	35	2,15
KSNT32	M160×2	195	182	180	162	32	14	6	M10	35	2,35
(SNT34	M170×2	205	192	190	172	32	14	6	M10	35	2,55
(SNT36	M180×2	215	200	200	182	32	16	7	M10	35	2,64
KSNT38	M190×2	225	210	210	192	32	16	7	M10	35	2,75
KSNT40	M200×2	235	220	220	202	32	18	8	M10	35	2,85



Features

- Set screw can be fitted at the shaft direction.

Order Method (Order Example) ZMVT6 30 1.5 Product NO Pitch

Specifications - Hardness : HRC 22 - 28

- Material : S45C

- Surface treatment: Black phosphated coating

- Thread Accuracy : ISO4H

- Perpendicularity : 0.002 ~ 0.007

	d X pitch		Dimension(mm)									Screw	Mass
Product NO.		D	d1	d2	d3	Н	J1	J2	N1	N2	Set.	screw	IVIdSS
		mm	mm	mm	mm	mm	mm	mm	mm	mm	m	N·m	g
ZMVT5	M25×1.5	42	33.5	35	26	20	32.5	11	4.3	5	M6	8	120
ZMVT6	M30×1.5	48	39	40	32	20	40.5	11	4.3	5	M6	8	150
ZMVT7	M35×1.5	53	44	47	38	20	45.5	11	4.3	5	M6	8	180
ZMVT8	M40×1.5	58	49	52	42	22	50.5	12	4.3	5	M6	8	210
ZMVT9	M45×1.5	68	56.5	58	48	22	58	12	4.3	5	M6	8	300
ZMVT10	M50×1.5	70	60	63	52	24	61.5	12	4.3	5	M6	8	310
ZMVT11	M55×1.5	75	65	70	58	24	66.5	13	4.3	5	M6	8	35
ZMVT12	M60×1.5	84	72	75	62	24	74.5	13	5.3	5	M6	8	45
ZMVT13	M65×1.5	88	76	80	68	25	78.5	13	5.3	5	M6	8	48
ZMVT14	M70×1.5	95	83	86	72	26	85	14	5.3	7.9	M10	35	57
ZMVT15	M75×1.5	100	88	91	77	26	88	13	6.4	7.9	M10	35	61
ZMVT16	M80×2	110	96	97	83	30	95	16	6.4	7.9	M10	35	91
ZMVT17	M85×2	115	100	102	88	32	100	17	6.4	9.6	M12	60	1,05
ZMVT18	M90×2	120	105	110	93	32	108	17	6.4	9.6	M12	60	1,10
ZMVT19	M95×2	125	110	114	98	32	113	17	6.4	9.6	M12	60	1,15
ZMVT20	M100×2	130	115	120	103	32	118	17	6.4	9.6	M12	60	1,20
ZMVT22	M110×2	140	128	132	112	32	125	17	6.4	9.6	M12	60	1,35
ZMVT24	M120×2	155	138	142	122	32	140	17	6.4	9.6	M12	60	1,70
ZMVT26	M130×3	165	148	156	132	32	153	17	6.4	9.6	M12	60	1,90
ZMVT28	M140×3	180	160	166	142	32	165	17	6.4	9.6	M12	60	2,25
ZMVT30	M150×3	195	173	180	152	32	175	17	6.4	9.6	M12	60	2,45
ZMVT32	M160×3	205	182	190	162	32	185	17	8.4	9.6	M12	60	2,90
ZMVT34	M170×3	215	192	205	172	32	195	17	8.4	9.6	M12	60	3,15
ZMVT36	M180×3	230	205	215	182	32	210	17	8.4	9.6	M12	60	3,65
ZMVT38	M190×3	240	215	225	192	32	224	17	8.4	9.6	M12	60	3,85
ZMVT40	M200×3	245	223	237	202	32	229	17	8.4	9.6	M12	60	3,70



Prevailing Torque of DCN is higher than existing Locknut Install and Removal of Locknut body is easier than existing Locknut. Especially, DCN has excellent self- locking feature under vibration and high-speed rotation.

DCN can get a relatively large thrust load.

It is easy to adjust the run-out.

The choice is wide due to the two kinds of thickness.

Specifications

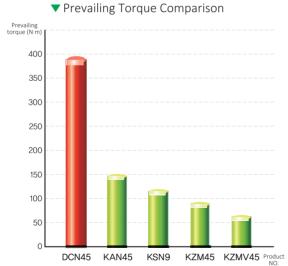
- Material : S45C
- Hardness : HRC 22-28
- Thread Accuracy: ISO 4H
- Set screw Material : SCM435
- Surface treatment : Black phosphated coating
- Perpendicularity: 0.002mm~0.007mm

Usage

Comparison

▼ DCN45X1.5 Prevailing Torque Comparison						
Tightening torque(N·m)	Set screw	Prevailing torque (N·m)				
8	3-M6	384				
3	6-M4	153				
8	3-M6	123				
8	3-M6	83				
8	3-M6	65				
	Tightening torque(N·m) 8 3 8	Tightening torque(N⋅m) Set screw 8 3-M6 3 6-M4 8 3-M6 8 3-M6				

 $[\]ensuremath{\mathbb{X}}$ KAN is tightened with hexagon wrench bolt. Measuring instrument



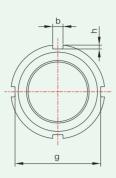
DCN(L)	30	1.5
Product NO	d	Pitch

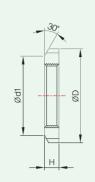


Product NO.				on(mm)			Set S	crew	Ma	
	D	H1	H2	g	t	d1			DCN	DCNL
d X pitch	mm	mm	mm	mm	mm	mm	n-m	N⋅m	g	g
DCN(<u>L</u>)20×1	32	10	18	4	2	26	3-M5	4.5	34	110
DCN(<u>L</u>)25×1.5	38	12	20	5	2	32	3-M5	4.5	58	130
DCN(L)30×1.5	45	12	20	5	2	39	3-M5	4.5	78	160
DCN(<u>L</u>)35×1.5	52	12	22	5	2	46	3-M6	8	104	190
DCN(L)40×1.5	58	14	22	6	2.5	51	3-M6	8	148	300
DCN(<u>L</u>)45×1.5	65	14	22	6	2.5	58	3-M6	8	184	330
DCN(L)50×1.5	70	14	25	6	2.5	63	3-M6	8	200	400
DCN(<u>L</u>)55×2	75	16	25	7	3	67	3-M6	8	246	540
DCN(L)60×2	80	16	26	7	3	72	3-M6	8	270	610
DCN(<u>L</u>)65×2	85	16	28	7	3	77	3-M6	8	290	710
DCN(L)70×2	92	18	28	8	3.5	83	3-M8	18	398	750
DCN(<u>L</u>)75×2	98	18	28	8	3.5	89	3-M8	18	434	800
DCN(L)80×2	105	18	32	8	3.5	96	3-M8	18	504	900
DCN(<u>L</u>)85×2	110	18	32	8	3.5	101	3-M8	18	532	1,150
DCN(<u>L</u>)90×2	120	20	32	10	4	108	3-M8	18	762	1,200
DCN(<u>L</u>)95×2	125	20	32	10	4	113	3-M8	18	796	1,250
DCN(L)100×2	130	20	32	10	4	118	3-M8	18	836	1,300
DCN(<u>L</u>)105×2	140	22	32	12	5	125	3-M10	35	1,130	1,375
DCN(<u>L</u>)110×2	145	22	32	12	5	132	3-M10	35	1,172	1,450
DCN(<u>L</u>)115×2	150	22	32	12	5	137	3-M10	35	1,270	1,525
DCN(<u>L</u>)120×2	155	24	32	12	5	142	3-M10	35	1,390	1,600
DCN(<u>L</u>)125×2	160	24	32	12	5	147	3-M10	35	1,450	1,650
DCN(L)130×2	165	24	32	12	5	152	3-M10	35	1,500	1,700
DCN(<u>L</u>)135×2	175	26	32	14	6	160	3-M12	60	1,930	1,750
DCN(<u>L</u>)140×2	180	26	32	14	6	165	3-M12	60	1,950	1,800
DCN(<u>L</u>)145×2	190	26	32	14	6	175	3-M12	60	2,380	1,875
DCN(<u>L</u>)150×2	195	26	32	14	6	180	3-M12	60	2,440	1,950
DCN(<u>L</u>)155×3	200	28	32	16	7	180	3-M12	60	2,760	2,025
$DCN(L)160 \times 3$	210	28	32	16	7	190	3-M12	60	3,160	2,100
$DCN(L)165 \times 3$	210	28	32	16	7	190	3-M12	60	3,300	2,150
$DCN(L)170\times3$	220	28	32	16	7	200	3-M12	60	3,315	2,200
$DCN(L)180 \times 3$	230	30	32	18	8	205	3-M12	60	3,690	2,300
DCN(<u>L</u>)190×3	240	30	32	18	8	215	3-M12	60	3,880	2,400
$DCN(L)200 \times 3$	250	32	32	18	8	225	3-M12	60	4,370	2,500

 $[\]boldsymbol{*}$ From DCN 105×2, it will be produced after order. So please ask to our company about delivery time.







Specifications - Hardness : HRC 22 - 28

- Material : S45C

- Surface treatment: Black phosphated coating

- Thread Accuracy : ISO4H

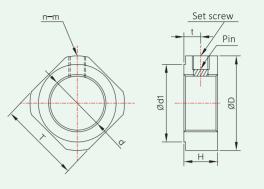
- Perpendicularity : 0.002 ~ 0.007

Order Method (Order Example)

AN6	30	1.5
Product NO	d	Pitch

	d X pitch								
Product NO.		D	d1	g	b	h	Н	Adapter sleeve	wash
		mm	mm	mm	mm	mm	mm		
ANO2	M15×1	25	21	21	4	2	5	-	AW02
AN03	M17×1	28	24	24	4	2	5	-	AW0
ANO4	M20×1	32	26	28	4	2	6	04	AW0
AN05	M25×1.5	38	32	34	5	2	7	05	AW0
AN06	M30×1.5	45	38	41	5	2	7	06	AW0
AN07	M35×1.5	52	44	48	5	2	8	07	AW0
AN08	M40×1.5	58	50	53	6	2.5	9	08	AW0
AN09	M45×1.5	65	56	60	6	2.5	10	09	AW0
AN10	M50×1.5	70	61	65	6	2.5	11	10	AW1
AN11	M55×2	75	67	69	7	3	11	11	AW1
AN12	M60×2	80	73	74	7	3	11	12	AW1
AN13	M65×2	85	79	79	7	3	12	13	AW1
AN14	M70×2	92	85	85	8	3.5	12	14	AW1
AN15	M75×2	98	90	91	8	3.5	13	15	AW1
AN16	M80×2	105	95	98	8	3.5	15	16	AW1
AN17	M85×2	110	102	103	8	3.5	16	17	AW1
AN18	M90×2	120	108	112	10	4	16	18	AW1
AN19	M95×2	125	113	117	10	4	17	19	AW1
AN20	M100×2	130	120	122	10	4	18	20	AW2
AN21	M105×2	140	126	130	12	5	18	21	AW2
AN22	M110×2	145	133	135	12	5	19	22	AW2
AN23	M115×2	150	137	140	12	5	19	-	AW2
AN24	M120×2	155	138	145	12	5	20	24	AW2
AN25	M125×2	160	148	150	12	5	21	-	AW2
AN26	M130×2	165	149	155	12	5	21	26	AW2
AN27	M135×2	175	160	163	14	6	22	-	AW2
AN28	M140×2	180	160	168	14	6	22	28	AW2
AN29	M145×2	190	172	178	14	6	24	-	AW2
AN30	M150×2	195	171	183	14	6	24	30	AW3
AN31	M155×3	200	182	186	16	7	25	-	-
AN32	M160×3	210	182	196	16	7	25	32	AW3
AN33	M165×3	210	193	196	16	7	26	-	-
AN34	M170×3	220	193	206	16	7	26	34	AW3
AN36	M180×3	230	203	214	18	8	27	36	AW3
AN38	M190×3	240	214	224	18	8	28	38	AW3
AN40	M200×3	250	226	234	18	8	29	40	AW4





Specifications

- Material : S45C

- Hardness : HRC 22 - 28

- Surface treatment: Black phosphated coating

- Thread Accuracy : ISO4H

- Perpendicularity : 0.002 ~ 0.007

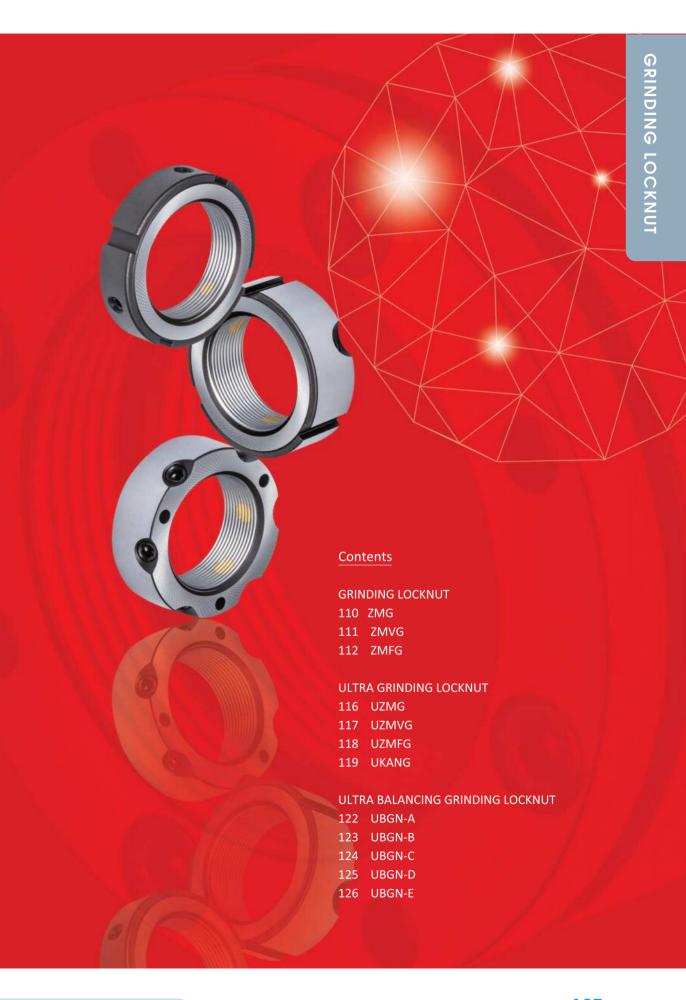
DN	30	1.5
Product NO	d	Pitch

	d X pitch			Dimension(mm)	Set screw				
Product NO.		D	d1	T	t	Н	Set s	crew	Mass
		mm	mm	mm	mm	mm	n-m	N-m	g
DN4	M4×0.5	11.5	8	10	2.8	5	M3	0.9	2
DN5	M5×0.5	13.5	9	11	2.8	5	M3	0.9	3
DN6	M6×0.75	14.5	10	12	3.1	5.5	M3	0.9	4
DN8	M8×1	16	13	14	3.9	7.0	M3	0.9	8
DN8	M8×0.75	16	13	14	3.9	7.0	M3	0.9	8
DN10	M10×1	20	16	17	4.5	8.0	M4	2	12
DN10	M10×0.75	20	16	17	4.5	8.0	M4	2	12
DN10-S	M10×1	20	16	17	4.5	8.0	2-M4	2	12
DN12	M12×1	22	18	19	4.5	8.0	M4	2	14
DN12-S	M12×1	22	18	19	4.5	8.0	2-M4	2	14
DN15	M15×1	25	21	22	4.5	8.0	2-M4	2	16
DN17	M17×1	28	23	24	5.4	10	2-M5	4.5	24
DN17-S	M17×1	30	25	24	9	13	2-M5	4.5	34
DN20	M20×1	32	27	28	5.4	10	2-M5	4.5	32
DN20-S	M20×1	35	26	29.3	7	11	2-M5	4.5	42
DN25	M25×1.5	38	33	34	6.5	12	2-M6	8	52
DN30	M30×1.5	45	40	41	6.5	12	2-M6	8	74
DN35	M35×1.5	52	47	48	6.5	12	2-M6	8	100
DN40	M40×1.5	58	52	53	8	14	2-M6	8	134

GRINDING LOCKNUT

Grinding Locknut Series of DURI are divided into Grinding Locknut, Ultra Grinding Locknut and Ultra Balancing Grinding Locknut depending on the surface to be polished and their shape and function.

DURI's Grinding Locknut Series is more strictly controlled and has a high Thread Accuracy, such as perpendicularity, planarity, and concentricity, compared to Turning Locknuts. Because of this, the Grinding Locknut Series can maintain stable operation without vibration due to high precision even during high-speed rotation. It is the best Locknut that can be used safely with high-speed precision spindle.

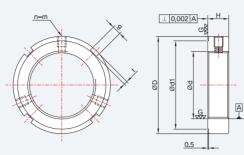


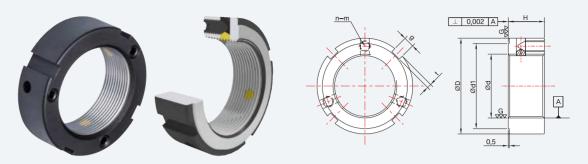


Precision grinding locknut type of standard shape. DURI Grinding Locknut is applied to the high-precision high-speed spindle or the high-rigidity high-speed-rotation ball screw support bearings.

Right after grinding all of thread area at the same time, connecting face contacting with the bearing are grinded with the same chucking state. So perpendicularity are being strictly followed with very high precision. And Grinding pattern of connecting face express that both the axis of rotation of products processing surface and the axis of the grinding wheel is exactly perpendicular and flatness is very excellent. DURI Grinding Locknuts are manufactured by finely grinding both threads and clamping face at the same time, thereby preventing the bur of the threads. Because it can maintain stable operation without vibration by a high precision even during high-speed-rotation, this is the best locknut for using high-speed high-precision spindle at ease. DURI grinding locknuts is a environment-friendly locknut satisfying the requirements of RoHS, JIG24 etc.







GRINDING LOCKNUT

Due to the thickness comparatively thinner than other types, this type is especially applicable when there are space restrictions

This type is a grinding locknut that its clamping face and thread are finely grinded at the same time and the perpendicularity is well managed.

Specifications

- Material : SCM440(42CrMo4) - Hardness : HRC 28~32 - Thread Accuracy : ISO 4H

- Perpendicularity: 0.002mm - Manufacturing Method : High Precision Grinding

Order Method (Order Example)

ZMG	30	1.5
Product NO	d	Pitch

Product NO.	D	Н	g	t	d1		MAX. N·m
d X pitch	mm	mm	mm	mm	mm	n-m	WAX. N·III
ZMG8×0.75	16	8	3	2	11	2-M4	2.0
ZMG10×0.75	18	8	3	2	13	2-M4	2.0
ZMG10×1	18	8	3	2	13	2-M4	2.0
ZMG12×1	22	8	3	2	16	2-M4	2.0
ZMG15×1	25	8	3	2	20	2-M4	2.0
ZMG17×1	28	10	4	2	23	2-M5	4.5
ZMG20×1	32	10	4	2	26	3-M5	4.5
ZMG25×1.5	38	12	5	2	32	3-M6	8.0
ZMG30×1.5	45	12	5	2	39	3-M6	8.0
ZMG35×1.5	52	12	5	2	46	3-M6	8.0
ZMG40×1.5	58	14	6	2.5	51	3-M6	8.0
ZMG45×1.5	65	14	6	2.5	58	3-M6	8.0
ZMG50×1.5	70	14	6	2.5	63	3-M6	8.0
ZMG55×2	75	16	7	3	67	3-M8	18.0
ZMG60×2	80	16	7	3	72	3-M8	18.0
ZMG65×2	85	16	7	3	77	3-M8	18.0
ZMG70×2	92	18	8	3.5	83	3-M8	18.0
ZMG75×2	98	18	8	3.5	89	3-M8	18.0
ZMG80×2	105	18	8	3.5	96	3-M8	18.0
ZMG85×2	110	18	8	3.5	101	3-M8	18.0
ZMG90×2	120	20	10	4	108	3-M8	18.0
ZMG95×2	125	20	10	4	113	3-M8	18.0
ZMG100×2	130	20	10	4	118	3-M8	18.0
ZMG105×2	140	22	12	5	125	3-M8	18.0
ZMG110×2	145	22	12	5	132	3-M8	18.0
ZMG115×2	150	22	12	5	137	3-M8	18.0
ZMG120×2	155	24	12	5	142	3-M8	18.0
ZMG125×2	160	24	12	5	147	3-M8	18.0
ZMG130×2	165	24	12	5	152	3-M8	18.0
ZMG135×2	175	26	14	6	160	3-M10	35.0
ZMG140×2	180	26	14	6	165	3-M10	35.0
ZMG145×2	190	26	14	6	175	3-M10	35.0
ZMG150×2	195	26	14	6	180	3-M10	35.0
ZMG155×3	200	28	16	7	180	3-M10	35.0
ZMG160×3	210	28	16	7	190	3-M10	35.0
ZMG165×3	210	28	16	7	190	3-M10	35.0
ZMG170×3	220	28	16	7	200	3-M10	35.0

Features

This type locks set screws from the axial direction. It is applicable when there are restrictions of side space. This type is a grinding locknut that its clamping face and thread are finely grinded at the same time and the perpendicularity is well managed.

Specifications

- Material : SCM440(42CrMo4) - Hardness : HRC 28~32 - Thread Accuracy : ISO 4H

- Perpendicularity: 0.002mm - Manufacturing Method : High Precision Grinding

ZMVG	30	1.5
Product NO	d	Pitch

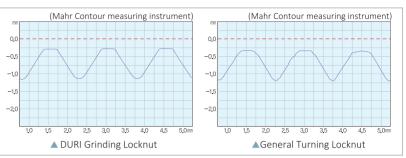
d X pitch mm	Product NO.	D	Н	g	t	d1		MAX. N·m
ZMVG20×1 32	d X pitch	mm	mm	mm	mm	mm	n-m	WAX. N·III
ZMVG25×1.5 38 17 5 2 32 3-M5 4.5 ZMVG30×1.5 45 17 5 2 39 3-M5 4.5 ZMVG30×1.5 52 17 5 2 34 3-M6 4.5 ZMVG40×1.5 58 19 6 2.5 51 3-M6 8.0 ZMVG50×1.5 70 19 6 2.5 58 3-M6 8.0 ZMVG50×1.5 70 19 6 2.5 63 3-M6 8.0 ZMVG60×2 80 21 7 3 67 3-M6 8.0 ZMVG60×2 85 21 7 3 77 3-M6 8.0 ZMVG765×2 92 23 8 3.5 83 3-M8 18.0 ZMVG80×2 105 23 8 3.5 89 3-M8 18.0 ZMVG90×2 105 23 8 3.5 96 3-M8	ZMVG17×1	28	15	4	2	23	2-M4	2.0
ZMVG30×1.5 45 17 5 2 39 3-M5 4.5 ZMVG30×1.5 52 17 5 2 46 3-M5 4.5 ZMVG40×1.5 58 19 6 2.5 51 3-M6 8.0 ZMVG50×1.5 70 19 6 2.5 63 3-M6 8.0 ZMVG50×2 75 21 7 3 67 3-M6 8.0 ZMVG60×2 80 21 7 3 72 3-M6 8.0 ZMVG60×2 85 21 7 3 72 3-M6 8.0 ZMVG70×2 92 23 8 3.5 83 3-M8 18.0 ZMVG80×2 105 23 8 3.5 89 3-M8 18.0 ZMVG80×2 105 23 8 3.5 96 3-M8 18.0 ZMVG90×2 105 23 8 3.5 96 3-M8	ZMVG20×1	32	15	4	2	26	3-M4	2.0
ZMVG35×1.5 52 17 5 2 46 3-M5 4.5 ZMVG40×1.5 58 19 6 2.5 51 3-M6 8.0 ZMVG50×1.5 65 19 6 2.5 58 3-M6 8.0 ZMVG50×1.5 70 19 6 2.5 63 3-M6 8.0 ZMVG60×2 75 21 7 3 67 3-M6 8.0 ZMVG60×2 80 21 7 3 77 3-M6 8.0 ZMVG70×2 92 23 8 3.5 83 3-M8 18.0 ZMVG70×2 98 23 8 3.5 89 3-M8 18.0 ZMVG80×2 105 23 8 3.5 96 3-M8 18.0 ZMVG98×2 110 23 8 3.5 101 3-M8 18.0 ZMVG90×2 120 25 10 4 113 3-M8 </th <th>ZMVG25×1.5</th> <th>38</th> <th>17</th> <th>5</th> <th>2</th> <th>32</th> <th>3-M5</th> <th>4.5</th>	ZMVG25×1.5	38	17	5	2	32	3-M5	4.5
ZMVG40×1.5 58 19 6 2.5 51 3-M6 8.0 ZMVG45×1.5 65 19 6 2.5 58 3-M6 8.0 ZMVG50×1.5 70 19 6 2.5 63 3-M6 8.0 ZMVG60×2 75 21 7 3 67 3-M6 8.0 ZMVG60×2 80 21 7 3 72 3-M6 8.0 ZMVG60×2 85 21 7 3 77 3-M6 8.0 ZMVG75×2 98 23 8 3.5 83 3-M8 18.0 ZMVG80×2 105 23 8 3.5 96 3-M8 18.0 ZMVG90×2 10 23 8 3.5 101 3-M8 18.0 ZMVG95×2 120 25 10 4 108 3-M8 18.0 ZMVG100×2 130 25 10 4 113 3-M8 <th>ZMVG30×1.5</th> <th>45</th> <th>17</th> <th>5</th> <th>2</th> <th>39</th> <th>3-M5</th> <th>4.5</th>	ZMVG30×1.5	45	17	5	2	39	3-M5	4.5
ZMVG45×1.5 65 19 6 2.5 58 3-M6 8.0 ZMVG50×1.5 70 19 6 2.5 63 3-M6 8.0 ZMVG65×2 75 21 7 3 67 3-M6 8.0 ZMVG65×2 80 21 7 3 72 3-M6 8.0 ZMVG70×2 92 23 8 3.5 83 3-M6 8.0 ZMVG70×2 92 23 8 3.5 89 3-M8 18.0 ZMVG95×2 98 23 8 3.5 89 3-M8 18.0 ZMVG95×2 105 23 8 3.5 101 3-M8 18.0 ZMVG95×2 110 23 8 3.5 101 3-M8 18.0 ZMVG90×2 120 25 10 4 108 3-M8 18.0 ZMVG100×2 130 25 10 4 118 3-M8	ZMVG35×1.5	52	17	5	2	46	3-M5	4.5
ZMVG50×1.5 70 19 6 2.5 63 3-M6 8.0 ZMVG65×2 75 21 7 3 67 3-M6 8.0 ZMVG60×2 80 21 7 3 72 3-M6 8.0 ZMVG65×2 85 21 7 3 77 3-M6 8.0 ZMVG70×2 92 23 8 3.5 83 3-M8 18.0 ZMVG75×2 98 23 8 3.5 89 3-M8 18.0 ZMVG80×2 105 23 8 3.5 96 3-M8 18.0 ZMVG90×2 110 23 8 3.5 101 3-M8 18.0 ZMVG90×2 120 25 10 4 108 3-M8 18.0 ZMVG100×2 130 25 10 4 113 3-M8 18.0 ZMVG100×2 130 25 10 4 118 3-M8 </th <th>ZMVG40×1.5</th> <th>58</th> <th>19</th> <th>6</th> <th>2.5</th> <th>51</th> <th>3-M6</th> <th>8.0</th>	ZMVG40×1.5	58	19	6	2.5	51	3-M6	8.0
ZMVG55×2 75 21 7 3 67 3-M6 8.0 ZMVG60×2 80 21 7 3 72 3-M6 8.0 ZMVG65×2 85 21 7 3 77 3-M6 8.0 ZMVG70×2 92 23 8 3.5 83 3-M8 18.0 ZMVG75×2 98 23 8 3.5 89 3-M8 18.0 ZMVG80×2 105 23 8 3.5 96 3-M8 18.0 ZMVG95×2 110 23 8 3.5 101 3-M8 18.0 ZMVG90×2 120 25 10 4 108 3-M8 18.0 ZMVG100×2 130 25 10 4 118 3-M8 18.0 ZMVG100×2 140 27 12 5 125 3-M10 35.0 ZMVG105×2 140 27 12 5 132 3-M1	ZMVG45×1.5	65	19	6	2.5	58	3-M6	8.0
ZMVG60 × 2 80 21 7 3 72 3-M6 8.0 ZMVG65 × 2 85 21 7 3 77 3-M6 8.0 ZMVG70 × 2 92 23 8 3.5 83 3-M8 18.0 ZMVG80 × 2 105 23 8 3.5 96 3-M8 18.0 ZMVG95 × 2 110 23 8 3.5 101 3-M8 18.0 ZMVG90 × 2 120 25 10 4 108 3-M8 18.0 ZMVG95 × 2 120 25 10 4 113 3-M8 18.0 ZMVG105 × 2 130 25 10 4 118 3-M8 18.0 ZMVG105 × 2 140 27 12 5 125 3-M10 35.0 ZMVG105 × 2 140 27 12 5 132 3-M10 35.0 ZMVG105 × 2 145 27 12 5	ZMVG50×1.5	70	19	6	2.5	63	3-M6	8.0
ZMVG65×2 85 21 7 3 77 3-M6 8.0 ZMVG70×2 92 23 8 3.5 83 3-M8 18.0 ZMVG80×2 105 23 8 3.5 89 3-M8 18.0 ZMVG80×2 105 23 8 3.5 96 3-M8 18.0 ZMVG90×2 110 23 8 3.5 101 3-M8 18.0 ZMVG90×2 120 25 10 4 108 3-M8 18.0 ZMVG100×2 130 25 10 4 113 3-M8 18.0 ZMVG105×2 140 27 12 5 125 3-M10 35.0 ZMVG105×2 140 27 12 5 125 3-M10 35.0 ZMVG105×2 140 27 12 5 132 3-M10 35.0 ZMVG105×2 150 27 12 5 132	ZMVG55×2	75	21	7	3	67	3-M6	8.0
ZMVG70×2 92 23 8 3.5 83 3-M8 18.0 ZMVG75×2 98 23 8 3.5 89 3-M8 18.0 ZMVG80×2 105 23 8 3.5 96 3-M8 18.0 ZMVG85×2 110 23 8 3.5 101 3-M8 18.0 ZMVG95×2 120 25 10 4 108 3-M8 18.0 ZMVG95×2 125 25 10 4 113 3-M8 18.0 ZMVG95×2 125 25 10 4 113 3-M8 18.0 ZMVG100×2 130 25 10 4 118 3-M8 18.0 ZMVG105×2 140 27 12 5 125 3-M10 35.0 ZMVG105×2 145 27 12 5 132 3-M10 35.0 ZMVG110×2 145 27 12 5 132 3-M10 35.0 ZMVG110×2 155 29 12 5 137 3-M10 35.0 ZMVG120×2 155 29 12 5 142 3-M10 35.0 ZMVG125×2 160 29 12 5 147 3-M10 35.0 ZMVG130×2 165 29 12 5 147 3-M10 35.0 ZMVG130×2 165 29 12 5 152 3-M10 35.0 ZMVG130×2 165 29 12 5 152 3-M10 35.0 ZMVG130×2 165 29 12 5 152 3-M10 35.0 ZMVG130×2 180 31 14 6 160 3-M12 60.0 ZMVG140×2 180 31 14 6 165 3-M12 60.0 ZMVG155×3 200 33 16 7 180 3-M12 60.0 ZMVG150×3 210 33 16 7 190 3-M12 60.0 ZMVG165×3 210 33 30 30 30 30 30	ZMVG60×2	80	21	7	3	72	3-M6	8.0
ZMVG75×2 98 23 8 3.5 89 3-M8 18.0 ZMVG80×2 105 23 8 3.5 96 3-M8 18.0 ZMVG95×2 110 23 8 3.5 101 3-M8 18.0 ZMVG90×2 120 25 10 4 108 3-M8 18.0 ZMVG95×2 125 25 10 4 113 3-M8 18.0 ZMVG100×2 130 25 10 4 118 3-M8 18.0 ZMVG105×2 140 27 12 5 125 3-M10 35.0 ZMVG110×2 145 27 12 5 132 3-M10 35.0 ZMVG115×2 150 27 12 5 137 3-M10 35.0 ZMVG125×2 160 29 12 5 142 3-M10 35.0 ZMVG135×2 165 29 12 5 147 <th>ZMVG65×2</th> <th>85</th> <th>21</th> <th>7</th> <th>3</th> <th>77</th> <th>3-M6</th> <th>8.0</th>	ZMVG65×2	85	21	7	3	77	3-M6	8.0
ZMVG80×2 105 23 8 3.5 96 3-M8 18.0 ZMVG95×2 110 23 8 3.5 101 3-M8 18.0 ZMVG90×2 120 25 10 4 108 3-M8 18.0 ZMVG100×2 130 25 10 4 113 3-M8 18.0 ZMVG105×2 140 27 12 5 125 3-M10 35.0 ZMVG105×2 140 27 12 5 125 3-M10 35.0 ZMVG110×2 145 27 12 5 132 3-M10 35.0 ZMVG115×2 150 27 12 5 132 3-M10 35.0 ZMVG120×2 155 29 12 5 142 3-M10 35.0 ZMVG130×2 165 29 12 5 147 3-M10 35.0 ZMVG135×2 175 31 14 6 1	ZMVG70×2	92	23	8	3.5	83	3-M8	18.0
ZMVG85×2	ZMVG75×2	98	23	8	3.5		3-M8	18.0
ZMVG90×2 120 25 10 4 108 3-M8 18.0 ZMVG95×2 125 25 10 4 113 3-M8 18.0 ZMVG100×2 130 25 10 4 118 3-M8 18.0 ZMVG105×2 140 27 12 5 125 3-M10 35.0 ZMVG110×2 145 27 12 5 132 3-M10 35.0 ZMVG115×2 150 27 12 5 137 3-M10 35.0 ZMVG125×2 150 27 12 5 142 3-M10 35.0 ZMVG125×2 155 29 12 5 147 3-M10 35.0 ZMVG130×2 165 29 12 5 152 3-M10 35.0 ZMVG135×2 175 31 14 6 160 3-M12 60.0 ZMVG140×2 180 31 14 6	ZMVG80×2	105	23	8	3.5	96	3-M8	18.0
ZMVG95×2 125 25 10 4 113 3-M8 18.0 ZMVG100×2 130 25 10 4 118 3-M8 18.0 ZMVG105×2 140 27 12 5 125 3-M10 35.0 ZMVG110×2 145 27 12 5 132 3-M10 35.0 ZMVG115×2 150 27 12 5 137 3-M10 35.0 ZMVG120×2 155 29 12 5 142 3-M10 35.0 ZMVG130×2 165 29 12 5 147 3-M10 35.0 ZMVG135×2 175 31 14 6 160 3-M12 60.0 ZMVG140×2 180 31 14 6 165 3-M12 60.0 ZMVG145×2 190 31 14 6 175 3-M12 60.0 ZMVG150×2 195 31 14 6 180 3-M12 60.0 ZMVG150×3 20 33 16 7<	ZMVG85×2	110	23	8	3.5	101	3-M8	18.0
ZMVG100×2 130 25 10 4 118 3-M8 18.0 ZMVG105×2 140 27 12 5 125 3-M10 35.0 ZMVG110×2 145 27 12 5 132 3-M10 35.0 ZMVG115×2 150 27 12 5 137 3-M10 35.0 ZMVG120×2 155 29 12 5 142 3-M10 35.0 ZMVG130×2 160 29 12 5 147 3-M10 35.0 ZMVG130×2 165 29 12 5 152 3-M10 35.0 ZMVG135×2 175 31 14 6 160 3-M12 60.0 ZMVG140×2 180 31 14 6 165 3-M12 60.0 ZMVG145×2 190 31 14 6 175 3-M12 60.0 ZMVG150×2 195 31 14 6	ZMVG90×2	120	25	10	4	108	3-M8	18.0
ZMVG105×2 140 27 12 5 125 3-M10 35.0 ZMVG110×2 145 27 12 5 132 3-M10 35.0 ZMVG115×2 150 27 12 5 137 3-M10 35.0 ZMVG120×2 155 29 12 5 142 3-M10 35.0 ZMVG125×2 160 29 12 5 147 3-M10 35.0 ZMVG130×2 165 29 12 5 152 3-M10 35.0 ZMVG135×2 175 31 14 6 160 3-M12 60.0 ZMVG140×2 180 31 14 6 165 3-M12 60.0 ZMVG145×2 190 31 14 6 175 3-M12 60.0 ZMVG150×2 195 31 14 6 180 3-M12 60.0 ZMVG155×3 200 33 16 7 180 3-M12 60.0 ZMVG165×3 210 33 16 <t< th=""><th>ZMVG95×2</th><th>125</th><th>25</th><th>10</th><th>4</th><th>113</th><th>3-M8</th><th>18.0</th></t<>	ZMVG95×2	125	25	10	4	113	3-M8	18.0
ZMVG110×2 145 27 12 5 132 3-M10 35.0 ZMVG115×2 150 27 12 5 137 3-M10 35.0 ZMVG120×2 155 29 12 5 142 3-M10 35.0 ZMVG125×2 160 29 12 5 147 3-M10 35.0 ZMVG130×2 165 29 12 5 152 3-M10 35.0 ZMVG135×2 175 31 14 6 160 3-M12 60.0 ZMVG140×2 180 31 14 6 165 3-M12 60.0 ZMVG145×2 190 31 14 6 175 3-M12 60.0 ZMVG150×2 195 31 14 6 180 3-M12 60.0 ZMVG155×3 200 33 16 7 180 3-M12 60.0 ZMVG165×3 210 33 16 7	ZMVG100×2	130	25	10	4	118	3-M8	18.0
ZMVG115×2 150 27 12 5 137 3-M10 35.0 ZMVG120×2 155 29 12 5 142 3-M10 35.0 ZMVG125×2 160 29 12 5 147 3-M10 35.0 ZMVG130×2 165 29 12 5 152 3-M10 35.0 ZMVG135×2 175 31 14 6 160 3-M12 60.0 ZMVG140×2 180 31 14 6 165 3-M12 60.0 ZMVG150×2 195 31 14 6 175 3-M12 60.0 ZMVG150×3 200 33 16 7 180 3-M12 60.0 ZMVG160×3 210 33 16 7 190 3-M12 60.0 ZMVG165×3 210 33 16 7 190 3-M12 60.0 ZMVG165×3 210 33 16 7 190 3-M12 60.0 ZMVG165×3 210 33 16 <t< th=""><th>ZMVG105×2</th><th>140</th><th>27</th><th>12</th><th>5</th><th>125</th><th>3-M10</th><th>35.0</th></t<>	ZMVG105×2	140	27	12	5	125	3-M10	35.0
ZMVG120×2 155 29 12 5 142 3-M10 35.0 ZMVG125×2 160 29 12 5 147 3-M10 35.0 ZMVG130×2 165 29 12 5 152 3-M10 35.0 ZMVG135×2 175 31 14 6 160 3-M12 60.0 ZMVG140×2 180 31 14 6 165 3-M12 60.0 ZMVG150×2 195 31 14 6 175 3-M12 60.0 ZMVG150×2 195 31 14 6 180 3-M12 60.0 ZMVG155×3 200 33 16 7 180 3-M12 60.0 ZMVG165×3 210 33 16 7 190 3-M12 60.0 ZMVG165×3 210 33 16 7 190 3-M12 60.0 ZMVG165×3 210 33 16 7	ZMVG110×2	145	27	12	5	132	3-M10	35.0
ZMVG125×2 160 29 12 5 147 3-M10 35.0 ZMVG130×2 165 29 12 5 152 3-M10 35.0 ZMVG135×2 175 31 14 6 160 3-M12 60.0 ZMVG140×2 180 31 14 6 165 3-M12 60.0 ZMVG145×2 190 31 14 6 175 3-M12 60.0 ZMVG150×2 195 31 14 6 180 3-M12 60.0 ZMVG155×3 200 33 16 7 180 3-M12 60.0 ZMVG160×3 210 33 16 7 190 3-M12 60.0 ZMVG165×3 210 33 16 7 190 3-M12 60.0 ZMVG165×3 210 33 16 7 190 3-M12 60.0	ZMVG115×2	150	27	12	5	137	3-M10	35.0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ZMVG120×2	155	29		5	142	3-M10	35.0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ZMVG125×2	160	29	12	5	147	3-M10	35.0
ZMVG140×2 180 31 14 6 165 3-M12 60.0 ZMVG145×2 190 31 14 6 175 3-M12 60.0 ZMVG150×2 195 31 14 6 180 3-M12 60.0 ZMVG155×3 200 33 16 7 180 3-M12 60.0 ZMVG160×3 210 33 16 7 190 3-M12 60.0 ZMVG165×3 210 33 16 7 190 3-M12 60.0	ZMVG130×2	165	29	12	5	152	3-M10	35.0
ZMVG145×2 190 31 14 6 175 3-M12 60.0 ZMVG150×2 195 31 14 6 180 3-M12 60.0 ZMVG155×3 200 33 16 7 180 3-M12 60.0 ZMVG160×3 210 33 16 7 190 3-M12 60.0 ZMVG165×3 210 33 16 7 190 3-M12 60.0	ZMVG135×2	175	31	14	6	160	3-M12	60.0
ZMVG150×2 195 31 14 6 180 3-M12 60.0 ZMVG155×3 200 33 16 7 180 3-M12 60.0 ZMVG160×3 210 33 16 7 190 3-M12 60.0 ZMVG165×3 210 33 16 7 190 3-M12 60.0	ZMVG140×2	180	31	14	6	165	3-M12	60.0
ZMVG155 \times 3 200 33 16 7 180 3-M12 60.0 ZMVG160 \times 3 210 33 16 7 190 3-M12 60.0 ZMVG165 \times 3 210 33 16 7 190 3-M12 60.0	ZMVG145×2	190	31	14	6	175	3-M12	60.0
ZMVG160×3 210 33 16 7 190 3-M12 60.0 ZMVG165×3 210 33 16 7 190 3-M12 60.0	ZMVG150×2	195	31	14	6	180	3-M12	60.0
ZMVG165 ×3 210 33 16 7 190 3-M12 60.0	ZMVG155×3	200	33	16	7	180	3-M12	60.0
	ZMVG160×3	210		16	7	190	3-M12	60.0
ZMVG170 \times 3 220 33 16 7 200 3-M12 60.0	ZMVG165×3	210		16	7	190	3-M12	60.0
	ZMVG170×3	220	33	16	7	200	3-M12	60.0

GRINDING LOCKNUT

GRINDING LOCKNUT Techincal data

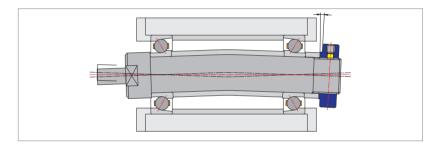
Comparison figure of thread cutting section between General Turning Locknut and DURI Grinding Locknut

DURI Grinding Locknuts are manufactured by finely grinding both threads and clamping face at the same time, thereby preventing the bur of the threads, its clamping face providing excellent surface roughness, perpendicularity and flatness. Therefore, it is suitable where high precision is required.



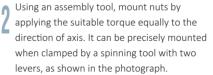
Shaft Vibration due to **Locknut Squareness**

The shaking of the shaft end occurs by the slope of the locknut clamping face. Bearing could be slanted by locknut. When the slant is 0.005mm, the load carrying capacity of the bearing decreases –10%, the radial stiffness -45% and its lifespan Product No. -30%, respectively.



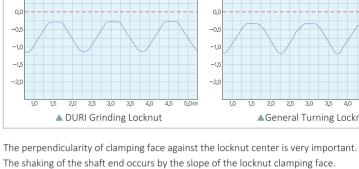
The most important factors where the accuracy is critical, such as bearing assembly of ball screws and spindles, are the fitness between each component and the perpendicularity of the nuts' clamping face. These factors directly affect the lifespan, reliability and quality of the bearings, ball screws or spindles. Our products are specially manufactured to meet customers'





↑ Tighten all set-screws with the torque less than specified on the catalogue, checking the runout tolerance by applying a gauge at the shaft end. Tighten the nut by the suitable torque again. The suitable torque can be calculated from the load conditions required by each application. For any technical

Please use the correct tool.



Order Method (Order Example)

Specifications

Features

ZMFG	30	1.5
Product NO	d	Pitch

- Hardness : HRC 28~32 - Thread Accuracy : ISO 4H

Please use a Homepage is the latest Data and CAD

This type locks set-screws from the diagonal direction. Placing set-screws 60° relative to the radial plane, this

concentric. This type is a grinding locknut that its clamping face and thread are finely grinded at the same time

type provides stable locking force by preventing loosening. By using the set-screws, it is easy for fitting the

- Perpendicularity: 0.002mm - Manufacturing Method : High Precision Grinding

and the perpendicularity is well managed.

- Material : SCM440(42CrMo4)

Product NO.	D	Н	d1	n-g	b	t	С	m	MAX. N·m
d X pitch	mm	mm	mm	mm	mm	mm	mm		WAA. N 'III
ZMFG20×1	38	16	33	3-4	-	2	-	M6	4.5
ZMFG25×1.5	38	18	33	3-5	-	2	-	M6	8.0
ZMFG30×1.5	45	18	40	3-5	-	2	-	M6	8.0
ZMFG35×1.5	52	18	47	3-5	-	2	-	M8	18.0
ZMFG40×1.5	58	20	52	3-6	-	2.5	-	M8	18.0
ZMFG45×1.5	65	20	59	3-6	-	2.5	-	M8	18.0
ZMFG50×1.5	70	20	64	3-6	-	2.5	-	M8	18.0
ZMFG55×2	75	22	68	3-7	6	3	65	M8	18.0
ZMFG60×2	80	22	73	3-7	6	3	70	M8	18.0
ZMFG65×2	85	22	78	3-7	6	3	75	M8	18.0
ZMFG70×2	92	24	84	3-8	6	3.5	81	M8	18.0
ZMFG75×2	98	24	90	3-8	6	3.5	87	M8	18.0
ZMFG80×2	105	24	96	3-8	7	3.5	93	M8	18.0
ZMFG85×2	110	24	102	6-8	7	3.5	98	M8	18.0
ZMFG90×2	120	26	108	6-10	7	4	105	M8	18.0
ZMFG95×2	125	26	113	6-10	7	4	110	M8	18.0
ZMFG100×2	130	26	118	6-10	7	4	115	M8	18.0
ZMFG105×2	140	28	125	6-10	7	4	123	M10	35.0
ZMFG110×2	145	28	132	6-10	7	4	128	M10	35.0
ZMFG115×2	150	28	137	6-10	7	4	133	M10	35.0
ZMFG120×2	155	30	142	6-12	7	5	138	M10	35.0
ZMFG125×2	160	30	147	6-12	7	5	143	M10	35.0
ZMFG130×2	165	30	152	6-12	7	5	148	M10	35.0
ZMFG135×2	175	32	160	6-12	7	5	155	M10	35.0
ZMFG140×2	180	32	165	6-12	7	5	160	M10	35.0
ZMFG145×2	190	32	175	6-12	7	5	168	M10	35.0
ZMFG150×2	195	32	180	6-12	7	5	173	M10	35.0
ZMFG155×3	200	34	180	6-14	8	6	178	M10	35.0
ZMFG160×3	210	34	190	6-14	8	6	185	M10	35.0
ZMFG165×3	210	34	190	6-14	8	6	188	M10	35.0
ZMFG170×3	220	34	200	6-14	8	6	195	M10	35.0

Notes on installation

Clean the nut and the male screw by an air blow gun. Confirm that the screw part does not have any damage. Apply a little lubricant to the nut and the male screw.

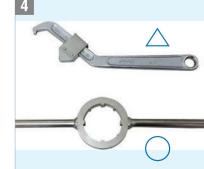
Why use DURI Grinding Locknut

assistance, please contact our service team.

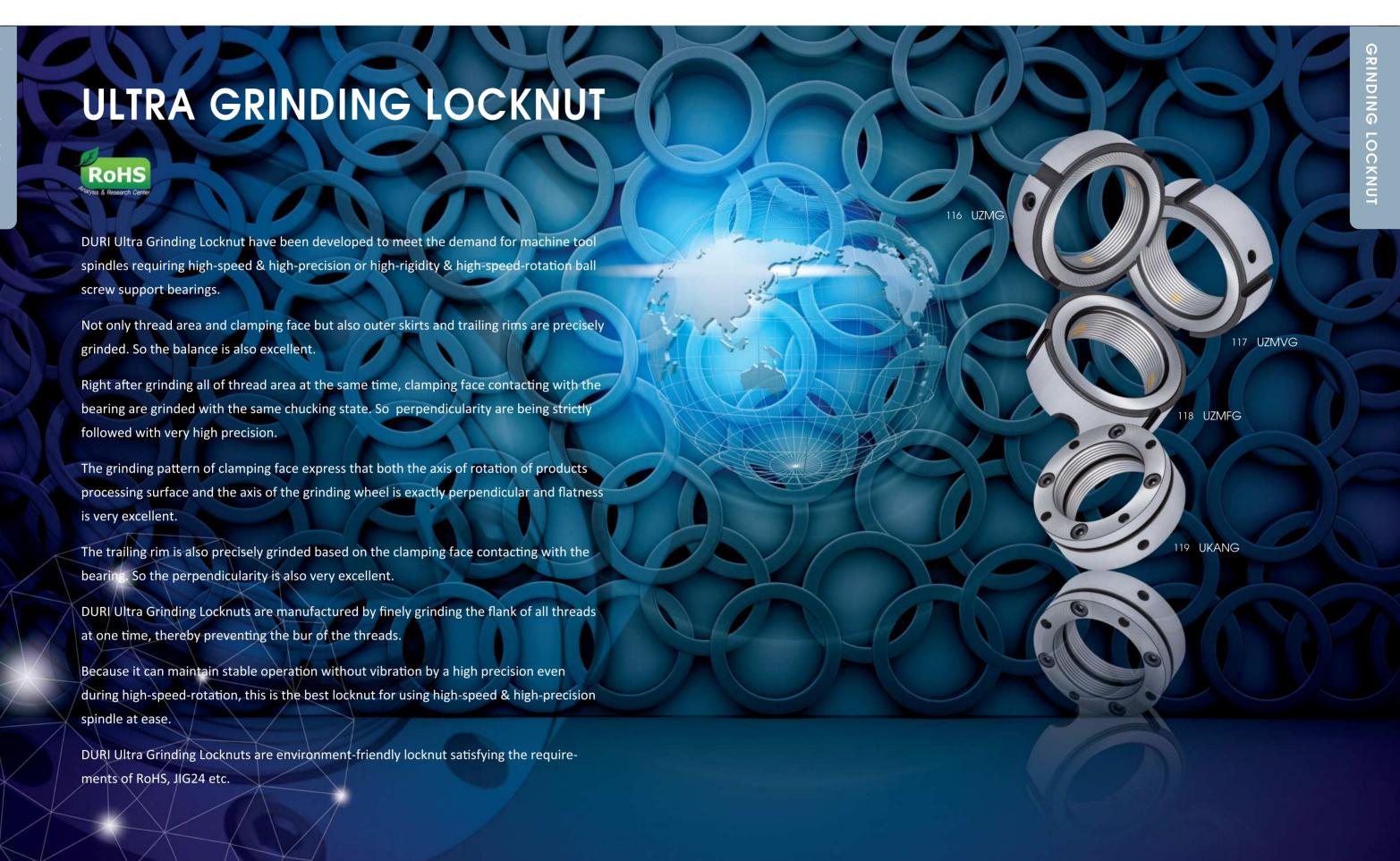




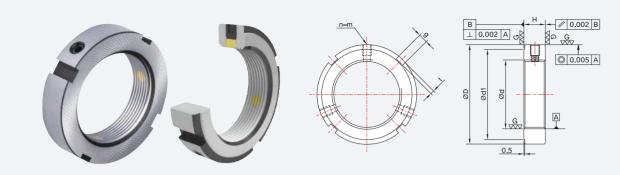








UZMVG



Features

GRINDING LOCKNUT

Thickness is comparatively thinner than other products, so this type is especially applicable for use when other types are not usable due to space restrictions.

Thread area, Clamping face, trailing rims and outer skirts were precision ground to satisfy high precision during high speed rotation.

Specifications

- Material : SCM440(42CrMo4) - Hardness : HRC 28~32 - Thread Accuracy : ISO 4H

Please use a Homepage is the latest Data and CAD

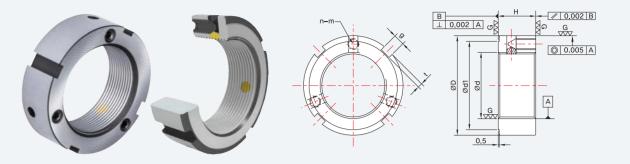
- Perpendicularity : 0.002mm

- Parallelism : 0.002mm - Concentricity: 0.005mm

Order Method (Order Example)

UZMG	30	1.5
Product NO	d	Pitch

Product NO.	D	Н	g	t	d1	n m	MAX, N·m
d X pitch	mm	mm	mm	mm	mm	n-m	WAA. N · III
UZMG8×0.75	16	8	3	2	11	2-M4	2.0
UZMG10 $ imes$ 0.75	18	8	3	2	13	2-M4	2.0
UZMG10×1	18	8	3	2	13	2-M4	2.0
UZMG12×1	22	8	3	2	16	2-M4	2.0
UZMG15×1	25	8	3	2	20	2-M4	2.0
UZMG17×1	28	10	4	2	23	2-M5	4.5
UZMG20×1	32	10	4	2	26	3-M5	4.5
UZMG25×1.5	38	12	5	2	32	3-M6	8.0
UZMG30×1.5	45	12	5	2	39	3-M6	8.0
UZMG35×1.5	52	12	5	2	46	3-M6	8.0
UZMG40×1.5	58	14	6	2.5	51	3-M6	8.0
UZMG45×1.5	65	14	6	2.5	58	3-M6	8.0
UZMG50×1.5	70	14	6	2.5	63	3-M6	8.0
UZMG55×2	75	16	7	3	67	3-M8	18.0
UZMG60×2	80	16	7	3	72	3-M8	18.0
UZMG65×2	85	16	7	3	77	3-M8	18.0
UZMG70×2	92	18	8	3.5	83	3-M8	18.0
UZMG75×2	98	18	8	3.5	89	3-M8	18.0
UZMG80×2	105	18	8	3.5	96	3-M8	18.0
UZMG85×2	110	18	8	3.5	101	3-M8	18.0
UZMG90×2	120	20	10	4	108	3-M8	18.0
UZMG95×2	125	20	10	4	113	3-M8	18.0
UZMG100×2	130	20	10	4	118	3-M8	18.0
UZMG105×2	140	22	12	5	125	3-M8	18.0
UZMG110×2	145	22	12	5	132	3-M8	18.0
UZMG115×2	150	22	12	5	137	3-M8	18.0
UZMG120×2	155	24	12	5	142	3-M8	18.0
UZMG125×2	160	24	12	5	147	3-M8	18.0
UZMG130×2	165	24	12	5	152	3-M8	18.0
UZMG135×2	175	26	14	6	160	3-M10	35.0
UZMG140×2	180	26	14	6	165	3-M10	35.0
UZMG145×2	190	26	14	6	175	3-M10	35.0
UZMG150×2	195	26	14	6	180	3-M10	35.0
UZMG155×3	200	28	16	7	180	3-M10	35.0
UZMG160×3	210	28	16	7	190	3-M10	35.0
UZMG165×3	210	28	16	7	190	3-M10	35.0
UZMG170×3	220	28	16	7	200	3-M10	35.0



Features

Locking the set screw in the axial direction.

This type is applicable for use where is restrictions of side space.

Thread area, Clamping face, trailing rims and outer skirts were precision ground to satisfy high precision during

Specifications

- Material : SCM440(42CrMo4) - Hardness : HRC 28~32 - Thread Accuracy : ISO 4H

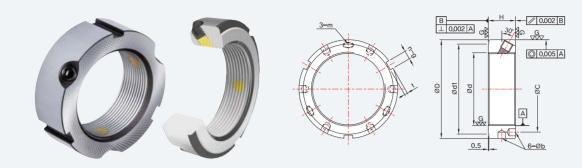
- Perpendicularity : 0.002mm - Parallelism : 0.002mm

- Concentricity: 0.005mm

UZMVG	30	1.5
Product NO	d	Pitch

Product NO.	D	Н	g	t	d1		MAX. N·m
d X pitch	mm	mm	mm	mm	mm	n-m	WAA. N · III
UZMVG17×1	28	15	4	2	23	2-M4	2.0
UZMVG20×1	32	15	4	2	26	3-M4	2.0
UZMVG25×1.5	38	17	5	2	32	3-M5	4.5
UZMVG30×1.5	45	17	5	2	39	3-M5	4.5
UZMVG35×1.5	52	17	5	2	46	3-M5	4.5
UZMVG40×1.5	58	19	6	2.5	51	3-M6	8.0
UZMVG45×1.5	65	19	6	2.5	58	3-M6	8.0
UZMVG50×1.5	70	19	6	2.5	63	3-M6	8.0
UZMVG55×2	75	21	7	3	67	3-M6	8.0
UZMVG60×2	80	21	7	3	72	3-M6	8.0
UZMVG65×2	85	21	7	3	77	3-M6	8.0
UZMVG70×2	92	23	8	3.5	83	3-M8	18.0
UZMVG75×2	98	23	8	3.5	89	3-M8	18.0
UZMVG80×2	105	23	8	3.5	96	3-M8	18.0
UZMVG85×2	110	23	8	3.5	101	3-M8	18.0
UZMVG90×2	120	25	10	4	108	3-M8	18.0
UZMVG95×2	125	25	10	4	113	3-M8	18.0
UZMVG100×2	130	25	10	4	118	3-M8	18.0
UZMVG105×2	140	27	12	5	125	3-M10	35.0
UZMVG110×2	145	27	12	5	132	3-M10	35.0
UZMVG115×2	150	27	12	5	137	3-M10	35.0
UZMVG120×2	155	29	12	5	142	3-M10	35.0
UZMVG125×2	160	29	12	5	147	3-M10	35.0
UZMVG130×2	165	29	12	5	152	3-M10	35.0
UZMVG135×2	175	31	14	6	160	3-M12	60.0
UZMVG140×2	180	31	14	6	165	3-M12	60.0
UZMVG145×2	190	31	14	6	175	3-M12	60.0
UZMVG150×2	195	31	14	6	180	3-M12	60.0
UZMVG155×3	200	33	16	7	180	3-M12	60.0
UZMVG160×3	210	33	16	7	190	3-M12	60.0
UZMVG165×3	210	33	16	7	190	3-M12	60.0
UZMVG170×3	220	33	16	7	200	3-M12	60.0

UKANG



Features

GRINDING LOCKNUT

Locking the set screw in diagonal side.

Designed with a set screw 60° relative to an axis, so you can get a stable locking force to prevent loosening.

Using the set screw, it is easy for fitting the concentric.

Thread area, Clamping face, trailing rims and outer skirts were precision ground to satisfy high precision during

high speed rotation.

Specifications

- Material : SCM440(42CrMo4) - Hardness : HRC 28~32 - Thread Accuracy : ISO 4H

- Perpendicularity : 0.002mm

- Parallelism : 0.002mm

- Concentricity : 0.005mm

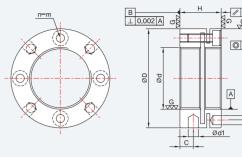
Please use a Homepage is the latest Data and CAD

Order Method (Order Example)

UZMFG	30	1.5
Product NO	d	Pitch

Product NO.	D	Н	d1	n-g	b	t	С	m	MAX, N·m
d X pitch	mm	mm	mm	mm	mm	mm	mm	"	WAA. N.III
UZMFG20×1	38	16	33	3-4	-	2	-	M6	4.5
UZMFG25×1.5	38	18	33	3-5	-	2	-	M6	8.0
UZMFG30×1.5	45	18	40	3-5	-	2	-	M6	8.0
UZMFG35×1.5	52	18	47	3-5	-	2	-	M8	18.0
UZMFG40×1.5	58	20	52	3-6	-	2.5	-	M8	18.0
UZMFG45×1.5	65	20	59	3-6	-	2.5	-	M8	18.0
UZMFG50×1.5	70	20	64	3-6	-	2.5	-	M8	18.0
UZMFG55×2	75	22	68	3-7	6	3	65	M8	18.0
UZMFG60×2	80	22	73	3-7	6	3	70	M8	18.0
UZMFG65×2	85	22	78	3-7	6	3	75	M8	18.0
UZMFG70×2	92	24	84	3-8	6	3.5	81	M8	18.0
UZMFG75×2	98	24	90	3-8	6	3.5	87	M8	18.0
UZMFG80×2	105	24	96	3-8	7	3.5	93	M8	18.0
UZMFG85×2	110	24	102	6-8	7	3.5	98	M8	18.0
UZMFG90×2	120	26	108	6-10	7	4	105	M8	18.0
UZMFG95×2	125	26	113	6-10	7	4	110	M8	18.0
UZMFG100×2	130	26	118	6-10	7	4	115	M8	18.0
UZMFG105×2	140	28	125	6-10	7	4	123	M10	35.0
UZMFG110×2	145	28	132	6-10	7	4	128	M10	35.0
UZMFG115×2	150	28	137	6-10	7	4	133	M10	35.0
UZMFG120×2	155	30	142	6-12	7	5	138	M10	35.0
UZMFG125×2	160	30	147	6-12	7	5	143	M10	35.0
UZMFG130×2	165	30	152	6-12	7	5	148	M10	35.0
UZMFG135×2	175	32	160	6-12	7	5	155	M10	35.0
UZMFG140×2	180	32	165	6-12	7	5	160	M10	35.0
UZMFG145×2	190	32	175	6-12	7	5	168	M10	35.0
UZMFG150×2	195	32	180	6-12	7	5	173	M10	35.0
UZMFG155×3	200	34	180	6-14	8	6	178	M10	35.0
UZMFG160×3	210	34	190	6-14	8	6	185	M10	35.0
UZMFG165×3	210	34	190	6-14	8	6	188	M10	35.0
UZMFG170×3	220	34	200	6-14	8	6	195	M10	35.0





Features

The locking force of this type is higher than other products due to locking male thread using the elasticity of the nut main body by force.

Highly resistant to vibration and it also can be locked by neutral.

Accuracy is very good and it is easy to fitting the concentric.

Thread area, Clamping face, trailing rims and outer skirts were precision ground to satisfy high precision during

Specifications

- Material : SCM440(42CrMo4) - Hardness : HRC 28~32 - Thread Accuracy : ISO 4H

- Perpendicularity : 0.002mm - Parallelism : 0.002mm - Concentricity: 0.005mm

UKANG	30	1.5
Product NO	d	Pitch

Product NO.	D	Н	d1	d2	d3	C	Holes	n-m	MAX, N·m
d X pitch	mm	mm	mm	mm	mm	mm	Tioles	11-111	WAA. N'III
UKANG20×1.5	40	18	4	30.5	4.5	5	4	4-M4×12	3.0
UKANG22×1.5	40	18	4	30.5	4.5	5	4	$4\text{-M}4\times12$	3.0
UKANG24×1.5	42	18	4	32.5	4.5	5	4	$4\text{-M}4\times12$	3.0
UKANG25×1.5	45	20	5	36.5	4.5	6.5	4	$4\text{-M}4\times12$	3.0
UKANG28×1.5	46	20	5	38.5	4.5	6.5	4	$4\text{-M4}\times12$	3.0
UKANG30×1.5	48	20	5	40.5	4.5	6.5	4	$4\text{-M}4\times12$	3.0
UKANG32×1.5	50	22	5	42.5	4.5	7	4	$4\text{-M4}\times16$	3.0
UKANG35×1.5	53	22	5	45.5	4.5	7	4	$4\text{-M4}\times16$	3.0
UKANG38×1.5	58	22	5	48.5	4.5	7	4	$4\text{-M4}\times16$	3.0
UKANG40×1.5	58	22	5	50.5	4.5	7	4	$4\text{-M4}\times16$	3.0
UKANG42×1.5	60	22	5	52.5	4.5	7	4	$4\text{-M4}\times16$	3.0
UKANG45×1.5	68	22	6	58	4.5	6.5	6	6-M4×16	3.0
UKANG48×1.5	68	25	6	59.5	4.5	9	6	6-M4×18	3.0
UKANG50×1.5	70	25	6	61.5	4.5	9	6	6-M4×18	3.0
UKANG52×1.5	72	25	6	63.5	4.5	9	6	6-M4×18	3.0
UKANG55×1.5	75	25	6	66.5	4.5	9	6	6-M4×18	3.0
UKANG58×1.5	82	26	6	72.5	5.5	9	6	6-M5×18	6.0
UKANG60×1.5	84	26	6	74.5	5.5	9	6	6-M5×18	6.0
UKANG62×1.5	86	28	6	76.5	5.5	10.5	6	$6\text{-M}5\times20$	6.0
UKANG65×1.5	88	28	6	78.5	5.5	10.5	6	$6\text{-M}5\times20$	6.0
UKANG68×1.5	95	28	8	83	5.5	9.5	6	$6\text{-M}5\times20$	6.0
UKANG70×1.5	95	28	8	85	5.5	9.5	6	$6\text{-M}5\times20$	6.0
UKANG72×1.5	98	28	8	86	6.5	8.5	6	$6\text{-M}6\times20$	10.0
UKANG75×1.5	100	28	8	88	6.5	8.5	6	$6\text{-M}6\times20$	10.0
UKANG80×2	110	32	8	95	6.5	11	6	$6\text{-M}6\times22$	10.0
UKANG85×2	115	32	8	100	6.5	11	6	$6\text{-M}6\times22$	10.0
UKANG90×2	120	32	8	108	6.5	11	6	6-M6×22	10.0
UKANG95×2	125	32	8	113	6.5	11	6	$6\text{-M}6\times22$	10.0
UKANG100×2	130	32	8	118	6.5	11	6	6-M6×22	10.0
UKANG105×2	135	32	8	123	6.5	11	6	$6\text{-M}6\times22$	10.0
UKANG110×2	140	32	8	128	6.5	11	6	6-M6×22	10.0
UKANG115×2	145	36	8	133	6.5	12	6	6-M6×25	10.0
UKANG120×2	155	36	8	140	6.5	12	6	6-M6×25	10.0
UKANG125×2	160	36	8	148	6.5	12	6	$6\text{-M}6\times25$	10.0
UKANG130×3	165	36	8	153	6.5	12	6	6-M6×25	10.0
UKANG140×3	180	38	10	160	10	10	8	$8\text{-M}6\times25$	10.0
UKANG150×3	190	38	10	170	10	10	8	8-M6×25	10.0
UKANG160×3	205	40	10	178	10	12	8	$8\text{-M8}\times30$	25.0
UKANG170×3	215	40	10	193	10	12	8	8-M8×30	25.0



GRINDING

LOCKNU1

ULTRA BALANCING GRINDING LOCKNUT



DURI Ultra Balancing Grinding Locknut have been developed and optimized to direct drive spindle with built-in motor in order to meet the request of ultra-high-speed & ultra-high-precision spindle manufacturer.

The thread area, clamping face, outer skirts and trailing rims are precisely grinded.

The balance adjusting screw holes are provided in the circumference, so it is the structure that can facilitate the balance adjustment of the main spindle.

Right after grinding all of thread area at the same time, clamping face contacting with the bearing are grinded with the same chucking state.

So perpendicularity are being strictly followed with very high precision.

The grinding pattern of clamping face express that both the axis of rotation of products processing surface and the axis of the grinding wheel is exactly perpendicular and flatness is very excellent.

The trailing rim is also precisely grinded based on the clamping face contacting with the bearing. So the perpendicularity is also very excellent.

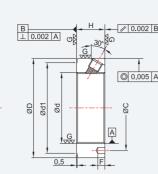
DURI Ultra Balancing Grinding Locknuts are manufactured by finely grinding the flank of all threads at one time, thereby preventing the bur of the threads.

Because it can maintain stable operation without vibration by a high precision even during high-speed-rotation, this is the best locknut for using high-speed & high-precision spindle at

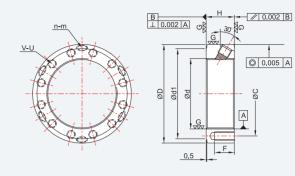
Set screws for adjusting the alignment are composed of 3 or 6 depending on the type.

DURI Ultra Balancing Grinding Locknuts are a environment-friendly locknut satisfying the requirements of RoHS, JIG24 etc.









GRINDING LOCKNUT

Designed with a set screw 60° relative to an axis, so it is easy to fit concentric. Due to the 6 set screw, loosening torque is superior to the existing locknut with only 3 set screws. Inner threads, outer skirts, Clamping face and trailing rims are all precision ground, so enhanced accuracy.

Specifications

- Material : SCM440(42CrMo4)
- Hardness : HRC 48~52
- Thread Accuracy : ISO 4H

- Perpendicularity : 0.002mm
- Parallelism : 0.002mm
- Concentricity: 0.005mm

Please use a Homepage is the latest Data and CAD

Order Method (Order Example)

UBGN-A	30	1.5
Product NO	d	Pitch

Product NO.	D	н	d1	V-U	C	F		MAX. N·m
d X pitch	mm	mm	mm	V-U	mm	mm	n-m	WAX. N·III
UBGN-A 20×1	38	16	33	3-Ø4.3	26	5	6-M5	4.5
UBGN-A 20×1.5	38	16	33	3-Ø4.3	26	5	6-M6	8.0
UBGN-A 25×1.5	38	18	33	3-Ø4.3	32	5	6-M6	8.0
UBGN-A 30×1.5	45	18	40	3-Ø4.3	38	5	6-M6	8.0
UBGN-A 35×1.5	52	18	47	3-Ø4.3	44	5	6-M8	18.0
UBGN-A 40×1.5	58	20	52	3-Ø4.3	50	5	6-M8	18.0
UBGN-A 45×1.5	65	20	59	3-Ø4.3	56	5	6-M8	18.0
UBGN-A 50×1.5	70	20	64	3-Ø4.3	60	5	6-M8	18.0
UBGN-A 55×2	75	22	68	3-Ø4.3	66	5	6-M8	18.0
UBGN-A 60×2	80	22	73	3-Ø5.3	70	6	6-M8	18.0
UBGN-A 65×2	85	22	78	3-Ø5.3	76	6	6-M8	18.0
UBGN-A 70×2	92	24	84	3-Ø5.3	82	6	6-M8	18.0
UBGN-A 75×2	98	24	90	3-Ø5.3	86	6	6-M8	18.0
UBGN-A 80×2	105	24	96	3-Ø5.3	92	6	6-M8	18.0
UBGN-A 85×2	110	24	102	3-Ø6.4	98	7	6-M8	18.0
UBGN-A 90×2	120	26	108	3-Ø6.4	106	7	6-M8	18.0
UBGN-A 95×2	125	26	113	3-Ø6.4	110	7	6-M8	18.0
UBGN-A 100×2	130	26	118	3-Ø6.4	116	7	6-M8	18.0
UBGN-A 105×2	140	28	125	3-Ø6.4	122	7	6-M10	35.0
UBGN-A 110×2	145	28	132	3-Ø6.4	128	7	6-M10	35.0
UBGN-A 115×2	150	28	137	3-Ø6.4	132	7	6-M10	35.0
UBGN-A 120×2	155	30	142	3-Ø6.4	138	7	6-M10	35.0
UBGN-A 125×2	160	30	147	3-Ø6.4	142	7	6-M10	35.0
UBGN-A 130×2	165	30	152	3-Ø6.4	148	7	6-M10	35.0
UBGN-A 135×2	175	32	160	3-Ø6.4	156	7	6-M10	35.0
UBGN-A 140×2	180	32	165	3-Ø6.4	160	7	6-M10	35.0
UBGN-A 145×2	190	32	175	3-Ø6.4	168	7	6-M10	35.0
UBGN-A 150×2	195	32	180	3-Ø6.4	172	7	6-M10	35.0

Features

Designed with a set screw 60° relative to an axis, so it is easy to fit concentric and loosening torque is relatively superior. In case of this type, balancing adjustment tap-hole was placed on the back of locknut to axle direction. Inner threads, outer skirts, Clamping face and trailing rims are all precision ground, so enhanced accuracy.

Specifications

- Material : SCM440(42CrMo4) Hardness : HRC 48~52
- Thread Accuracy : ISO 4H

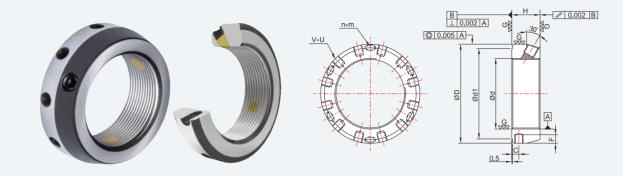
- Perpendicularity : 0.002mm
- Parallelism : 0.002mm
- Concentricity: 0.005mm

UBGN-B	30	1.5
Product NO	d	Pitch

Product NO.	D	Н	d1	V II	V-U	C	F		MAX. N·m
d X pitch	mm	mm	mm	V-U	mm	mm	n-m	WAA. N · III	
UBGN-B 20 $ imes$ 1	38	16	33	6-M4	26	10	3-M5	4.5	
UBGN-B 20×1.5	38	16	33	6-M4	26	10	3-M6	8.0	
UBGN-B 25×1.5	38	18	33	6-M4	32	12	3-M6	8.0	
UBGN-B 30×1.5	45	18	40	9-M4	38	12	3-M6	8.0	
UBGN-B 35×1.5	52	18	47	9-M4	44	12	3-M8	18.0	
UBGN-B 40×1.5	58	20	52	9-M5	50	14	3-M8	18.0	
UBGN-B 45 $ imes$ 1.5	65	20	59	9-M5	56	14	3-M8	18.0	
UBGN-B 50×1.5	70	20	64	12-M5	60	14	6-M8	18.0	
UBGN-B 55×2	75	22	68	12-M5	66	16	6-M8	18.0	
UBGN-B 60×2	80	22	73	12-M5	70	16	6-M8	18.0	
UBGN-B 65×2	85	22	78	12-M5	76	16	6-M8	18.0	
UBGN-B 70×2	92	24	84	12-M5	82	18	6-M8	18.0	
UBGN-B 75 \times 2	98	24	90	12-M5	86	18	6-M8	18.0	
UBGN-B 80×2	105	24	96	12-M5	92	18	6-M8	18.0	
UBGN-B 85×2	110	24	102	12-M5	98	18	6-M8	18.0	
UBGN-B 90×2	120	26	108	12-M5	106	20	6-M8	18.0	
UBGN-B 95×2	125	26	113	12-M5	110	20	6-M8	18.0	
UBGN-B 100 $ imes$ 2	130	26	118	12-M6	116	20	6-M8	18.0	
UBGN-B 105 $ imes$ 2	140	28	125	12-M6	122	22	6-M10	35.0	
UBGN-B 110×2	145	28	132	12-M6	128	22	6-M10	35.0	
UBGN-B 115 $ imes$ 2	150	28	137	12-M6	132	22	6-M10	35.0	
UBGN-B 120 $ imes$ 2	155	30	142	12-M6	138	24	6-M10	35.0	
UBGN-B 125 $ imes$ 2	160	30	147	12-M6	142	24	6-M10	35.0	
UBGN-B 130 $ imes$ 2	165	30	152	12-M6	148	24	6-M10	35.0	
UBGN-B 135 $ imes$ 2	175	32	160	12-M6	156	26	6-M10	35.0	
UBGN-B 140×2	180	32	165	12-M6	160	26	6-M10	35.0	
UBGN-B 145×2	190	32	175	12-M6	168	26	6-M10	35.0	
UBGN-B 150×2	195	32	180	12-M6	172	26	6-M10	35.0	

GRINDING LOCKNUT

UBGN-D



Features

GRINDING LOCKNUT

Designed with a set screw 60° relative to an axis, so it is easy to fit concentric and loosening torque is relatively superior. In case of this type, balancing adjustment tap-hole was placed on the outer skirts of locknut to axle direction. Inner threads, outer skirts, Clamping face and trailing rims are all precision ground, so enhanced

Specifications

- Material : SCM440(42CrMo4)
- Hardness : HRC 48~52 Thread Accuracy : ISO 4H
- Perpendicularity : 0.002mm
- Parallelism : 0.002mm
- Concentricity: 0.005mm

Please use a Homepage is the latest Data and CAD

Order Method (Order Example)

UBGN-C	30	1.5		
Product NO	d	Pitch		

Product NO. d X pitch UBGN-C 20×1 UBGN-C 20×1.5	D mm 38 38	H mm 16	d1 mm	V-U	C	F		
UBGN-C 20×1 UBGN-C 20×1.5	38		mm	- 0			n-m	MAX. N·m
UBGN-C 20×1.5				0.144	mm	mm	0.145	4.5
	38		33	6-M4	4	5	3-M5	4.5
		16	33	6-M4	4	5	3-M6	8.0
UBGN-C 25×1.5	38	18	33	6-M4	4.5	4	3-M6	8.0
UBGN-C 30×1.5	45	18	40	9 - M4	4.5	5	3-M6	8.0
UBGN-C 35×1.5	52	18	47	9-M4	4.5	5	3-M8	18.0
UBGN-C 40×1.5	58	20	52	9 -M 5	5	5	3-M8	18.0
UBGN-C 45×1.5	65	20	59	9-M5	5	6	3-M8	18.0
UBGN-C 50×1.5	70	20	64	12 -M 5	5	6	6-M8	18.0
UBGN-C 55×2	75	22	68	12 -M 5	5.5	6	6-M8	18.0
UBGN-C 60×2	80	22	73	12 -M 5	5.5	6	6-M8	18.0
UBGN-C 65×2	85	22	78	12 -M 5	5.5	6	6-M8	18.0
UBGN-C 70×2	92	24	84	12 -M 5	6	7	6-M8	18.0
UBGN-C 75×2	98	24	90	12-M5	6	7	6-M8	18.0
UBGN-C 80×2	105	24	96	12 -M 5	6	8	6-M8	18.0
UBGN-C 85×2	110	24	102	12-M5	6	8	6-M8	18.0
UBGN-C 90×2	120	26	108	12 -M 5	6.5	9	6-M8	18.0
UBGN-C 95×2	125	26	113	12-M5	6.5	9	6-M8	18.0
UBGN-C 100×2	130	26	118	12-M6	6.5	9	6-M8	18.0
UBGN-C 105×2	140	28	125	12-M6	7	11	6-M10	35.0
UBGN-C 110×2	145	28	132	12-M6	7	11	6-M10	35.0
UBGN-C 115×2	150	28	137	12-M6	7	11	6-M10	35.0
UBGN-C 120×2	155	30	142	12-M6	7.5	11	6-M10	35.0
UBGN-C 125×2	160	30	147	12-M6	7.5	11	6-M10	35.0
UBGN-C 130×2	165	30	152	12 -M 6	7.5	11	6-M10	35.0
UBGN-C 135×2	175	32	160	12-M6	8	14	6-M10	35.0
UBGN-C 140×2	180	32	165	12-M6	8	14	6-M10	35.0
UBGN-C 145×2	190	32	175	12-M6	8	16	6-M10	35.0
UBGN-C 150×2	195	32	180	12-M6	8	16	6-M10	35.0



Features

This type is suitable for assembly with restricted or narrow space due to be thinner than A, B and C type. In case of this type, balancing adjustment tap-hole was placed on the back of locknut to axle direction. Inner threads, outer skirts, Clamping face and trailing rims are all precision ground, so enhanced accuracy.

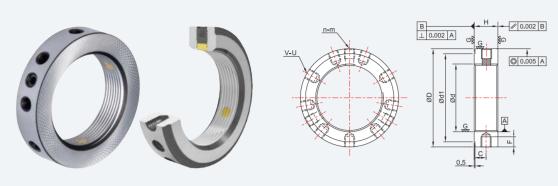
Specifications

- Material : SCM440(42CrMo4)
- Hardness : HRC 48~52
- Thread Accuracy : ISO 4H

- Perpendicularity : 0.002mm
- Parallelism : 0.002mm
- Concentricity: 0.005mm

UBGN-D	30	1.5		
Product NO	d	Pitch		

Product NO.	D	н	d1	V-U	C	F		MAX. N·m
d X pitch	mm	mm	mm	V-U	mm	mm	n-m	WAA. N · III
UBGN-D 20 $ imes$ 1	32	10	27	6-M4	26	5	3-M5	4.5
UBGN-D 20 $ imes$ 1.5	32	10	27	6-M4	26	5	3-M5	4.5
UBGN-D 25 $ imes$ 1.5	38	12	33	6-M4	32	6	3-M6	8.0
UBGN-D 30×1.5	45	12	40	9-M4	38	6	3-M6	8.0
UBGN-D 35 $ imes$ 1.5	52	12	47	9-M4	44	6	3-M6	8.0
UBGN-D 40×1.5	58	14	52	9 -M 5	50	8	3-M6	8.0
UBGN-D 45 $ imes$ 1.5	65	14	59	9 -M 5	56	8	3-M6	8.0
UBGN-D 50×1.5	70	14	64	12 -M 5	60	8	6-M8	18.0
UBGN-D 55×2	75	16	68	12 -M 5	66	10	6-M8	18.0
UBGN-D 60×2	80	16	73	12 -M 5	70	10	6-M8	18.0
UBGN-D 65×2	85	16	78	12 -M 5	76	10	6-M8	18.0
UBGN-D 70×2	92	18	84	12 -M 5	82	12	6-M8	18.0
UBGN-D 75 $ imes$ 2	98	18	90	12 -M 5	86	12	6-M8	18.0
UBGN-D 80×2	105	18	96	12 -M 5	92	12	6-M8	18.0
UBGN-D 85×2	110	18	102	12 -M 5	98	12	6-M8	18.0
UBGN-D 90×2	120	20	108	12 -M 5	106	14	6-M8	18.0
UBGN-D 95 $ imes$ 2	125	20	113	12 -M 5	110	14	6-M8	18.0
UBGN-D 100 $ imes$ 2	130	20	118	12 -M 6	116	14	6-M8	18.0
UBGN-D 105 $ imes$ 2	140	22	125	12 -M 6	122	16	6-M8	18.0
UBGN-D 110×2	145	22	132	12-M6	128	16	6-M8	18.0
UBGN-D 115 \times 2	150	22	137	12-M6	132	16	6-M8	18.0
UBGN-D 120 $ imes$ 2	155	24	142	12 -M 6	138	18	6-M8	18.0
UBGN-D 125 $ imes$ 2	160	24	147	12 -M 6	142	18	6-M8	18.0
UBGN-D 130×2	165	24	152	12 - M6	148	18	6-M8	18.0
UBGN-D 135 $ imes$ 2	175	26	160	12 -M 6	156	20	6-M10	35.0
UBGN-D 140×2	180	26	165	12 - M6	160	20	6-M10	35.0
UBGN-D 145 $ imes$ 2	190	26	175	12 - M6	168	20	6-M10	35.0
UBGN-D 150×2	195	26	180	12-M6	172	20	6-M10	35.0



This type is suitable for assembly with restricted or narrow space due to be thinner than A, B and C type. In case of this type, balancing adjustment tap-hole was placed on the outer skirts of locknut to axle direction. Inner threads, outer skirts, Clamping face and trailing rims are all precision ground, so enhanced accuracy.

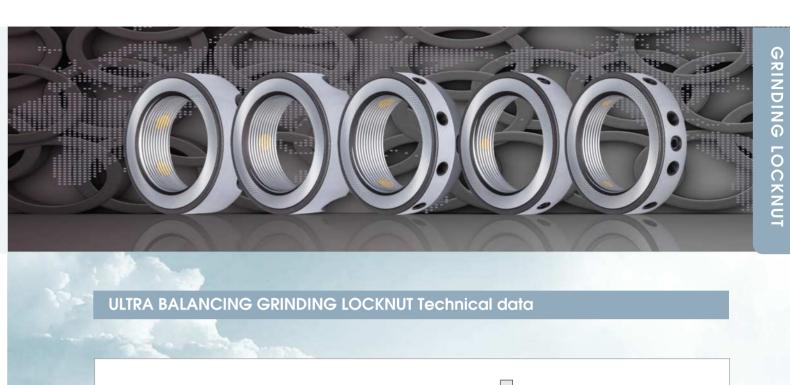
Specifications

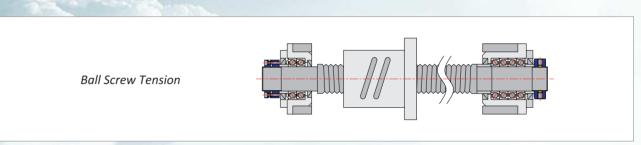
- Material : SCM440(42CrMo4) Hardness : HRC 48~52 Thread Accuracy : ISO 4H
- Perpendicularity: 0.002mm
- Parallelism : 0.002mm
- Concentricity: 0.005mm

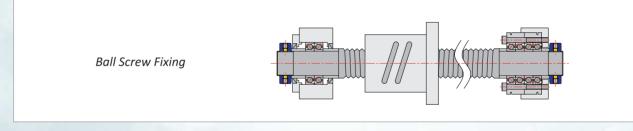
Order Method (Order Example)

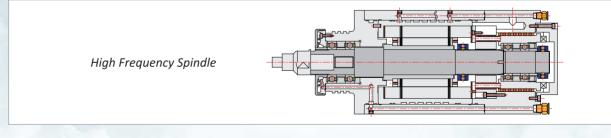
UBGN-E	30	1.5
Product NO	d	Pitch

Product NO.	D	н	d1		C	F		
d X pitch	mm	mm	mm	V-U	mm	mm	n-m	MAX. N·m
UBGN-E 20×1	32	10	27	6-M4	5	3	3-M5	4.5
UBGN-E 20×1.5	32	10	27	6-M4	5	3	3-M5	4.5
UBGN-E 25×1.5	38	12	33	6-M4	6	3	3-M6	8.0
UBGN-E 30×1.5	45	12	40	6-M4	6	4	3-M6	8.0
UBGN-E 35×1.5	52	12	47	9-M4	6	4	3-M6	8.0
UBGN-E 40×1.5	58	14	52	9 -M 5	7	5	3-M6	8.0
UBGN-E 45×1.5	65	14	59	9-M5	7	6	3-M6	8.0
UBGN-E 50×1.5	70	14	64	12 -M 5	7	6	6-M8	18.0
UBGN-E 55×2	75	16	68	12-M5	8	6	6-M8	18.0
UBGN-E 60×2	80	16	73	12 -M 5	8	6	6-M8	18.0
UBGN-E 65×2	85	16	78	12 -M 5	8	6	6-M8	18.0
UBGN-E 70×2	92	18	84	12 - M5	9	6	6-M8	18.0
UBGN-E 75×2	98	18	90	12 -M 5	9	6	6-M8	18.0
UBGN-E 80×2	105	18	96	12 -M 5	9	8	6-M8	18.0
UBGN-E 85×2	110	18	102	12 -M 5	9	8	6-M8	18.0
UBGN-E 90×2	120	20	108	12 -M 5	10	9	6-M8	18.0
UBGN-E 95×2	125	20	113	12-M5	10	9	6-M8	18.0
UBGN-E 100×2	130	20	118	12-M6	10	9	6-M8	18.0
UBGN-E 105 $ imes$ 2	140	22	125	12 -M 6	11	11	6-M8	18.0
UBGN-E 110×2	145	22	132	12 -M 6	11	11	6-M8	18.0
UBGN-E 115×2	150	22	137	12-M6	11	11	6-M8	18.0
UBGN-E 120×2	155	24	142	12 -M 6	12	11	6-M8	18.0
UBGN-E 125 $ imes$ 2	160	24	147	12-M6	12	11	6-M8	18.0
UBGN-E 130×2	165	24	152	12 - M6	12	11	6-M8	18.0
UBGN-E 135 $ imes$ 2	175	26	160	12-M6	13	14	6-M10	35.0
UBGN-E 140×2	180	26	165	12 -M 6	13	14	6-M10	35.0
UBGN-E 145 $ imes$ 2	190	26	175	12-M6	13	16	6-M10	35.0
UBGN-E 150×2	195	26	180	12-M6	13	16	6-M10	35.0









Belt Driven Spindle 00

DURI History & Certificates



1999.01 Establishment DURI Trade Company 2000.01 Establishment DURI's First Factory 2004.05 Establishment of DURI's R&D Center 2004.06 Establishment DURI's Second Factory 2005.01 Change to DURII Mitec Co., Ltd. For Corporate Body 2007.06 Relocation First and Second Factory (The Current point) 2009.04 Optain ISO 9001/14001 2012.01 Trademark Registration of DURI Mitec (40-0906438) 2012.09 Design Registration of Coupling (30-0661997) 2012.11 Patent Registration of Precision Locknut (10-1202803) 2013.04 RoHS Certification-Locknut 2013.05 RoHS Certification-Locking Element, Coupling 2013.05 Parts and Material Company Certification 2013.07 INNO-BIZ Certification 2013.08 Open Chang-Won Office (Domestic) 2013.11 Selection of Military Service Designated Companies 2014.08 Localized Successes of Coupling for Machine Tool 2014.10 Release of Grinding Locknut for the First time in Korea 2016.01 Establishment China Shanghai Office 2016.03 Establishment Japan Osaka Branch Office 2016.06 Patent Registration of Integrated Flexible Coupling (10-1628789) 2013.09 Awards Presidential Citation for Developing Outstanding Capital Goods 2016.10 Design Registration Connector of Coupling for Power Transmission (30-0875978) 2016.10 Design Registration Coupling for Power Transmission (30-0875980) 2016.10 Design Registration Connector of Coupling for Power Transmission (30-0879347)





2018.11 Application for Power Transmission Coupling Design











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디자인등록증

DURI World Network

