HIGH RIGIDITY COUPLINGS FOR MACHINE TOOL

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Micro Technology

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DURI

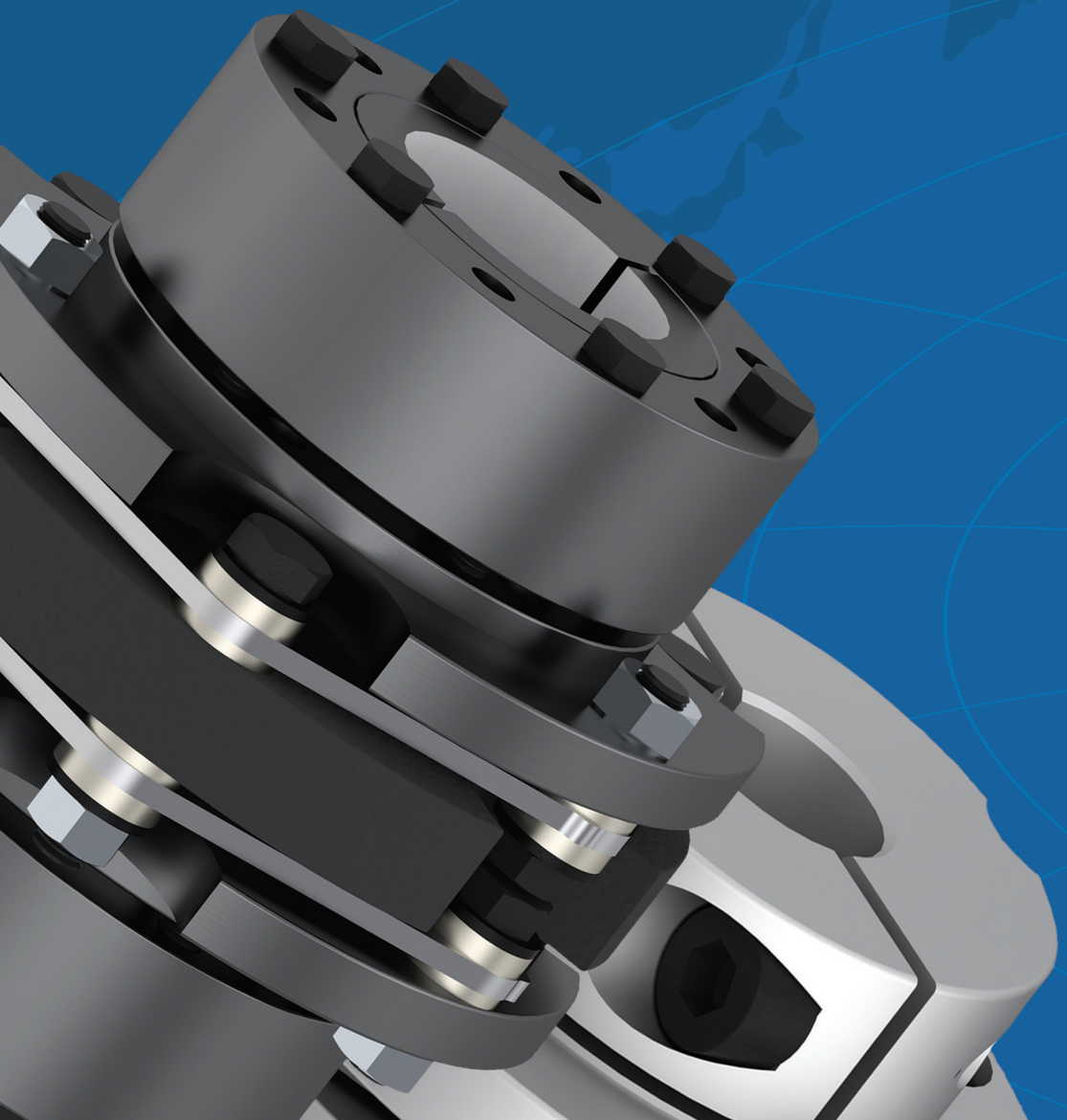
HIGH RIGIDITY COUPLINGS FOR MACHINE TOOL

Constant challenge and Continuous research and Development

DURI is specialized in machine tools and automation components.
We have expanded our knowledge and scope of coupling through steady quality improvement and technology development.
As a result, we have launched our new coupling series based on our accumulated knowledge, technology and experience.

This coupling series is a coupling for machine tools.
It is thoroughly managed through excellent technology and strict quality inspection.
Experience the breakthrough performance of the coupling series for machine tools created with advanced technology.

Technological enterprise of trust of machine tool coupling!



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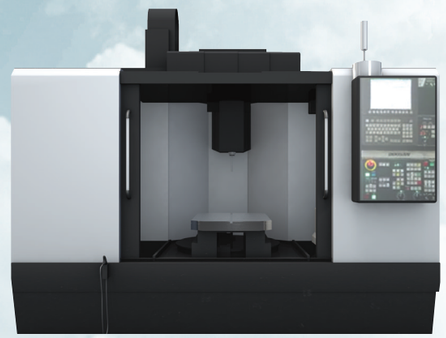
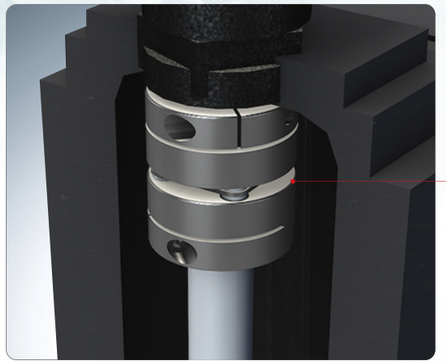
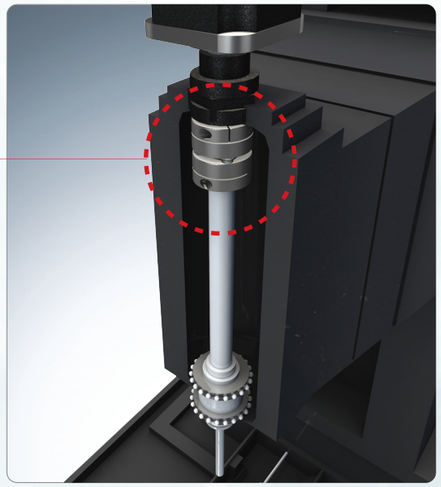
APPLICATION

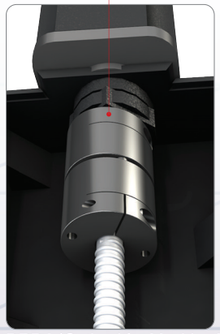
High Rigidity Disk Couplings for Machine Tool

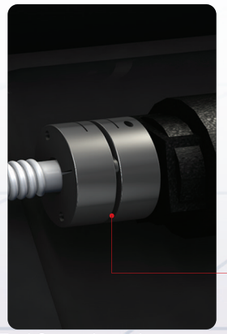




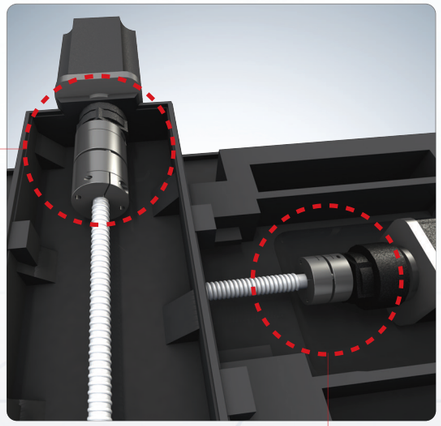
DRDA/Optimal for Machine Tool Spindle

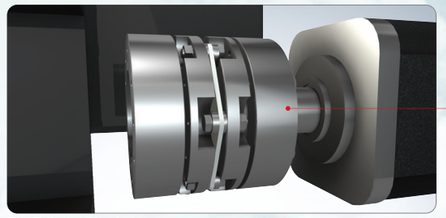




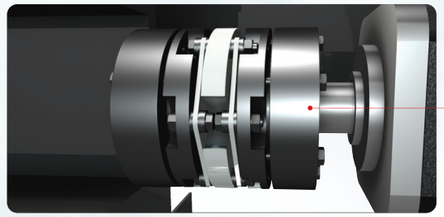


DRDA/Optimal for Machine Tool Conveying Axis

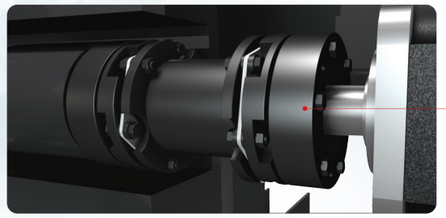




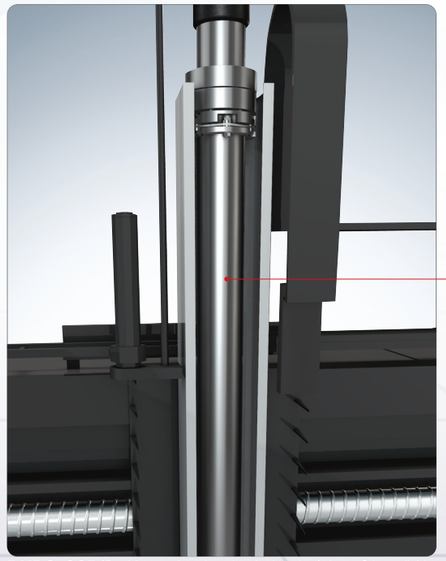
DHDS-A/Single type



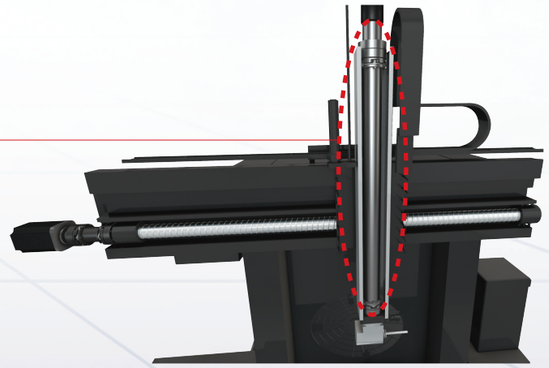
DHDS-B/Double type with plate between the hubs



DHDS-C/Double type with sleeve 1 between the hubs



DHDS-CSP/Double type that changing the length of sleeve S is available



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DRDA Series
DURI Rectangle Disk Aluminum Coupling

Innovative Performance Advanced Technology of DURI

The Flexible coupling of Disk type.
A highly stiffness disk coupling for Machine tool.
Zero backlash.
The material is aluminum alloy with high Stiffness, So inertia moment is low.
It is optimal for Machine tool spindle and Conveying Axis.
Due to Assemble using a Dedicated jig, Ensure a High Concentricity.
It is Possible to Specify total length,
It Offers a variety of Options such processing keyway.

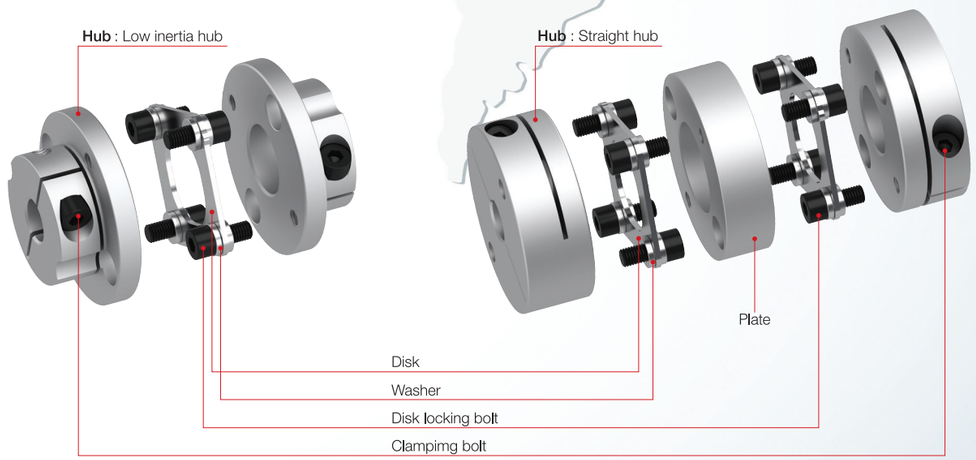
FEATURE

High Stiffness and Various type
Due to the high-strength aluminum alloy of high strength and the outer diameter of the shaft-linking hub, the low inertia most suitable for high-speed operation is achieved. There are 3 types according to the combination of the bore diameter of the coupling, so you can choose the best type. Depending on the type, different shapes and diameters can be selected and combined.

Simple and secure fastening
When fastening to the shaft, it is possible to securely fasten and shorten assembly time.
Because it is centered with a dedicated jig, it has a very high concentricity.

Various options
A wide variety of options such as a length-specified and Keyway milling application are available.
In addition, tap hole machining are available on the hub section.
Combinations of options are also possible, so you can provide various specifications.

STRUCTURE & MATERIAL



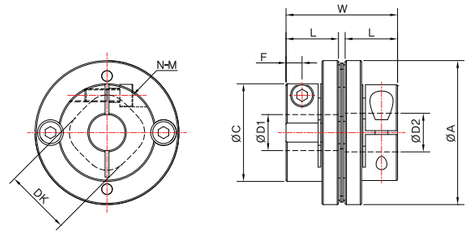
Hub	: Aluminum alloy with high stiffness
Hub surface treatment	: Alumite
Clamping bolt	: SCM440
Disk	: SUS304
Washer	: SUS304 & STEEL
Plate	: Aluminum alloy with high stiffness
Plate Surface treatment	: Alumite
Disk locking bolt	: SCM440

APPLICATION

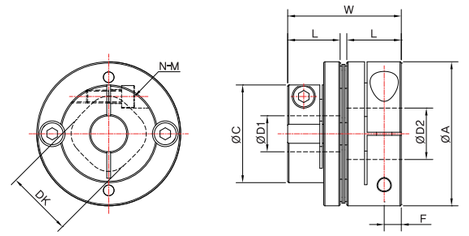
Machine tool, Actuator, Chip mounter, Semiconductor manufacturing equipment, Packing machine

DRDA-A/Single type

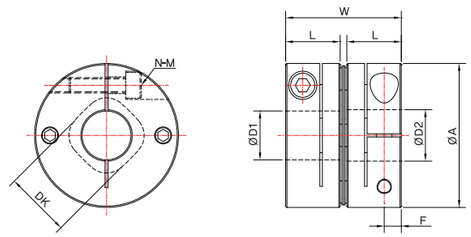
A type : Combination of Low inertia hubs



B type : Combination of Low inertia hub and Straight hub



C type : Combination of Straight hubs



Order method (Example)

DRDA-44	A	Ø10	Ø12
Coupling-Size	Single type	Bore : D1	Bore : D2

* Supported Shaft Tolerance/h7(h6, g6)

Dimensions

unit (mm)

Product No.	Type	D1		D2		A	C	W	L	F	DK	N-M	Tightening torque
		Min.	Max.	Min.	Max.								N·m
DRDA- 44A	A	8	15	8	15	44	29.6	34	15.4	4.65	19.5	2-M4	3.4~4.1
	B	8	15	Over 15	24		29.6						
	C	Over 15	19	Over 15	24		-						
DRDA- 56A	A	8	19	8	19	56	38	43.4	20.46	6.25	26	2-M5	7.0~8.5
	B	8	19	Over 19	30		38						
	C	Over 19	25	Over 19	30		-						
DRDA- 63A	C	10	30	10	30	63	-	50.6	24	7.75	31	2-M6	14~15
DRDA- 68A	A	11	24	11	24	68	46	53.6	25.2	8	31	2-M6	14~15
	B	11	24	Over 24	35		46						
	C	Over 24	30	Over 24	35		-						
DRDA- 82A	C	18	35	18	40	82	-	68	30	9	38	2-M8	27~30
DRDA- 94A	C	25	40	25	45	94	-	68.3	30	9	42	2-M8	27~30
DRDA-104A	C	32	45	32	45	104	-	69.8	30	9	48	2-M8	27~30

* For Information on Other tolerances, Contact DURI.

Specifications

Product No.	Type	Rated Torque	Misalignment			Max. Speed	Torsional Stiffness	Axial Stiffness	Moment of Inertia	Mass
		N·m	Parallel (mm)	Angular (°)	Axial (mm)	min^{-1}	N·m/rad	N/mm	$kg·m^2$	kg
DRDA- 44A	A	12	0.02	1	±0.3	10,000	20,000	80	16.71×10^{-6}	0.077
	B								22.55×10^{-6}	0.085
	C								29.25×10^{-6}	0.100
DRDA- 56A	A	25	0.02	1	±0.4	10,000	32,000	48	55.71×10^{-6}	0.159
	B								76.26×10^{-6}	0.177
	C								99.03×10^{-6}	0.206
DRDA- 63A	C	40	0.02	1	±0.42	10,000	50,000	43	188.0×10^{-6}	0.314
DRDA- 68A	A	60	0.02	1	±0.45	10,000	70,000	76.4	145.9×10^{-6}	0.283
	B								205.0×10^{-6}	0.326
	C								268.6×10^{-6}	0.385
DRDA- 82A	C	100	0.02	1	±0.55	10,000	140,000	128	710.6×10^{-6}	0.708
DRDA- 94A	C	180	0.02	1	±0.65	10,000	100,000	108	1236×10^{-6}	0.946
DRDA-104A	C	250	0.02	1	±0.74	10,000	120,000	111	1891×10^{-6}	1.202

* Depending on the bore diameter, rated torque of the couplings may be limited. Consult "Standard Bore Diameters."
* Max. Speed does not take into account dynamic balance.
* Torsional stiffness values given are measured values for the disk alone.
* The moment of inertia and mass are measured for the maximum bore diameter.

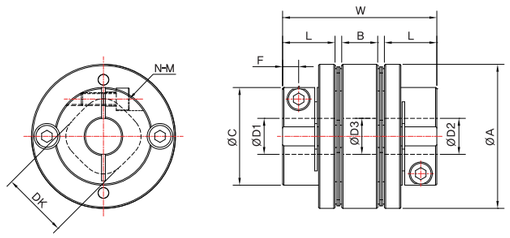
Standard Bore Diameter

Product No.	Standard bore diameter D1, D2 (mm)																							
	8	9	9.525	10	11	12	13	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45
DRDA- 44A	9	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○									
DRDA- 56A	18	20	22	22	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○						
DRDA- 63A				31	34	36	38	●	●	●	●	●	●	●	●	●	●	●	●						
DRDA- 68A					50	51	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○				
DRDA- 82A												●	●	●	●	●	●	●	●	●	●	○	○		
DRDA- 94A																	●	●	●	●	●	●	●	○	○
DRDA-104A																				226	●	●	●	●	●

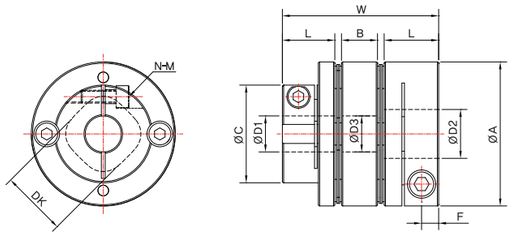
* The Machining tolerance for paired mounting shafts is h7(h6 or g6) class.
* Bore diameters marked with ●, ○ or numbers are supported as the standard bore diameters.
* Bore diameters marked with ○ have restrictions on the Inner diameter of the Disk, so axis penetration is impossible.
* Bore diameters whose fields contain numbers are restricted in their rated torque by the holding power of the shaft connection component because the bore diameter is small. The numbers indicate the rated torque [N-m]
* Please contact us regarding special arrangements for Other bore diameters.

DRDA-B/Double type

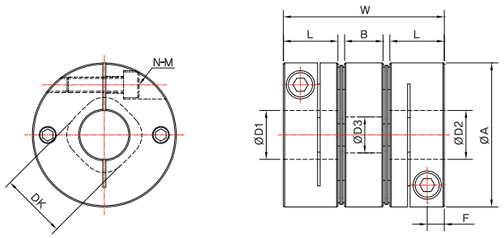
A type : Combination of Low inertia hubs



B type : Combination of Low inertia hub and Straight hub



C type : Combination of Straight hubs



Order method (Example)

DRDA-44	B	Ø10	Ø12
Coupling-Size	Double type	Bore : D1	Bore : D2

* Supported Shaft Tolerance/h7(h6, g6)

Dimensions

unit (mm)

Product No.	Type	D1 Min.	D1 Max.	D2 Min.	D2 Max.	A	C	W	L	B	F	D3	DK	N-M	Tightening torque N·m
DRDA- 44B	A	8	15	8	15	44	29.6	48	15.4	10.8	4.65	20	19.5	2-M4	3.4~4.1
	B	8	15	Over 15	24		29.6								
	C	Over 15	19	Over 15	24		-								
DRDA- 56B	A	8	19	8	19	56	38	59.8	20.4	13.8	6.25	26	26	2-M5	7.0~8.5
	B	8	19	Over 19	30		38								
	C	Over 19	25	Over 19	30		-								
DRDA- 63B	C	10	30	10	30	63	-	68.7	24	15.5	7.75	31	31	2-M6	14~15
DRDA- 68B	A	11	24	11	24	68	46	73.3	25.2	16.5	8	31	31	2-M6	14~15
	B	11	24	Over 24	35		46								
	C	Over 24	30	Over 24	35		-								
DRDA- 82B	C	18	35	18	40	82	-	98	30	22	9	40	38	2-M8	27~30
DRDA- 94B	C	25	40	25	45	94	-	98.6	30	22	9	47	42	2-M8	27~30
DRDA-104B	C	32	45	32	45	104	-	101.6	30	22	9	50	48	2-M8	27~30

* For Information on Other tolerances, Contact DURI.

Specifications

Product No.	Type	Rated Torque N·m	Misalignment Parallel (mm)	Misalignment Angular (°)	Misalignment Axial (mm)	Max. Speed min^{-1}	Torsional Stiffness N·m/rad	Axial Stiffness N/mm	Moment of Inertia $kg·m^2$	Mass kg
DRDA- 44B	A	12	0.24	1 (On one side)	±0.6	10,000	10,000	40	29.98×10^{-6}	0.124
	B								35.82×10^{-6}	0.131
	C								42.52×10^{-6}	0.146
DRDA- 56B	A	25	0.28	1 (On one side)	±0.8	10,000	16,000	24	98.34×10^{-6}	0.25
	B								118.9×10^{-6}	0.268
	C								141.7×10^{-6}	0.298
DRDA- 63B	C	40	0.31	1 (On one side)	±0.84	10,000	25,000	21.5	261.3×10^{-6}	0.459
DRDA- 68B	A	60	0.34	1 (On one side)	±0.9	10,000	35,000	38.2	256.6×10^{-6}	0.447
	B								315.7×10^{-6}	0.489
	C								379.3×10^{-6}	0.549
DRDA- 82B	C	100	0.52	1 (On one side)	±1.10	10,000	70,000	64	1039×10^{-6}	1.037
DRDA- 94B	C	180	0.52	1 (On one side)	±1.30	10,000	50,000	54	1798×10^{-6}	1.369
DRDA-104B	C	250	0.55	1 (On one side)	±1.48	10,000	60,000	55.5	2754×10^{-6}	1.739

* Depending on the bore diameter, rated torque of the couplings may be limited. Consult "Standard Bore Diameters."
* Max. Speed does not take into account dynamic balance.
* Torsional stiffness values given are measured values for the disk alone.
* The moment of inertia and mass are measured for the maximum bore diameter.

Standard Bore Diameter

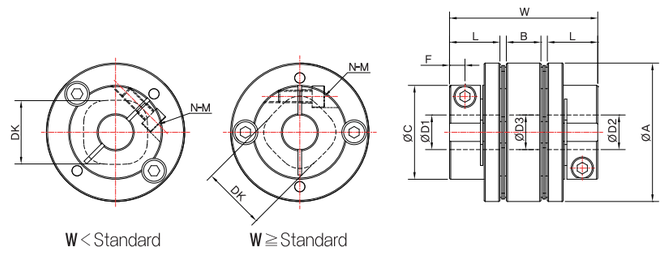
Product No.	Standard bore diameter D1, D2 (mm)																							
	8	9	9.525	10	11	12	13	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45
DRDA- 44B	9	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○									
DRDA- 56B	18	20	22	22	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○						
DRDA- 63B				31	34	36	38	●	●	●	●	●	●	●	●	●	●	●	●						
DRDA- 68B					50	51	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○				
DRDA- 82B												●	●	●	●	●	●	●	●	●	●	○	○		
DRDA- 94B																	●	●	●	●	●	●	●	○	○
DRDA-104B																				226	●	●	●	●	●

* The Machining tolerance for paired mounting shafts is h7(h6 or g6) class.
* Bore diameters marked with ●, ○ or numbers are supported as the standard bore diameters.
* Bore diameters marked with ○ have restrictions on the Inner diameter of the Disk, so axis penetration is impossible.
* Bore diameters whose fields contain numbers are restricted in their rated torque by the holding power of the shaft connection component because the bore diameter is small. The numbers indicate the rated torque [N·m]
* Please contact us regarding special arrangements for Other bore diameters.

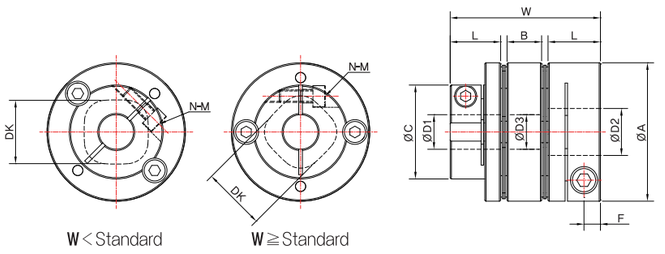
DRDA-BSP/Double type that can change the length

It is type that can cope with the distance between shafts by changing plate length in DRDA-B type.
Please specify the length in 1㎜ units to suit your needs.

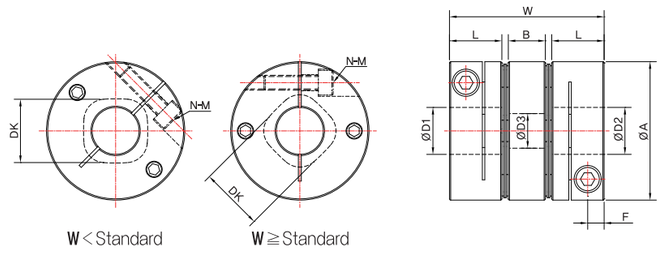
A type : Combination of Low inertia hubs



B type : Combination of Low inertia hub and Straight hub



C type : Combination of Straight hubs



Order method (Example)

DRDA-44	BSP	Ø10	Ø12	W65
Coupling-Size	Double type	Bore : D1	Bore : D2	Length specified

* Supported Shaft Tolerance/h7(h6, g6)

Dimensions

unit (mm)

Product No.	Type	D1 Min.	D1 Max.	D2 Min.	D2 Max.	A	C	W Std.	W Min.	W Max.	L	F	D3	DK	N-M	Tightening torque N·m
DRDA-44B	A	8	15	8	15	44	29.6	48	43	65	15.4	4.65	20	19.5	2-M4	3.4~4.1
	B	8	15	Over 15	24		29.6									
	C	Over 15	19	Over 15	24		-									
DRDA-56B	A	8	19	8	19	56	38	59.8	53	80	20.4	6.25	26	26	2-M5	7.0~8.5
	B	8	19	Over 19	30		38									
	C	Over 19	25	Over 19	30		-									
DRDA-63B	C	10	30	10	30	63	-	68.7	60	85	24	7.75	31	31	2-M6	14~15
DRDA-68B	A	11	24	11	24	68	46	73.3	65	90	25.2	8	31	31	2-M6	14~15
	B	11	24	Over 24	35		46									
	C	Over 24	30	Over 24	35		-									

* For information on other tolerances, Contact DURI.
* Standard compatible lengths W Range from the minimum W Dimension shown in the above table to the maximum. Specify the length in 1mm units.
* When the W dimension is shorter than the standard, The left/right clamping bolt phases will be off by 45°

Specifications

Product No.	Type	Rated torque N·m	Misalignment Parallel (mm) Min. W	Misalignment Parallel (mm) Max. W	Misalignment Angular °	Misalignment Axial mm	Max. Speed min⁻¹	Moment of Inertia (kg·m²) Min. W	Moment of Inertia (kg·m²) Max. W	Mass (kg) Min. W	Mass (kg) Max. W
DRDA-44B	A	12	0.15	0.54	1 (On one side)	±0.6	10,000	25.06×10^{-6}	44.76×10^{-6}	0.107	0.174
	B							30.89×10^{-6}	50.62×10^{-6}	0.116	0.182
	C							37.58×10^{-6}	57.31×10^{-6}	0.130	0.197
DRDA-56B	A	25	0.16	0.63	1 (On one side)	±0.8	10,000	77.42×10^{-6}	144.03×10^{-6}	0.205	0.347
	B							97.97×10^{-6}	164.08×10^{-6}	0.225	0.365
	C							120.08×10^{-6}	187.06×10^{-6}	0.252	0.394
DRDA-63B	C	40	0.16	0.60	1 (On one side)	±0.84	10,000	226.08×10^{-6}	325.00×10^{-6}	0.378	0.538
DRDA-68B	A	60	0.19	0.63	1 (On one side)	±0.9	10,000	210.08×10^{-6}	340.01×10^{-6}	0.382	0.567
	B							269.09×10^{-6}	399.02×10^{-6}	0.424	0.609
	C							333.05×10^{-6}	462.08×10^{-6}	0.484	0.669

* Depending on the bore diameter, Rated torque of the couplings may be limited. Consult "Standard Bore Diameters."
* Max. Speed does not take into account dynamic balance.
* The moment of inertia and mass are measured for the maximum bore diameter.
* Torsional stiffness values check P.11.

Standard Bore Diameter

Product No.	Standard bore diameter D1, D2(mm) 8	9	9.525	10	11	12	13	14	15	16	17	18	19	20	22	24	25	28	30	32	35
DRDA- 44B	9	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○					
DRDA- 56B	18	20	22	22	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○		
DRDA- 63B				31	34	36	38	●	●	●	●	●	●	●	●	●	●	●	●		
DRDA- 68B					50	51	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○

* The Machining tolerance for paired mounting shafts is h7(h6 or g6) class.
* Bore diameters marked with ●, ○ or numbers are supported as the standard bore diameters.
* Bore diameters marked with ○ have restrictions on the Inner diameter of the Disk, so axis penetration is impossible.
* Bore diameters whose fields contain numbers are restricted in their rated torque by the holding power of the shaft connection component because the bore diameter is small. The numbers indicate the rated torque [N·m]
* Please contact us regarding special arrangements for Other bore diameters.

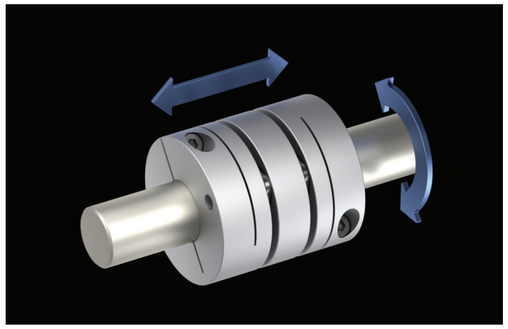
Precautions When Using

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.

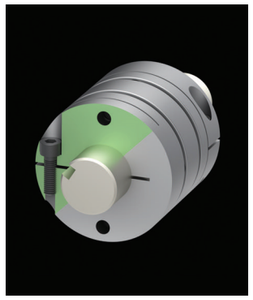
(1) Operating environment Temperature range is -30℃ ~ +100℃. Although water resistance and oil resistance are available, use at extreme temperatures is a factor of deformation.
(2) Since the disk is made of thin stainless steel plate, handle it carefully to avoid injury.
(3) Do not tighten the clamp bolt before inserting the used Shaft.
(4) Be careful of parallel, angular, and axial misalignment.

Mounting

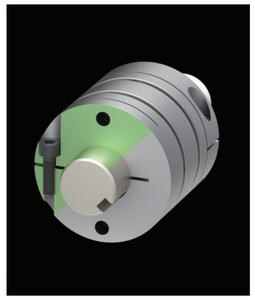
(1) Check that the clamping bolt is loosened and remove foreign matter, oil, etc. from the shaft and coupling inner surface. (Please clean the oil component using oil remover and use it.)
(2) When inserting the coupling to the shaft, do not apply excessive force such as compression or tensile to the disk laminates.
Especially when the coupling is inserted on the motor side and then the coupling is inserted on the mating shaft, an excessive compressive force is applied Please note that.
(3) With the clamping bolt loosened, check that the coupling smoothly moves in the axial and rotational directions.
If it does not move smoothly, readjust the centering of the two axes.
This method is recommended as a simple confirmation method of the left and right concentricity.
However, Please check the degree of assembly by other methods. *(Figure 1)*
(4) The relative use axis is a circular axis in principle, but if a key axis other than a circular axis is inevitably used, Please be careful.



▲ *(Figure 1)*



▲ Bad Mounting *(Figure 2)*



▲ Right Mounting *(Figure 3)*

Depending on the mounting position of the shaft, the coupling body may be damaged and the shaft gripping force may be lowered.
To meet the coupling performance, we recommend using it on a circular shaft. *(Figure 2, 3)*
(5) The length at which the shaft is inserted into the coupling is the hub length of the coupling(L dimension). Also do not interfere with the disks, plate and other shaft.
(6) Check the operation of the force such as compression or tension in the axial direction and tighten the clamping bolt.
When tightening the clamp bolt, use a calibrated torque wrench to tighten within the specified torque range.
Therefore, calculate the allowable eccentricity value by the following formula, and adjust it so that it becomes less than the value.

Checked for Design verification

Length specified Order Parts

In the DRDA-BSP type, you can specify the full length to suit your needs.
Therefore, calculate the allowable eccentricity value by the following formula, and adjust it so that it becomes less than the value.

$\varepsilon = \tan\theta \times LG$ ε : Allowable parallel misalignment [㎜]
θ : Allowable angular deflection [°]
$LG = LP + S$ LP : Length of Plate
S : Gap size between hub and Plate

The keyway machining

The keyway machining are available upon request. However, basically, because 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.

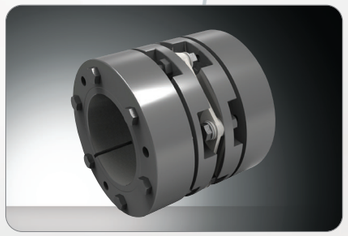
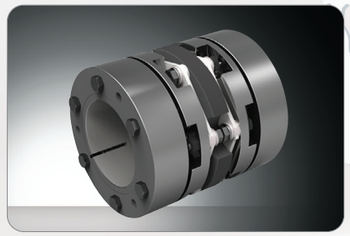
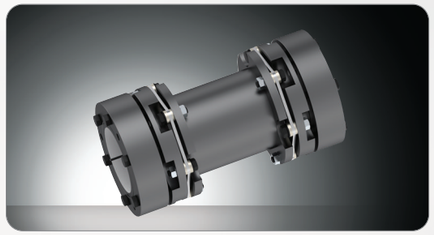
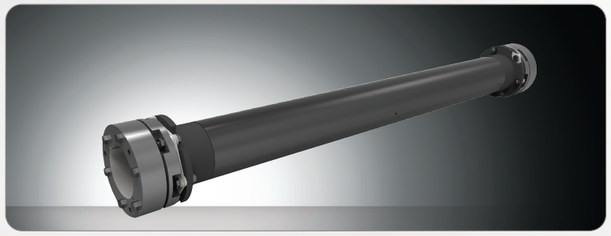
Points to Consider Regarding the ball Screw System

When the total torsional frequency of the ball screw system is 400 to 500 Hz or less, depending on the gain adjustment of the servomotor.
The oscillation of the servo motor may occur.
The oscillation of the servomotor is mainly caused by the natural frequency of the whole ball screw system and the problem of the electric control system.
This problem is caused by adjusting the whole system such as torsional rigidity and inertia of coupling and feed screw, and by increasing the torsional natural frequencies of the mechanical system by the review in the design stage or by adjusting the electrical control tuning function(filter function) of the servo motor You have to adjust and avoid.

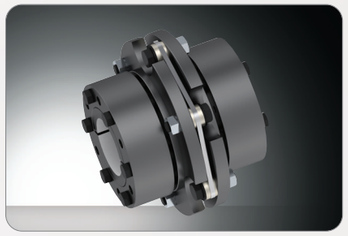
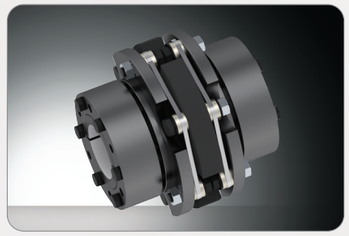
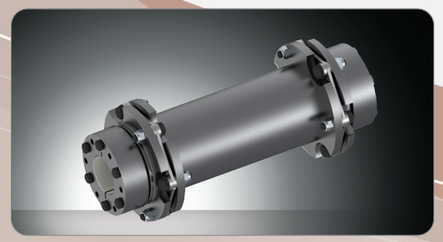
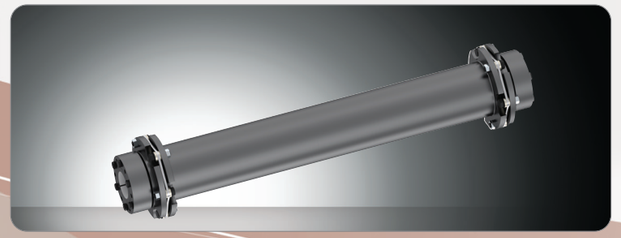
Innovative Performance Advanced Technology of DURI

Highly rigid steel disk coupling for machine tools.
High delivery torque and reliability.
It has high torsional rigidity and flexible function.
Strong against impact and temperature.
High precision assembly is possible.
Zero backlash.

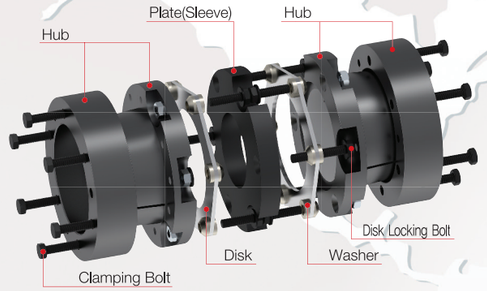
DHDS Series

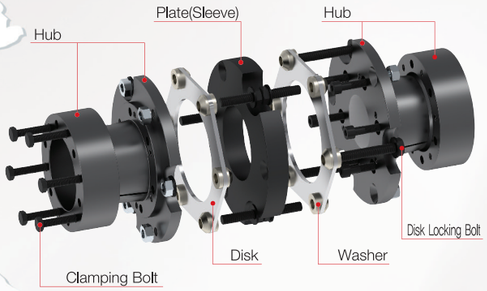





DHDS Series

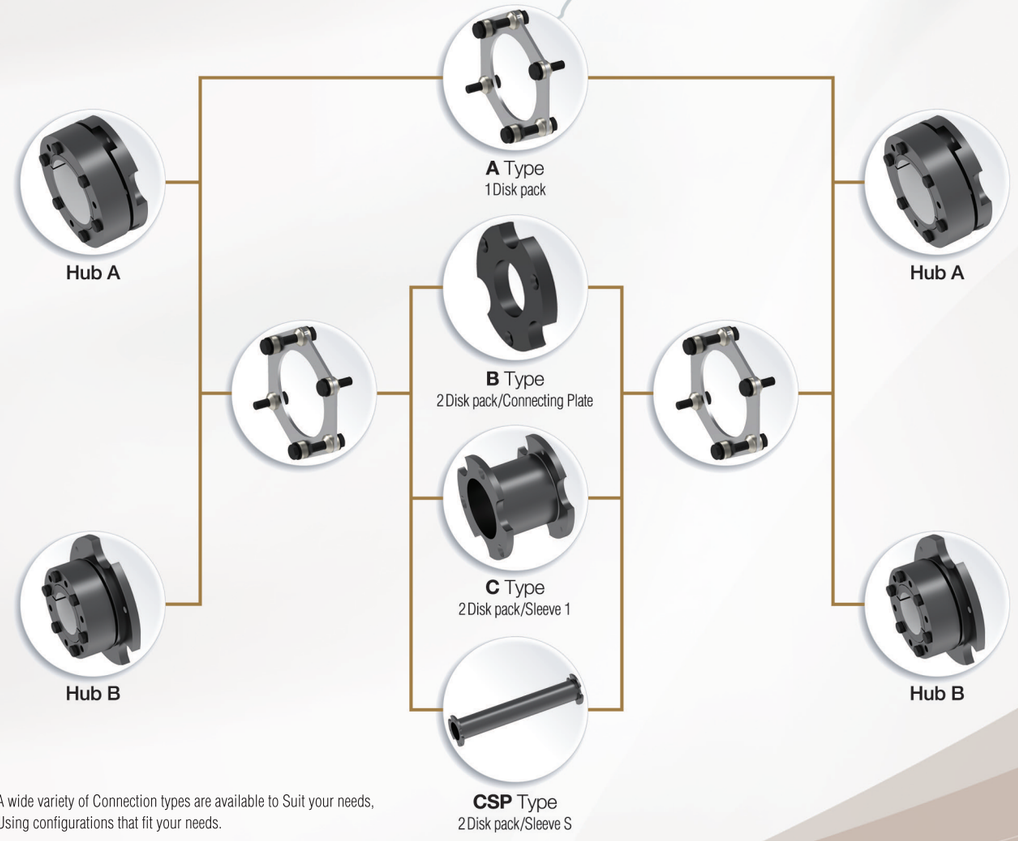
STRUCTURE





COUPLING COMBINATION SYSTEM

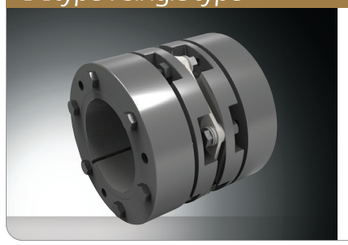
Hub type	Disk Pack	Connection type	Disk Pack	Hub type

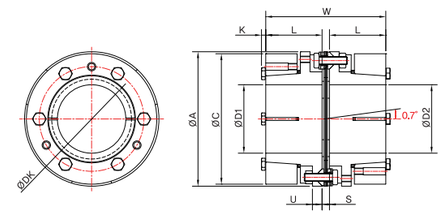


* A wide variety of Connection types are available to Suit your needs, Using configurations that fit your needs.

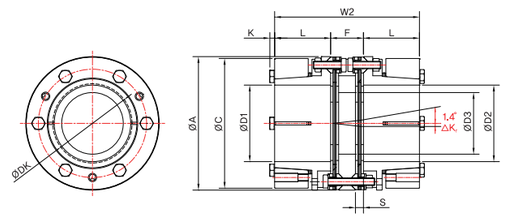
DHDS A Hub type

A type : Single type

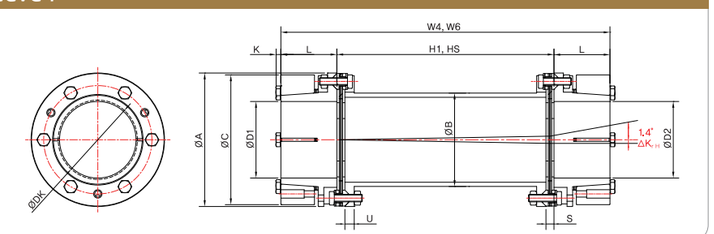




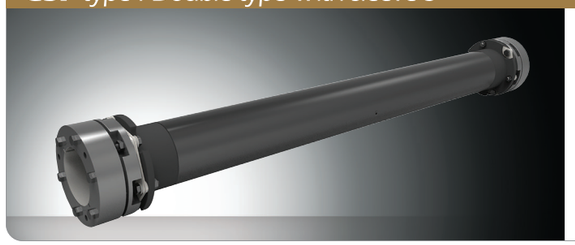
B type : Double type With Connecting plate



C type : Double type With sleeve 1



CSP type : Double type With sleeve S



CSP Type
Corresponds to the required Inter-Axis distance by Changing the length of Sleeve S.

Order method (Example)

DHDS-143	A/B/C/CSP	ø80A	ø80A	W1400*)
Coupling-Size	Type	Bore : D1/Hub type	Bore : D2/Hub type	Length-Specified

*Standard H7, Other Tolerances Possible. *CSP type Only.

Dimensions

unit (mm)

Product No.	D1[1] Min.	D2[1] Max.	D3	A	C	B	K	S	U	F	DK	L	H1	HS	W	W2	W4	W6
DHDS- 77	25	45	33	77	77	50	3.5	4.6	7	21.2	45	40	65	Customer Specifications	84.6	101.2	145	Dependent on HS
DHDS- 89	32	52	41	89	82	60	3.5	5	7	22	55	45	75.6		95	112	165.6	
DHDS-104	40	60	46	104	100	70	3.5	6.1	8	26.2	65	50	91.4		106.1	126.2	191.4	
DHDS-123	45	70	51	123	115	80	4	8	10	34	74	55	112.8		118	144	222.8	
DHDS-143	55	90	66	143	143	100	5.5	8.6	10	35.2	88	60	133.2		128.6	155.2	253.2	
DHDS-167	65	100	76	167	162	110	5.5	9.2	12	40.4	103	70	135.2		149.2	180.4	275.2	

Specifications

Product No.	Rated Torque[2]	Max. Torque[3]	Max. Speed[4]	Permitted Misalignments[5]				Spring Stiffness		
				Axial[6][7]	Radial[6]			Torsion[11]		Angular Spring Stiffness[8]
					With Connecting Plate	With Sleeve 1	With Sleeve S	Disk Pack	Tube Sleeve S	
	T_{KN}	T_{KS}	n_{max}	$\triangle K_a$	$\triangle K_r$	$\triangle K_{rH}$	$\triangle K_{rH}$	$C_{T\,LP}$	$C_{T\,H\,rel}$	
	N·m	N·m	rpm	mm	mm	mm	mm	10^3 N·m/rad	10^6 N·m mm/rad	N·m/rad
DHDS- 77	300	450	13,600	0.8	0.2	0.7	(HS-S)×0.0122	180	19	285
DHDS- 89	420	630	11,800	0.9	0.2	0.8		290	34	305
DHDS-104	650	975	10,100	1.1	0.25	1		320	71	875
DHDS-123	1,100	1,650	8,500	1.3	0.3	1.25		1,350	108	1,285
DHDS-143	1,600	2,400	7,300	1.5	0.3	1.45		1,900	217	2,025
DHDS-167	2,600	3,900	6,200	1.7	0.35	1.5		2,950	415	3,260

Moment of Inertia and Mass

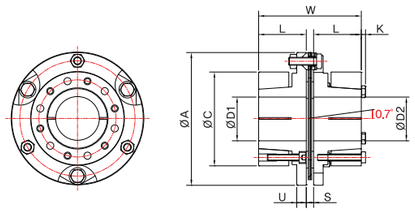
Product No.	Moments of Inertia						Mass					
	Disk Pack[9]	Hub[10]	Connecting Plate	Sleeve 1	Sleeve S with HS=1000mm	Sleeve S per1000mm Tube	Disk Pack[9]	Hub[10]	Connecting Plate	Sleeve 1	Sleeve S with HS=1000mm	Sleeve S per1000mm Tube
	$10^{-3}kgm^2$	$10^{-3}kgm^2$	$10^{-3}kgm^2$	$10^{-3}kgm^2$	$10^{-3}kgm^2$	$10^{-3}kgm^2$	kg	kg	kg	kg	kg	kg
DHDS- 77	0.08	0.78	0.23	0.32	2.11	1.93	0.08	0.79	0.31	0.39	3.63	3.48
DHDS- 89	0.13	1.23	0.44	0.61	3.77	3.43	0.09	1.02	0.43	0.54	4.42	4.22
DHDS-104	0.30	2.88	0.95	1.38	7.81	7.12	0.16	1.71	0.68	0.93	6.82	6.51
DHDS-123	0.81	5.81	2.3	3.02	12.62	10.86	0.32	2.53	1.19	1.46	8.09	7.50
DHDS-143	1.36	13.77	4.6	6.1	24.98	21.86	0.39	3.92	1.96	2.04	10.22	9.47
DHDS-167	3.43	27.35	9.72	12.96	49.43	41.61	0.71	6.08	2.96	3.38	16.83	15.34

1) Transmittable torques dependent on bore. See p22.
2) Valid for changing Idirection as well as for max. permitted shaft misalignment.
3) Valid for unchanging load direction, max. load cycles $\leq 10^5$.
4) Not valid for coupling with sleeve S.
5) The permitted misalignments may not simultaneously reach their maximum values.
6) The values refer to couplings with 2 disk packs.
7) Only permitted as a static or virtually static value.
8) The values refer to 1 disk pack.
9) Moments of inertia and Mass are valid for 1 disk pack.
10) Moments of inertia and Mass are valid for max bore.
11) The $C_{T\,tot.}$-Value of a Double type Coupling can be roughly calculated as follows. $C_{T\,tot.} = \dfrac{1}{\dfrac{2}{C_{T\,LP}} + \dfrac{HS[mm] - 2\,S[mm]}{C_{T\,H\,rel.}}}$

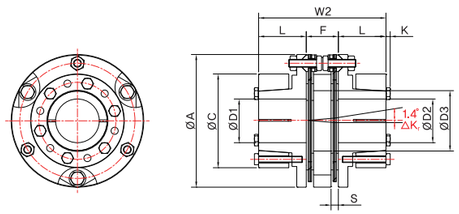
DHDS B Hub type

*It is available to fasten to inside and outside the hub.

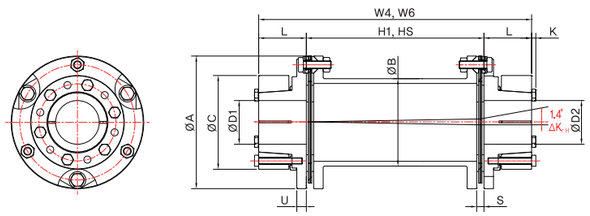
A type : Single type



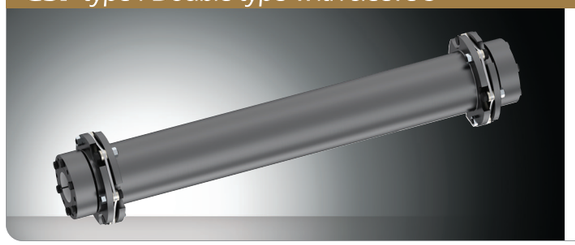
B type : Double type With Connecting plate



C type : Double type With sleeve 1



CSP type : Double type With sleeve S



CSP Type
Corresponds to the required Inter-Axis distance by Changing the length of Sleeve S.

Order method (Example)

DHDS-143	A/B/C/CSP	ø50B	ø50B	W1400*)
Coupling-Size	Type	Bore : D1/Hub type	Bore : D2/Hub type	Length-Specified

*Standard H7, Other Tolerances Possible. *CSP type Only.

Dimensions

unit (mm)

Product No.	D1[1] Min.	D2[1] Max.	A	D3	C	B	K	S	U	F	L	H1	HS	W	W2	W4	W6
DHDS- 77	14	26	77	33	53	50	3.5	4.6	7	21.2	35	65		74.6	91.2	135	
DHDS- 89	20	36	89	41	64	60	3.5	5	7	22	40	75.6		85	102	155.6	
DHDS-104	25	45	104	46	74	70	3.5	6.1	8	26.2	45	91.4	Customer Specifications	96.1	116.2	181.4	Dependent on HS
DHDS-123	30	45	123	51	84	80	4	8	10	34	50	112.8		108	134	212.8	
DHDS-143	35	55	143	66	104	100	5.5	8.6	10	35.2	55	133.2		118.6	145.2	243.2	
DHDS-167	40	65	167	76	118	110	5.5	9.2	12	40.4	60	135.2		129.2	160.4	255.2	

Specifications

Product No.	Rated Torque[2]	Max. Torque[3]	Max. Speed[4]	Permitted Misalignments[5] Axial[6][7]	Radial[6] With Connecting Plate	Radial[6] With Sleeve 1	Radial[6] With Sleeve S	Spring Stiffness Torsion[11] Disk Pack	Torsion[11] Tube Sleeve S	Angular Spring Stiffness[8]
	T_{KN}	T_{KS}	n_{max}	$\triangle K_a$	$\triangle K_r$	$\triangle K_{r\,H}$	$\triangle K_{r\,H}$	$C_{T\,LP}$	$C_{T\,H\,rel}$	
	N·m	N·m	rpm	mm	mm	mm	mm	10^3 N·m/rad	10^6 N·m mm/rad	N·m/rad
DHDS- 77	300	450	13,600	0.8	0.2	0.7		180	19	285
DHDS- 89	420	630	11,800	0.9	0.2	0.8		290	34	305
DHDS-104	650	975	10,100	1.1	0.25	1	(HS-S)×0.0122	320	71	875
DHDS-123	1,100	1,650	8,500	1.3	0.3	1.25		1,350	108	1,285
DHDS-143	1,600	2,400	7,300	1.5	0.3	1.45		1,900	217	2,025
DHDS-167	2,600	3,900	6,200	1.7	0.35	1.5		2,950	415	3,260

Moment of Inertia and Mass

Product No.	Moments of Inertia Disk Pack[9]	Hub[10]	Connecting Plate	Sleeve 1	Sleeve S with HS=1000mm	Sleeve S per1000mm Tube	Mass Disk Pack[9]	Hub[10]	Connecting Plate	Sleeve 1	Sleeve S with HS=1000mm	Sleeve S per1000mm Tube
	$10^{-3}kgm^2$	$10^{-3}kgm^2$	$10^{-3}kgm^2$	$10^{-3}kgm^2$	$10^{-3}kgm^2$	$10^{-3}kgm^2$	kg	kg	kg	kg	kg	kg
DHDS- 77	0.08	0.27	0.23	0.32	2.11	1.93	0.08	0.49	0.31	0.39	3.63	3.48
DHDS- 89	0.13	0.57	0.44	0.61	3.77	3.43	0.09	0.71	0.43	0.54	4.42	4.22
DHDS-104	0.30	1.15	0.95	1.38	7.81	7.12	0.16	1.03	0.68	0.93	6.82	6.51
DHDS-123	0.81	2.46	2.3	3.02	12.62	10.86	0.32	1.71	1.19	1.46	8.09	7.50
DHDS-143	1.36	5.59	4.6	6.1	24.98	21.86	0.39	2.73	1.96	2.04	10.22	9.47
DHDS-167	3.43	11.14	9.72	12.96	49.43	41.61	0.71	3.99	2.96	3.38	16.83	15.34

1) Transmittable torques dependent on bore. See p22.
2) Valid for changing Idirection as well as for max. permitted shaft misalignment.
3) Valid for unchanging load direction, max. load cycles $\leq 10^5$.
4) Not valid for coupling with sleeve S.
5) The permitted misalignments may not simultaneously reach their maximum values.
6) The values refer to couplings with 2 disk packs.
7) Only permitted as a static or virtually static value.
8) The values refer to 1 disk pack.
9) Moments of inertia and Mass are valid for 1 disk pack.
10) Moments of inertia and Mass are valid for max bore.
11) The $C_{T\,tot.}$-Value of a Double type Coupling can be roughly calculated as follows. $C_{T\,tot.} = \dfrac{1}{\dfrac{2}{C_{T\,LP}} + \dfrac{HS[mm] - 2\,S[mm]}{C_{T\,H\,rel.}}}$

DHDS Technical Data

Transmittable torque T_R [N·m] of Hub Bore

Hub type	Product No.	Size																				
		Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø52	Ø55	Ø60	Ø65	Ø70	Ø75	Ø80	Ø85	Ø90	Ø100
	DHDS- 77	339	404	448	492	558	620	659	694	738												
	DHDS- 89				526	602	679	730	780	851	913	948	978									
	DHDS-104							873	937	1036	1132	1195	1255	1338	1454							
	DHDS-123									1268	1394	1480	1565	1691	1890	2065	2204					
Frictionally-Locking Transmittable torques	DHDS-143													2074	2366	2658	2943	3213	3458	3666	3828	
Suitable for H7/g6	DHDS-167															3246	3618	3991	4353	4695	5007	5497

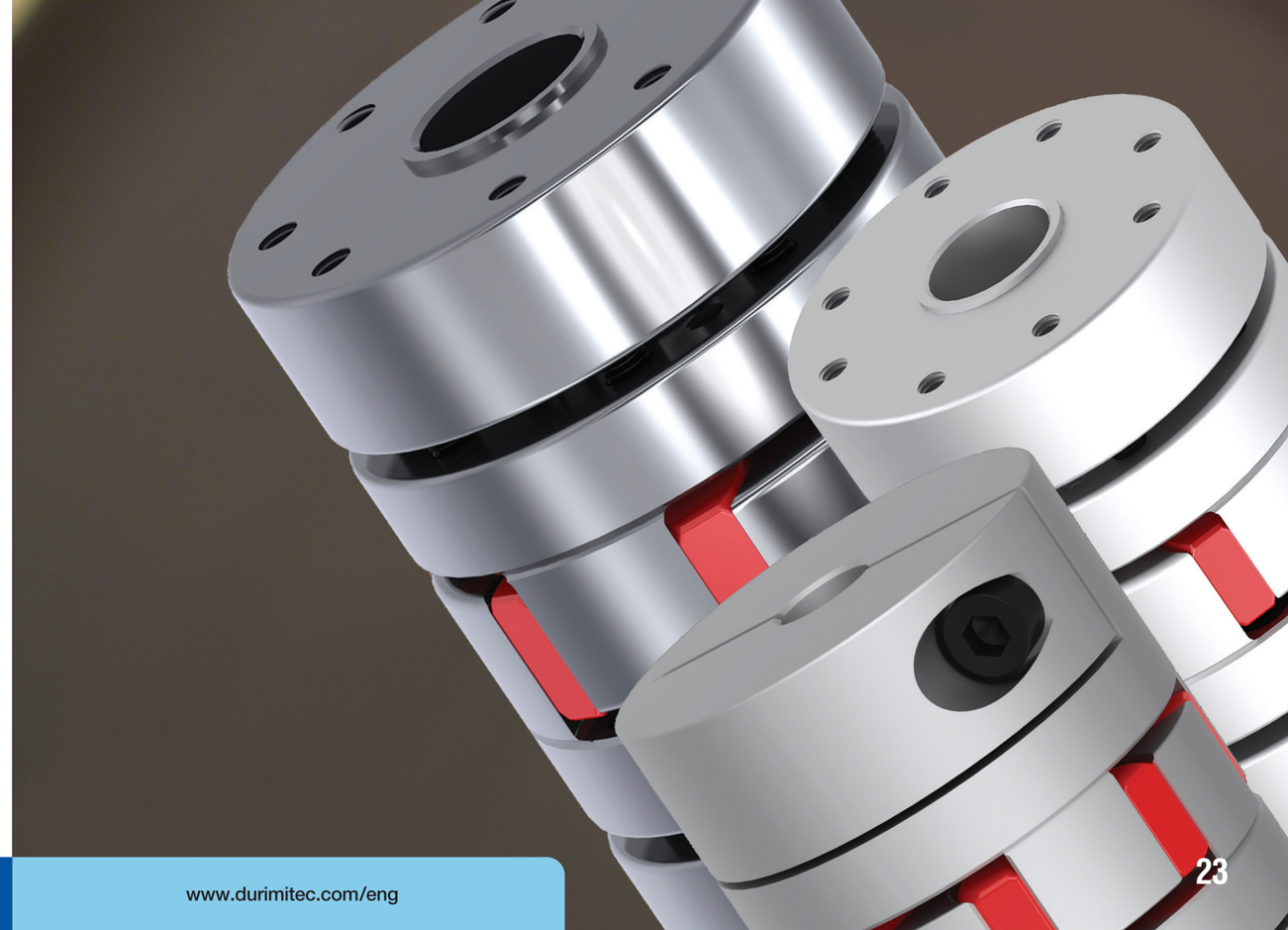
ATTENTION! Please observe permitted peak torque for selected coupling size and type

Hub type	Product No.	Size																
		Ø14	Ø16	Ø20	Ø22	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø50	Ø55	Ø60	Ø65
	DHDS- 77	158	186	240	369	312												
	DHDS- 89			283	320	375	428	468	509	568								
	DHDS-104					429	495	546	600	669	741	796	852	932				
	DHDS-123							704	769	863	960	1031	1104	1206				
Frictionally-Locking Transmittable torques	DHDS-143									1057	1176	1269	1366	1500	1692	1889		
Suitable for H7/g6	DHDS-167											1783	1919	2107	2400	2680	2967	3263

ATTENTION! Please observe permitted peak torque for selected coupling size and type

DJC/DJCS/DRJT Series

HIGH RIGIDITY JAW COUPLINGS FOR MACHINE TOOL



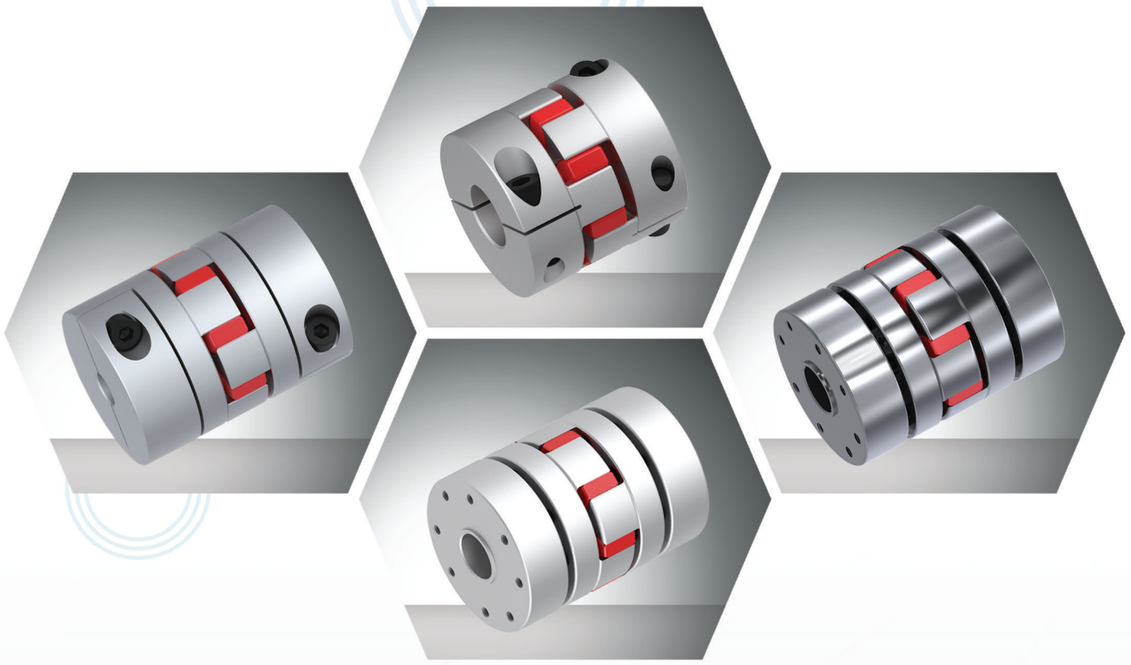
DJC/DJCS/DRJT Series

DURI High Rigidity Jaw Couplings for Machine Tool

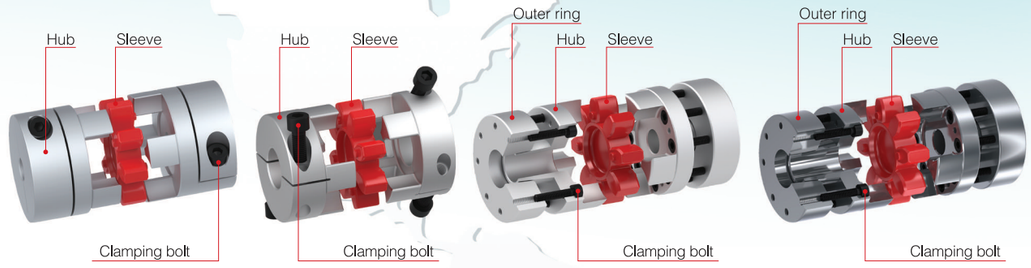
DURI HIGH RIGIDITY JAW COUPLINGS FOR MACHINE TOOL

Innovative Performance Advanced Technology of DURI

The Flexible coupling of jaw type.
A Highly stiffness jaw coupling for machine tool.
It is optimal for machine tool spindle and conveying axis.
High torque transmission coupling balancing is excellent. (DRJT)
The Material is aluminum alloy with high stiffness, so inertia moment is low.
The Inertia moment is low, it is ideal for high speed rotation.
The Vibration occurred by eccentricity or declination when rotation is absorbed by sleeve.
Backlash is zero.



STRUCTURE & MATERIAL



▲DJC ▲DJCS ▲DRJT-A ▲DRJT-S

DJC
Hub material : High-Strength aluminum alloy
Hub Surface treatment : Alumite
Clamping bolt material : SCM440
Sleeve material : Polyurethane

DJCS
Hub material : High-Strength aluminum alloy
Hub Surface treatment : Alumite
Clamping bolt material : SCM440
Sleeve material : Polyurethane

DRJT-A
Hub & Outer ring material : High-Strength aluminum alloy
Hub & Outer ring surface treatment : Alumite
Clamping bolt material : SCM440
Sleeve material : Polyurethane

DRJT-S
Hub & Outer ring material : High-Strength steel
Clamping bolt material : SCM440
Sleeve material : Polyurethane

SLEEVE

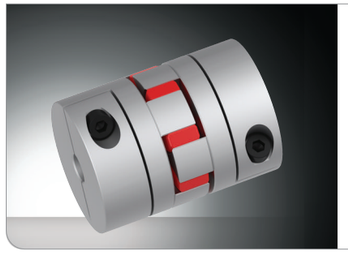
Sleeve Type	Standard type	Through type	Hardness (Shore)	Material	Operating Temperature (°C)	Features
RD			98-A	Polyurethane	-30~+90	High torque, High response
YL			92-A	Polyurethane	-30~+90	Balance type of flexibility and responsiveness
GR			64-D	Hytrel	-50~+120	High response, High load, Heat resistance

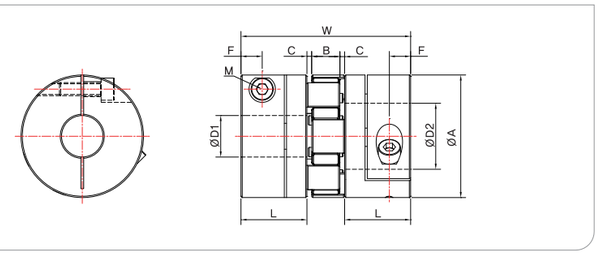
APPLICATION

Machine tool, Hydraulic equipment, Pumps, Fans, Conveyors, Packing machine.

Please use a Homepage is the Latest Data and CAD ☞ www.durimitec.com/eng

DJC(Aluminum)





Dimensions/Specifications

Product No.	Dimension(mm)								Clamping bolt		Sleeve type	Sleeve Torque		Max. Speed	Moment of Inertia	Torsional Stiffness	Misalignments			Mass
									Size	Torque		Rated Torque	Max. Torque				Parallel	Angular	Axial	
	D1(Min)	D2(Max)	A	L	W	B	C	F	M	N·m		N·m	N·m	min^{-1}	$kg·m^2$	N·m/rad	mm	°	mm	kg
DJC- 40CA	8	20	40	25	66	12	2	11.0	M6	10.5	RD	21	42	9,550	3.9×10^{-5}	1,512	0.06	0.9	$^{+1.2}_{-0.5}$	0.160
DJC- 55CA	10	28	55	30	78	14	2	10.5	M6	10.5	RD	60	120	6,950	1.6×10^{-4}	3,640	0.10	0.9	$^{+1.4}_{-0.5}$	0.330
DJC- 65CA	14	38	65	35	90	15	2.5	11.5	M8	25	RD	160	320	5,850	3.6×10^{-4}	6,410	0.11	0.9	$^{+1.5}_{-0.7}$	0.515
DJC- 80CA	15	45	80	45	114	18	3	15.5	M8	25	RD	325	650	4,750	1.1×10^{-3}	11,800	0.12	0.9	$^{+1.8}_{-0.7}$	1.050
DJC- 95CA	20	50	95	50	126	20	3	18	M10	49	RD	450	900	4,000	2.3×10^{-3}	21,594	0.14	0.9	$^{+2.0}_{-1.0}$	1.600
DJC-100CA	25	55	104	56	140	21	3.5	21	M12	86	RD	525	1,050	3,600	4.6×10^{-3}	25,759	0.16	0.9	$^{+2.1}_{-1.0}$	2.550

* Max. Speed does not take into account dynamic balance.
* The moment of Inertia and Mass are measured for the Maximum bore diameter.

Standard Bore Diameter

Product No.	Standard bore diameter D1, D2(mm)																					
	8	10	11	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55
DJC- 40CA	●	●	●	●	●	●	●	●	●														
DJC- 55CA		●	●	●	●	●	●	●	●	●	●	●	●										
DJC- 65CA				●	●	●	●	●	●	●	●	●	●	●	●	●	●						
DJC- 80CA					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
DJC- 95CA									●	●	●	●	●	●	●	●	●	●	●	●	●	●	
DJC-100CA												●	●	●	●	●	●	●	●	●	●	●	●

* Bore diameters marked with ● are Supported as the Standard bore diameters.
* Please contact us Regarding special arrangements for Other bore diameters.

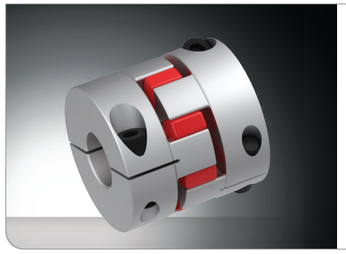
Order method(Example)

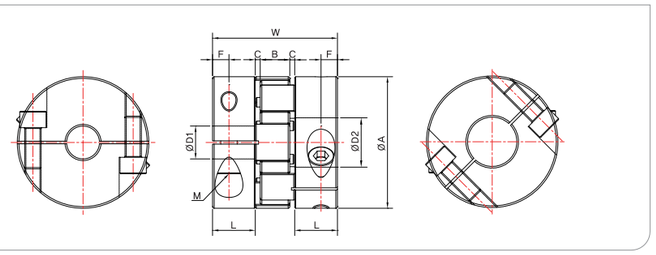
DJC-65	RD	CA	CA	Ø20	Ø25
Coupling-Size	Sleeve type	Hub type : D1 side	Hub type : D2 side	Bore : D1	Bore : D2

* Supported Shaft Tolerance/h7

DJCS(Aluminum)

* Jaw type coupling which the length is short





Dimensions/Specifications

Product No.	Dimension(mm)								Clamping bolt		Sleeve type	Sleeve Torque		Max. Speed	Moment of Inertia	Torsional Stiffness	Misalignments			Mass
									Size	Torque		Rated Torque	Max. Torque				Parallel	Angular	Axial	
	D1(Min)	D2(Max)	A	L	W	B	C	F	M	N·m		N·m	N·m	min^{-1}	$kg·m^2$	N·m/rad	mm	°	mm	kg
DJCS-55CD	10	32	55	18	54	14	2	7	M6	10	RD	60	120	10,400	1.3×10^{-4}	3,640	0.10	0.9	$^{+1.4}_{-0.5}$	0.280
DJCS-65CD	14	35	65	21	62	15	2.5	9	M8	25	RD	160	320	8,800	2.6×10^{-4}	6,410	0.11	0.9	$^{+1.5}_{-0.7}$	0.400
DJCS-80CD	15	45	80	26	76	18	3	10	M10	49	RD	325	650	7,150	7.04×10^{-4}	11,800	0.12	0.9	$^{+1.8}_{-0.7}$	0.680

* Max. Speed does not take into account dynamic balance.
* The moment of Inertia and Mass are measured for the Maximum bore diameter.

Standard Bore Diameter

Product No.	Standard bore diameter D1, D2(mm)																		
	10	11	12	14	15	16	18	19	20	24	25	28	30	32	35	38	40	42	45
DJCS-55CD	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
DJCS-65CD				●	●	●	●	●	●	●	●	●	●	●	●				
DJCS-80CD					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

* Bore diameters marked with ● are Supported as the Standard bore diameters.
* Please contact us Regarding special arrangements for Other bore diameters.

Order method(Example)

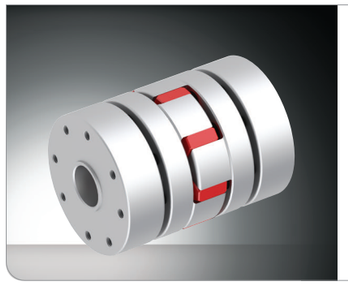
DJCS-55	RD	CD	CD	Ø20	Ø25
Coupling-Size	Sleeve type	Hub type : D1 side	Hub type : D2 side	Bore : D1	Bore : D2

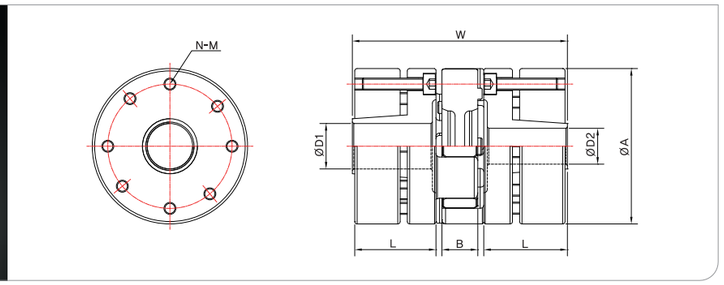
* Supported Shaft Tolerance/h7

DRJT-A (Aluminum)

DURI Jaw Taper-type Flexible Coupling

DRJT-A (Aluminum)





Dimensions/Specifications

Product No.	Dimension (mm)						Clamping bolt			Sleeve type	Sleeve Torque		Max. Speed	Moment of Inertia	Torsional Stiffness	Misalignments			Mass
							Size	Torque	Quantity		Rated Torque	Max. Torque				Parallel	Angular	Axial	
	D1(Min)	D2(Max)	A	L	W	B	M	N·m	N		N·m	N·m	min^{-1}	$kg·m^2$	N·m/rad	mm	°	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

* Max. Speed does not take into account dynamic balance.
* The moment of Inertia and Mass are measured for the Maximum bore diameter.

Standard Bore Diameter

Product No.	Standard bore diameter D1, D2(mm)																					
	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														●	●	●	●	●	●	●	●	●	●

* Bore diameters marked with ● are Supported as the Standard bore diameters.
* Please contact us Regarding special arrangements for Other bore diameters.

Order method (Example)

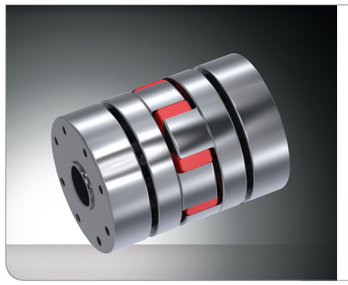
DRJT-65	A	RD	Ø20	Ø25
Coupling-Size	Material : Aluminum	Sleeve type	Bore : D1	Bore : D2

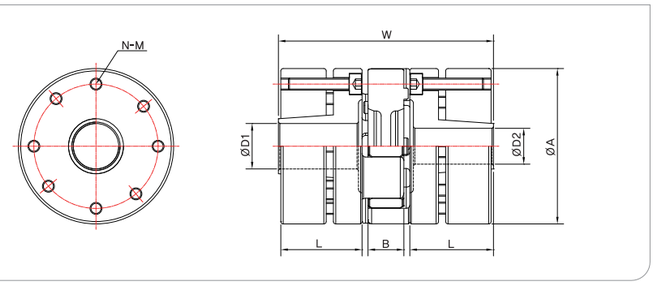
* Supported Shaft Tolerance/h7

DRJT-S (Steel)

DURI Jaw Taper-type Flexible Coupling

DRJT-S (Steel)





Dimensions/Specifications

Product No.	Dimension (mm)						Clamping bolt			Sleeve type	Sleeve Torque		Max. Speed	Moment of Inertia	Torsional Stiffness	Misalignments			Mass
							Size	Torque	Quantity		Rated Torque	Max. Torque				Parallel	Angular	Axial	
	D1(Min)	D2(Max)	A	L	W	B	M	N·m	N		N·m	N·m	min^{-1}	$kg·m^2$	N·m/rad	mm	°	mm	kg
DRJT- 40S	10	20	40	25	66	12	M4	4.1	6	RD	21	42	35,800	8.94×10^{-5}	1,512	0.06	0.9	$^{+1.2}_{-0.5}$	0.365
DRJT- 55S	14	28	55	30	78	14	M5	8.5	4	RD	60	120	26,000	3.89×10^{-4}	3,640	0.10	0.9	$^{+1.4}_{-0.5}$	0.518
DRJT- 65S	15	38	65	35	90	15	M5	8.5	8	RD	160	320	22,000	8.50×10^{-4}	6,410	0.11	0.9	$^{+1.5}_{-0.7}$	1.154
DRJT- 80S	20	45	80	45	114	18	M6	14	8	RD	325	650	17,900	2.62×10^{-3}	11,800	0.12	0.9	$^{+1.8}_{-0.7}$	2.500
DRJT- 95S	25	50	95	50	126	20	M8	35	4	RD	450	900	15,000	6.43×10^{-3}	21,594	0.14	0.9	$^{+2.0}_{-1.0}$	4.680
DRJT-100S	30	55	104	56	140	21	M10	69	4	RD	525	1,050	13,600	10.54×10^{-3}	25,759	0.16	0.9	$^{+2.1}_{-1.0}$	6.200

* Max. Speed does not take into account dynamic balance.
* The moment of Inertia and Mass are measured for the Maximum bore diameter.

Standard Bore Diameter

Product No.	Standard bore diameter D1, D2(mm)																					
	10	11	14	15	16	19	20	24	25	28	30	32	35	38	40	42	45	48	50	55		
DRJT- 40S	●	●	●	●	●	●	●															
DRJT- 55S			●	●	●	●	●	●	●	●												
DRJT- 65S				●	●	●	●	●	●	●	●	●	●	●								
DRJT- 80S							●	●	●	●	●	●	●	●	●	●	●					
DRJT- 95S									●	●	●	●	●	●	●	●	●	●	●			
DRJT-100S											●	●	●	●	●	●	●	●	●	●		

* Bore diameters marked with ● are Supported as the Standard bore diameters.
* Please contact us Regarding special arrangements for Other bore diameters.

Order method (Example)

DRJT-65	S	RD	Ø20	Ø25
Coupling-Size	Material : Steel	Sleeve type	Bore : D1	Bore : D2

* Supported Shaft Tolerance/h7

DJC/DJCS/DRJT Technical Data

Precautions When Using

DJC/DJCS/DRJT Couplings Be aware in their handling that their allowable values and points of caution are not the same.

(1) Although sleeves are designed to be oilproof, do not subject them to excessive amounts of oil as it may cause deterioration. Use and storage in direct sunlight may shorten Sleeve service life, so cover Sleeve appropriately.
(2) Do not tighten up clamping bolts until after inserting the mounting shaft.

Mounting

(1) Remove any rust, dust, oil or the like from the inner surfaces of the shaft and coupling.
Be particularly careful to degrease to fully remove any grease, oil, or the like that is molybdenum disulfide based or contains extremepressure additives that strongly affect coefficients of friction.
(2) Insert and mount the shaft far enough so that the paired mounting shafts touch the entire length of the clamping hub of the coupling (dimensions chart L), and does not interfere with the sleeves or the other shaft.
(3) To get full coupling performance, mount couplings so that differences between coupling centers during operation are within the misalignment shown in the specifications table.
However, this misalignment is the maximum value when each occurs independently, so make the allowable value when they combine 50% or less of this value.
(4) Check centering by holding a straight-edge to the outer circumference of the main body, using two points about 90° apart.
The centering precision has a major impact on the service life of the sleeve.
We recommend aligning the centering locations as the method for centering the two shafts.
(5) Clamping bolts to the tightening torques shown below using a calibrated torque wrench.
(6) Do not use clamping bolt other than those specified by DURI.

DRJT Balancing test

unit(mg)

Product No.	Result
DRJT-65ARD_28×28	163

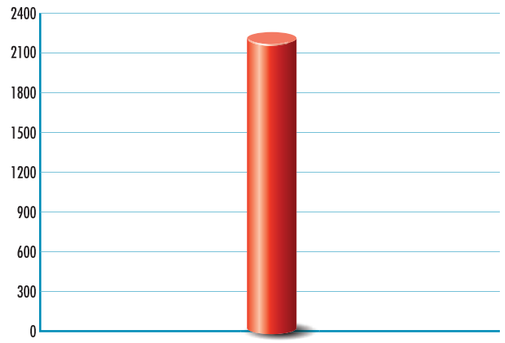
*Measuring instrument : Balancing measuring instrument held by us.

DJC Balancing test

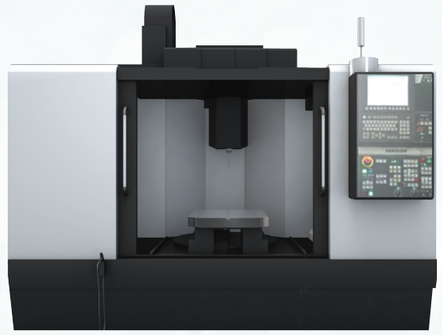
unit(mg)

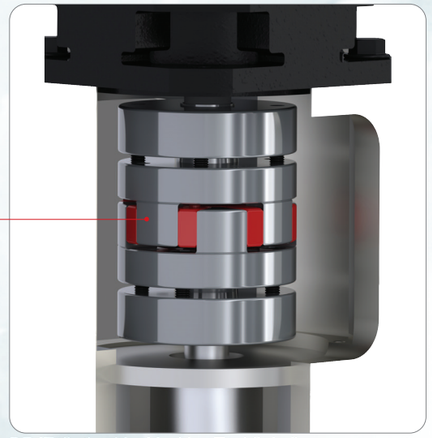
Product No.	Result
DJC-65RD_CA×CA_28×28	2197

*Measuring instrument : Balancing measuring instrument held by us.

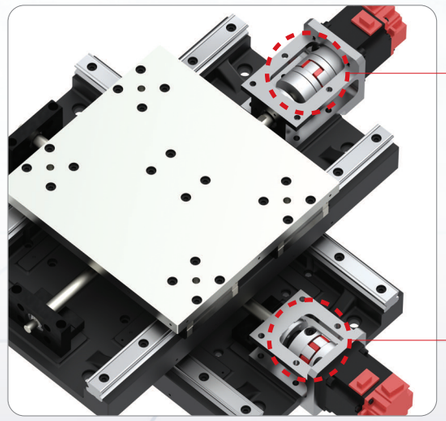


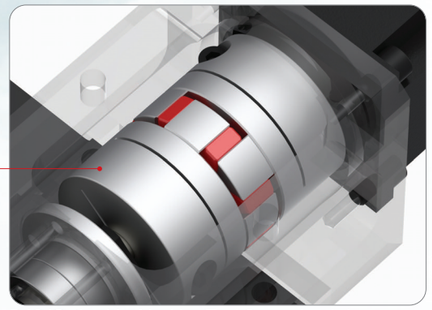
APPLICATION
High Rigidity Jaw Couplings for Machine Tool



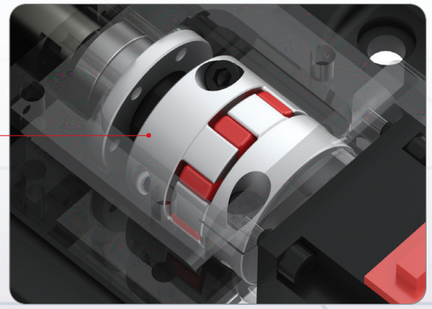


DRJT/Optimal for Machine Tool Spindle





DJC/Optimal for Machine Tool Conveying Axis



DJCS/Optimal for Machine Tool Conveying Axis