Coupling Catalogue

Diaphragm type

Single diaphragm clamping type (high-strength aluminum alloy)	Double diaphragm clamping type (high-strength aluminum alloy)	Single diaphragm top wire type (high-strength aluminum alloy)	Double diaphragm top wire type (high-strength aluminum alloy)
			
DMP-C P17	SMP-C P18	HDMP-G P23	HSMP-G P24
Single diaphragm clamping type (high-strength aluminum alloy)	Double diaphragm clamping type (high-strength aluminum alloy)	Single diaphragm expansion type (carbon steel) (stainless steel)	Double diaphragm expansion type (carbon steel) (stainless steel)
			
HDMP-C P29	HSMP-C P30	HDMPS-T P35	HSMPS-T P36
Single diaphragm top wire type (high-strength aluminum alloy)	Double diaphragm top wire type (high-strength aluminum alloy)	Single diaphragm top wire type (carbon steel) (stainless steel)	Double diaphragm top wire type (carbon steel) (stainless steel)
			
DMPA-G P41	SMPA-G P42	DMPS-G P47	SMPS-G P48
Single diaphragm clamping type (high-strength aluminum alloy)	Double diaphragm clamping type (high-strength aluminum alloy)	Single diaphragm clamping type (carbon steel) (stainless steel)	Double diaphragm clamping type (carbon steel) (stainless steel)
			
DMPA-C P53	SMPA-C P54	DMPS-C P59	SMPS-C P60
Single diaphragm expansion type (high-strength aluminum alloy)	Double diaphragm expansion type (high-strength aluminum alloy)	Single diaphragm expansion type (carbon steel) (stainless steel)	Double diaphragm expansion type (carbon steel) (stainless steel)
			
DMP-T P67	SMP-T P69	DMPS-T P73	SMPS-T P75
Single diaphragm top wire type (carbon steel) (stainless steel)	Double diaphragm top wire type (carbon steel) (stainless steel)	Single diaphragm expansion type (carbon steel) (stainless steel)	Double diaphragm expansion type (carbon steel) (stainless steel)
			
HDJM-G P77	HSJM-G P78	HDJM-T P81	HSJM-T P82
Single diaphragm top wire type+ Clamping mechanism(aluminum)	Double diaphragm top wire type+ Clamping mechanism(aluminum)	Single diaphragm top wire type+ Clamping mechanism(steel)	Double diaphragm top wire type+ Clamping mechanism(steel)
			
DMPA-GC P85	SMPA-GC P86	DMPS-GC P91	SMPS-GC P92

Single diaphragm top wire type+ expansion type(aluminum)	Double diaphragm top wire type+ expansion type(aluminum)	Single diaphragm top wire type+expansion type(steel)	Double diaphragm top wire type+expansion type(steel)
			
DMPA-GT P97	SMPA-GT P98	DMPS-GT P103	SMPS-GT P104
Single diaphragm clamping type+ expansion type(aluminum)	Double diaphragm clamping type+ expansion type(aluminum)	Single diaphragm clamping type+expansion type(steel)	Double diaphragm top wire type+ Clamping mechanism(steel)
			
DMPA-CT P109	SMPA-CT P110	DMPS-CT P115	SMPS-CT P116
Long-shaft expansion clamp type (steel tube)	Long-shaft expansion clamp type (carbon fiber composite tube)		
			
HSCM-T P121	CFRP-T P122		

Integrated high precision type

Clamping type (high-strength aluminum alloy)	Clamping type (short & small) (high-strength aluminum alloy)	Clamping type (small) (high-strength aluminum alloy)	Expansion type (high-strength aluminum alloy)
			
ZS-C P129	ZSD-C P129	ZSMP-C P131	ZS-T P132

Plum flower type

Top wire type(high-strength aluminum alloy)(carbon steel)	Clamping type(high-strength aluminum alloy)(carbon steel)	Clamping type (short & small) (high-strength aluminum alloy)	Clamping + internal expansion type (high-strength aluminum alloy)(carbon steel)
			
MH-G P141	MH-C P139	MHD-C P140	MH-CT P151
Internal expansion + internal expansion(carbon steel)	Expansion sleeve type (high-strength aluminum alloy)	Expansion sleeve type (carbon steel)	Expansion type(for spindle applications)(carbon steel)
			
MH-TT P153	MH-T P153	MHS-T P159	MHS-SP-T P161
Long shaft type clamping band split type (aluminum)			
			
MHL-FC P165			

Bellows Type

Top wire type(high-strength aluminum alloy)	Clamping type(high-strength aluminum alloy)	Expansion sleeve type (carbon steel)	
			
BWG-G P167	BWG-C P167	BWGS-T P168	

Nietz Precision Coupling

Spring Type

Flange type (carbon steel)	Top wire type (carbon steel)	Clamping type(carbon steel)	Expansion type(carbon steel)
			
TH-FL P175	TH-G P176	TH-C P181	TH-T P182

Slit type

Top wire type(short & small) (high-strength aluminum alloy)	Top wire type (high-strength aluminum alloy)	Clamping type(short & small) (high-strength aluminum alloy)	Clamping type (high-strength aluminum alloy)
			
XFD-G P187	XF-G P188	XFD-C P193	XF-C P194

Cross Slider Type

Top wire type (high-strength aluminum alloy)	Clamping type(short & small) (high-strength aluminum alloy)	Clamping type (high-strength aluminum alloy)	Top wire type(carbon steel)
			
HK-G P199	HKD-C P200	HK-C P200	HKS-G P207

Clamping type(carbon steel)			
			
HKS-C P208			

Cross shaft type

Clamping type(steel)			
			
SZ-C P213			

Rigid coupling

Top wire type (high-strength aluminum alloy)	Clamping type (high-strength aluminum alloy)	Clamping type (extended type) (high-strength aluminum alloy)	Clamping type (standard type) (high-strength aluminum alloy)
			
GX-G P217	GX-C P217	GXC-C P218	GXB-C P225

Clamping type(standard type) (carbon steel)(stainless steel)	Split clamping type (carbon steel)(stainless steel)	Split clamping type (carbon steel)(stainless steel)	
			
GXBS-C P226	GXFS-C P231	GXFS-CC P232	

Coupling Selection Guide

1.Mechanical characteristics of power machine:

The mechanical characteristics of the power machine have a certain impact on the entire transmission system. Diferent typesof power machines should choose the corresponding power machine coetficient K due to their different mechanicacharacteristics, Choosing the best tvpe of coupling power machine suitable for the svstem is the fundamental factor inchoosing the type of coupling The fundamental factor, the power ofthe power machine is an important basis for determining thesize ofthe coupling, which is proportional to the torque of the coupling.

2.Load category:

Due to diferent structures and materials, the bearing capacity of couplings used in the transmission system of variousmechanical products is very different. The load category is mainly for the impact, vibration, forward and reverse rotationbraking, frequent start and other reasons of the working load of the working machine. In order to facilitate calculation, the loadof the transmission system is divided into four types, see the following table:

Load category	Load condition	Working condition factor K
Ⅰ	Evenlyload, stable work	1～1.5
Ⅱ	Medium shock load	1.5～2.5
Ⅲ	Heavy impact load, frequent forward and reverse	2·5～2·75
Ⅳ	Extremely heavy impact load, frequent forward and reverse	>2·75

3.Rotation speed of coupling.

The allowable speed range of the coupling is determined by calculation according to the allowable linear speed and maximumouter circle size of different materials of the coupling. The alowable speed range of the coupling of different materials andspecifications is diferent. Change the material of the coupling can increase the allowable speed range of the coupling.

4. The relative displacement of the two shafts connected by the coupling:

The two shats connected by the coupling have relative displacement occur are caused by manufacturing errors, assemblyerrors, installation errors, deformation of the shaft due to load, deformation of the base, bearing wear, temperature changes(thermal expansion and contraction), relative movement between components, etc.

5.Transmission accuracy of the coupling

Small torque and shating transmission based on transmission motion require the coupling to have a high transmissiontip.Flexible couplings with metal elastic elements better be used. Flexible couplings with metal elastic elements can be used.Avoid using flexible couplings with gaps between the flexible couplings of non-metallic components and the movablecomponents at hiah speeds.Diaphraam couplinas with hiah transmission tip better be selected.

6.Coupling size, installation and maintenance.

The outer dimensions of the coupling, that is, the maximum radial and axial dimensions, must be within the installation spaceallowed by the machine and equipment. it should be selected for easy disassembly and assembly, no maintenance or easymaintenance, and replacement of wearing parts does not need to move the two shafts, and the alignment is relatively easyCoupling

7.Working environment:

The coupling is used with a variety of different host products, The surroundind working environment is more comolicatedConditions such as temperature, limit, water vapor, dust, sand, radiation, etc. are one of the important factors that must beconsidered when choosing a coupling.

8.Economy:

Due to the diferent types and specifications of the coupling structure, material, size and accuracy, the cost and manufacturingcost vary greatly, The cost of couplinas with general tipping reouirements is ower than that with hioh-precision reauirementsThe cost of couplings with simple structure and good manufacturability is lower than that of couplings with complex structureand poor manufacturability. The cost of couplings using general materials as raw materials is lower than that of couplingsusing specialmaterials.

When choosing a coupling, various factors should be considered comprehensively according to the actualsituation and requirements of the individual chooser, choose the most suitable coupling variety, type andspecification from the existing standard couplings which most suits the needs of diameter. Under normacircumstances, the existing coupling can basically meet the needs of different working conditions.

Torque calculation

1.Mechanical characteristics of power machine:

When know the motor power (kW) and rotary speed (n) during use, but not know the motor toeque,then can use the following formula to canculate motor torque:

$$\text{Motor torque T (N.M)} = 9550 \times \frac{P\ (KW)}{n\ (min^{-1})}$$

in this, power (KW) is is the needed real or transmission power (if it is unknown, then useparameters on the motorlabel.)

Often-used motor power and torque conversion List

Motor power	Motor rated rotary speed N=3000rpm Rated torque T(N.M)	Motor rated rotary speed N=2000rpm Rated torque T(N.M)	Motor rated rotary speed N=1000rpm Rated torque T(N.M)	Motor rated rotary speed N=750rpm Rated torque T(N.M)
0.05	0.16	0.24	0.48	0.64
0.10	0.32	0.48	0.96	1.27
0.20	0.64	0.96	1.91	2.55
0.40	1.27	1.91	3.82	5.09
0.75	2.39	3.58	7.16	9.55
1.00	3.18	4.78	9.55	12.73
1.50	4.78	7.16	14.33	19.10
2.00	6.37	9.55	19.10	25.47
3.00	9.55	14.33	28.65	38.20
3.50	11.14	16.71	33.43	44.57
5.00	15.92	23.88	47.75	63.67
7.00	22.28	33.43	66.85	89.13

2.Application parameter list:

After canculate the motor transmission torque T, then combine with he following suggested each application parameter listto ensure the parameterk.

Load parameter K1	
Constant load	K1=1·0
Small change load	K1=1·2
Often changed load	K1=1·7
Big change load	K1=2·1

Rotate time parameter K2		
Each day operate time	≤2 hour	K2=0.70
	≤4 hour	K2=0.85
	≤8 hour	K2=1.00
	≤16 hour	K2=1.18
	≤24 hour	K2=1.28

Start. stop frequencyparameter K3		
Start and stop times of each hour	≤10 times	K3=1.0
	≤30 times	K3=1.1
	≤60 times	K3=1.2
	≤120 times	K3=1.5
	≤340 times	K3=2.0

3. Determination of coupling torque.

After canculate the motor torque and ensure the application parameter, then choosen coupling torque can canculate as per the following formula:

$$T \geq T1 \times K1 \times K2 \times K3$$

(T: Couplingtorque T1: Motortorque K1: Load parameter K2: Operate time parameter K3: Start. stop frequency parameter

Deviation description

1.The flexible coupling can tolerate misalianment and transmit the rotation angle and torque, but if the misalignmentvalue exceeds the allowable value, it may cause vibration or result in a rapid shortening of life, therefore, make sure toadiust the alianment.

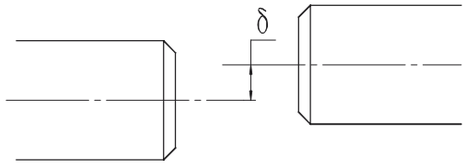
2.There are three kinds of shaft deviation, namely radial deviation, angular deviation and axial deviation. Please confirmthat the shaft deviation is within the allowable value described in the specification table of this catalog

3.The tolerance range of deviation listed in this product catalog refers to the situation where there is only a singledeviation in radial, angular, and axial deviations. When two or more deviations exist, the allowable value should be 1/2of the specification table of the deviation.

4.In order to extend the life, it is recommended that the deviation value should be adjusted within 1/3 of the maximumallowable value.

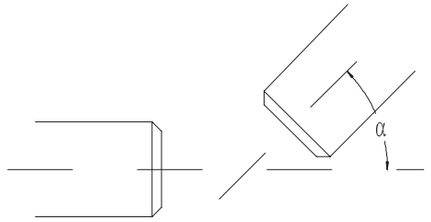
1:Radial deviation

Wheninstall,2 axial parallel but centerline not on 1 samestraightline,this deviation is called as radial deviation.



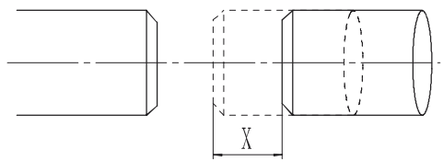
2: Angular deviation

When install,2 axialcenterline has a angle, this deviationis called as angular deviation.



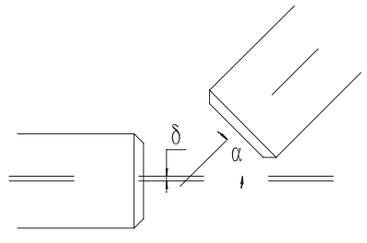
3:Axial deviation

Deviation of axial displacement due to mechanicareasons,this is called as axial deviation.



4:Compound deviation

Combine of 1,2,3 deviation is called as compounddeviation.



Term explanation

Rated torque:

Continuous passed torque value of coupling. when choose coupling please ensure the using load toeque is below therated toeque.

Maximum torque:

Torque value which coupling can instant pass.

Axis deviation:

Axis deviation of 2 axial which connect by coupling. There are three kinds of deviation, namely radial deviation, angulaldeviation and axial deviation, please adiust to the axis to ensure axis deviation of 2 axial is under the alowed deviationWhen at the same time have 2 or above 2 deviations, each correspondingly allowed value half correspondingly.

Radial deviation:

Parallel deviation of 2 connected axis

Angle deviation:

Angle deviation of2 connected axis

Axial deviation:

The axial displacement of each axis. Occurs when temperature rises to cause expansion and when the motor accelerates or decelerates.

Static torsional rigidity:

The rigidity of the coupling against torsion. Indicates the phase diference between the rotation direction of the input shaftand the output shaft when torque is applied to the coupling. The value in the product catalog represents the torsionalrigidity of the entire coupling. The larger the value, the higher the responsiveness, and high-precision rotation controcan be achieved.

Moment of inertia:

Indicates the value of the rotational inertia of the coupling. The greater the value, the greater the rotational inertia.

Backlash:

The loose clearance relative to the direction of rotation of the coupling. When need high-precision positioning, forwardrotation and reverse rotation, please consider choosing a coupling with zero backlash.

Maximum speed:

The maximum speed that the coupling can use. Since dynamic balance is not considered, balancing measures may betaken when using at high speeds.

Tightening torque:

The bolt tightening torgue when connecting the coupling to the shaft. Use a torque wrench to tighten with the specified torque.

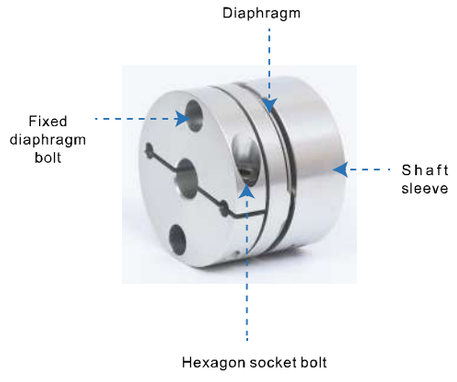
Electricalinsulation:

The electrical insulation between the two shaft sleeves of the coupling. A coupling made of rubber or resin is used between the two sleeves.

DMP-C series

coupling single diaphragm-clamping type (high-strength aluminum alloy)

Structure



Material

Shaft sleeve	high-strength aluminum alloy
	anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435（12.9 class）
	Ferric oxide protective film (black)
Hexagonsocket bolt	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position controlsystem
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Clamping fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoderXY axis sliding table,indexing table
- XY axis sliding table,indexing table
- Dust-free,vacuum environment transmission system
- Acidic and Alkaline, warm and humid environment

Product model description

DMP-39C - 10×16

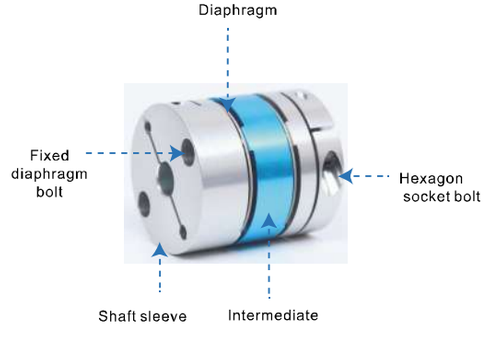
Product model specification　Shaft bore

※ Remarks: Non-standard aperture and keyway can be processed additionally

SMP-C Series Coupling

Double Diaphragm-Clamping Type (High Strength Aluminum Alloy)

Structure



Material

Shaft sleeve	high-strength aluminum alloy
	alloyanodizing treatment
Intermediate	high-strength aluminum
	alloyanodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position controlsystem
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Clamping fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoderXY axis sliding table,indexing table
- XY axis sliding table, indexing table
- Dust-free,vacuum environment transmission system
- Acidic and Alkaline, warm and humid environment

Product model description

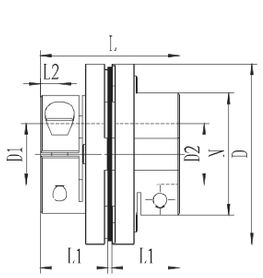
SMP-39C - 10×16

Product model specification　Shaft bore

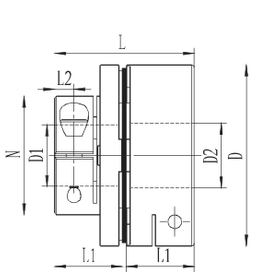
※ Remarks: Non-standard aperture and keyway can be processed additionally

DMP-C

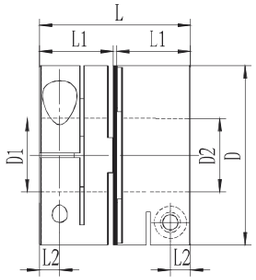
single diaphragm-clamping coupling (high-strength aluminum alloy)



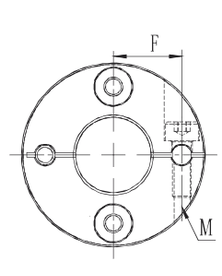
Shape 1
(small aperture* small aperture)



Shape 2
(small aperture * large aperture)



Shape 3
(large aperture *large aperture)



Specifications

Model	D1/D2 Aperture range		D	L	N	L1	L2	F	M	Screw tightening torque (N•M)
	Small aperture	Big aperture								
DMP-16C	-	3-5	16	17.8	-	8.7	2.55	5.2	M2	0.5
DMP-19C	-	4-8	19.6	2 0.8	-	10.2	2.9	7	M2.5	1
DMP-25C	-	5-12	25	24.4	-	12	3.3	9.25	M3	1.5
DMP-26C	-	5-12 14	26.5	25	-	12.3	3.6	8.9 9.5	M3 M2.5	1.5 1
DMP-27C	-	6-14	27	25	-	12.3	3.5	10.25	M3	1.5
DMP-34C	6-11	12-16	34	2 6.2	22.5	12.8	3.8	12	M3	1.5
DMP-39C	8-12	14-19	39	34	27	16.6	4.68	14.5	M4	3.5
DMP-44C	8-15	16-22	44	34	29.6	16.6	4.68	17	M4	3.5
DMP-56C	10-19	20-28	56	4 3.2	38	21	6	20.5	M5	8

D1/D2 Standard aperture

Model	3	4	5	6	8	10	11	12	14	15	16	18	19	20	22	24	25	28
DMP-16C	•	•	•															
DMP-19C		•	•	•	•													
DMP-25C			•	•	•	•	•	•										
DMP-26C			•	•	•	•	•	•	•									
DMP-27C				•	•	•	•	•	•									
DMP-34C				•	•	•	•	•	•	•	•							
DMP-39C					•	•	•	•	•	•	•	•	•					
DMP-44C					•	•	•	•	•	•	•	•	•	•	•			
DMP-56C						•	•	•	•	•	•	•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Max aperture (mm)	Ratedtorque (N.M)	Max torque (N.M)	Maximum speed (min-1)	Static torquerigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
							radial deviation	angular deviation	axial deviation	
DMP-16C	Φ5	0.6	1.2	15000	310	9.7×10^{-8}	0.02	0.5	±0.1	8
DMP-19C	Φ8	1	2	13000	620	5.3×10^{-7}	0.02	1	±0.1	14
DMP-25C	Φ12	1.8	3.6	11000	1400	2.2×10^{-6}	0.02	1	±0.2	24
DMP-26C	Φ14	2	4	10000	1500	2.9×10^{-6}	0.02	1	±0.2	27
DMP-27C	Φ14	2	4	10000	1500	2.4×10^{-6}	0.02	1	±0.2	28
DMP-34C	Φ16	4	8	10000	2600	6.0×10^{-6}	0.02	1	±0.3	48
DMP-39C	Φ19	7	14	10000	4500	9.7×10^{-6}	0.02	1	±0.3	7
DMP-44C	Φ22	9	18	10000	6200	2.4×10^{-5}	0.02	1	±0.3	99
DMP-56C	Φ28	24	48	8000	14500	7.6×10^{-5}	0.02	1	±0.4	216

When ordering:

DMP-39C - 10 ×16

model — Aperture — Aperture

※ Keyway machining

When machining keyway on one side shaft hole :DMP-39C-10Kx16
When machining keyway on two sides shaft hole:DMP-39C-10Kx16K

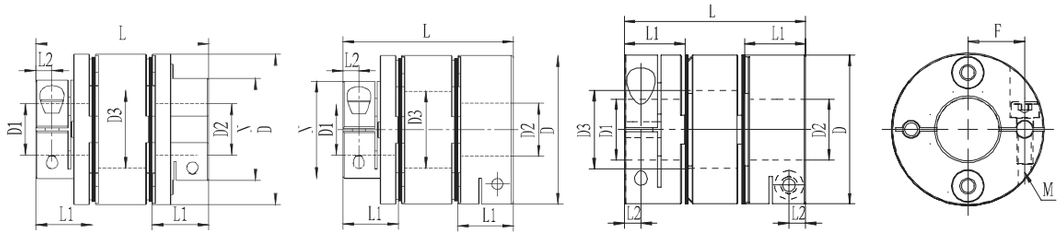
Please refer to forkeyway processing parameters

※ Shape change service:

If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

SMP-C

Double diaphragm-clamping type-coupling (high-strength aluminum alloy)



Shape 1
(small aperture* small aperture)

Shape 2
(small aperture * large aperture)

Shape 3
(large aperture *large aperture)

Specifications

Model	D1/D2 Aperture range		D	L	N	D3	L1	L2	F	M	Screw tightening torque (N•M)
	Small aperture	Big aperture									
SMP-16C	-	3-5	16	25.7	-	6	8.7	2.55	5.2	M2	0.5
SMP-19C	-	4-8	19.6	28.7	-	8.5	10.2	2.9	7	M2.5	1
SMP-25C	-	5-12	25	34.5	-	12.5	12	3.3	9.25	M3	1.5
SMP-26C	-	5-12 14	26.5	35.1	-	14.5	12.3	3.6	8.9 9.5	M3 M2.5	1.5 1
SMP-27C	-	6-14	27	35.1	-	14.5	12.3	3.5	10.25	M3	1.5
SMP-34C	6-11	12-16	34	38.4	22.5	16.5	12.8	3.8	12	M3	1.5
SMP-39C	8-12	14-19	39	48.8	27	20.5	16.6	4.68	14.5	M4	3.5
SMP-44C	8-15	16-22	44	48.8	29.6	23	16.6	4.68	17	M4	3.5
SMP-56C	10-19	20-28	56	64.4	38	29	21	6	20.5	M5	8

D1/D2 Standard aperture

Model	3	4	5	6	8	10	11	12	14	15	16	18	19	20	22	24	25	28
SMP-16C	•	•	•															
SMP-19C		•	•	•	•													
SMP-25C			•	•	•	•	•	•										
SMP-26C			•	•	•	•	•	•	•									
SMP-27C				•	•	•	•	•	•									
SMP-34C				•	•	•	•	•	•	•	•							
SMP-39C					•	•	•	•	•	•	•	•	•					
SMP-44C					•	•	•	•	•	•	•	•	•	•	•			
SMP-56C						•	•	•	•	•	•	•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Max aperture (mm)	Rated torque (N.M)	Max torque (N.M)	Maximum speed (min^{-1})	Static torquerigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
							radial deviation	angular deviation	axial deviation	
SMP-16C	Φ5	0.6	1.2	15000	210	3.2×10^{-7}	0.05	1	±0.2	12
SMP-19C	Φ8	1	2	13000	470	7.51×10^{-7}	0.15	2	±0.2	20
SMP-25C	Φ12	1.8	3.6	11000	880	2.5×10^{-6}	0.2	2	±0.4	35
SMP-26C	Φ14	2	4	10000	1080	4.09×10^{-6}	0.2	2	±0.4	37
SMP-27C	Φ14	2	4	10000	1080	3.0×10^{-6}	0.2	2	±0.4	39
SMP-34C	Φ16	4	8	10000	1700	9.1×10^{-6}	0.25	2	±0.6	2
SMP-39C	Φ19	7	14	10000	3250	2.2×10^{-5}	0.3	2	±0.6	115
SMP-44C	Φ22	9	18	8000	3800	3.4×10^{-5}	0.3	2	±0.6	147
SMP-56C	Φ28	24	48	8000	9300	1.18×10^{-4}	0.3	2	±0.8	334

When ordering:

SMP-39C - 10 ×16

model — Aperture — Aperture

※ Keyway machining

When machining keyway on one side shaft hole :DMP-39C-10Kx16
When machining keyway on two sides shaft hole:DMP-39C-10Kx16K

For keyway processing parameters, please refer to the keyway dimension table

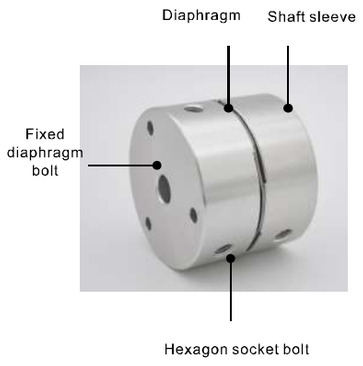
※ Shape change service:

If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

HDMP-G Series

coupling single diaphragm-top wire type (high-strength aluminum alloy)

Structure



Material

Shaft sleeve	high-strength aluminum alloy
	anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435（12.9 class）
	Ferric oxide protective film (black)
Hexagonsocket bolt	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position controlsystem
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Top wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoderXY axis sliding table,indexing table
- XY axis sliding table, indexing table
- Dust-free,vacuum environment transmission system
- Acidic and Alkaline, warm and humid environment

Product model description

HDMP-79G - 20 ×30

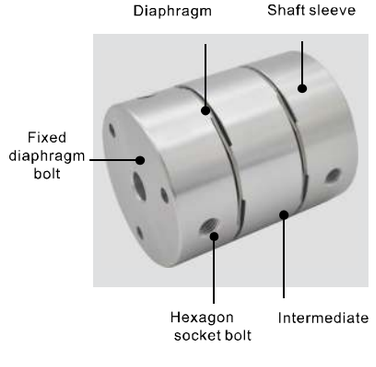
Product model specification　　Shaft bore

※ Remarks: keyway can be processed additionally

HSMP-G Series

Coupling Double Diaphragm-Top wire Type (High Strength Aluminum Alloy)

Structure



Material

Shaft sleeve	high-strength aluminum alloy
	anodizing treatment
Intermediate	high-strength aluminum alloy
	anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position controlsystem
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Top wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoderXY axis sliding table,indexing table
- XY axis sliding table, indexing table
- Dust-free,vacuum environment transmission system
- Acidic and Alkaline, warm and humid environment

Product model description

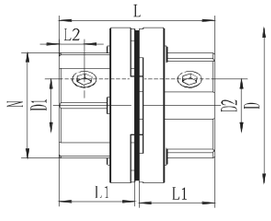
HSMP-79G - 20 ×30

Product model specification　　Shaft bore

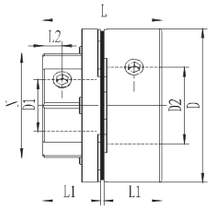
※ Remarks: keyway can be processed additionally

HDMP-G Series

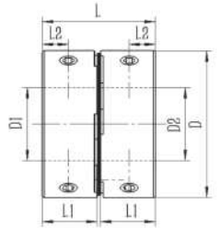
Single diaphragm-Top wire type- coupling (high-strength aluminum alloy)



Shape 1
(small aperture* small aperture)



Shape 2
(small aperture * large aperture)



Shape 3
(large aperture *large aperture)

Specifications

Model	D1/D2 Aperture range		D	L	N	L1	L2	M	Screw tightening torque (N•M)
	Small aperture	Big aperture							
HSMP-65G	10-22	24-35	65	54.5	44	26.5	12	M8	20
HSMP-79G	14-25	28-42	79	63.5	53	31	15	M10	40
HSMP-98G	25-35	38-50	98	69	68	33	15	M10	40

D1/D2 Standard aperture

Model	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50
HSMP-65G	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
HSMP-79G				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
HSMP-98G													●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Max aperture (mm)	Rated torque (N.M)	Max torque (N.M)	Maximum speed (min^{-1})	Static torquerigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
							radial deviation	angular deviation	axial deviation	
HSMP-65G	Φ35	50	100	9800	16000	2.2×10^{-4}	0.02	1	±0.45	376
HSMP-79G	Φ42	100	200	7900	23000	6.7×10^{-4}	0.02	1	±0.55	680
HSMP-98G	Φ50	280	560	6400	52000	1.7×10^{-3}	0.02	1	±0.65	1193

When ordering:

HDMP - 79G - 20×30

model — Aperture — Aperture

※ Keyway machining

When machining keyway on one side shaft hole :HDMP-79G-20Kx30
When machining keyway on two sides shaft hole:HDMP-79G-20Kx30K

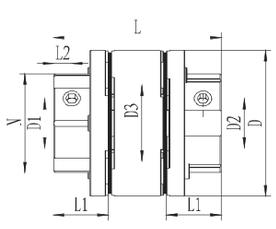
For keyway processing parameters, please refer to the keyway dimension table

※ Shape change service:

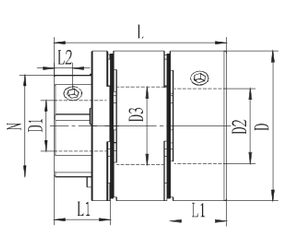
If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

HSMP-G Series

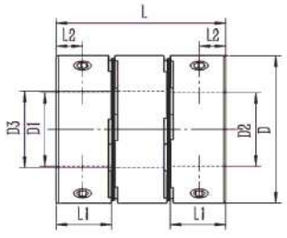
Double diaphragm-Top wire-coupling (high-strength aluminum alloy)



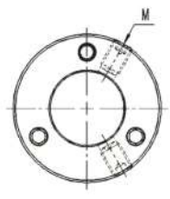
Shape 1
(small aperture* small aperture)



Shape 2
(small aperture * large aperture)



Shape 3
(large aperture *large aperture)



Specifications

Model	D1/D2 Aperture range		D	L	N	D3	L1	L2	M	Screw tightening torque (N•M)
	Small aperture	Big aperture								
HSMP-65G	10-22	24-35	65	76	44	36	26.5	12	M8	20
HSMP-79G	14-25	28-42	79	98.6	53	43	31	15	M10	40
HSMP-98G	25-35	38-50	98	105.5	68	51	33	15	M10	40

D1/D2 Standard aperture

Model	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50
HSMP-65G	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
HSMP-79G				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
HSMP-98G													●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Max aperture (mm)	Ratedtorque (N.M)	Max torque (N.M)	Maximum speed (min-¹)	Static torquerigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
							radial deviation	angular deviation	axial deviation	
HSMP-65G	Φ35	50	100	9800	15000	3.3×10^{-4}	0.35	2	±0.9	533
HSMP-79G	Φ42	100	200	7900	22000	1.0×10^{-3}	0.5	2	±1.1	1048
HSMP-98G	Φ50	280	560	6400	47000	2.6×10^{-3}	0.5	2	±1.3	1860

When ordering:

HSMP - 79G - 20×30

model — Aperture — Aperture

※ Keyway machining

When machining keyway on one side shaft hole :HSMP-79G-20Kx30
When machining keyway on two sides shaft hole:HSMP-79G-20Kx30K

For keyway processing parameters, please refer to the keyway dimension table

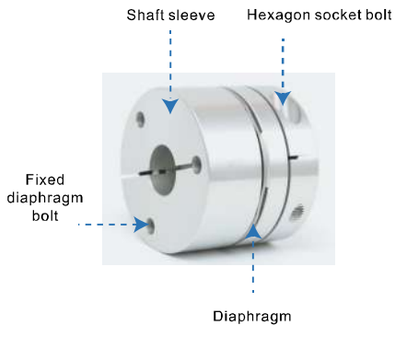
※ Shape change service:

If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

HDMP-C Series

Coupling single diaphragm-clamping type (high-strength aluminum alloy)

Structure



Material

Shaft sleeve	high-strength aluminum alloy
	anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagonsocket bolt	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position controlsystem
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Clamping fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoderXY axis sliding table,indexing table
- XY axis sliding table, indexing table
- Dust-free,vacuum environment transmission system
- Acidic and Alkaline, warm and humid environment

Product model description

HDMP-79C - 20 ×30

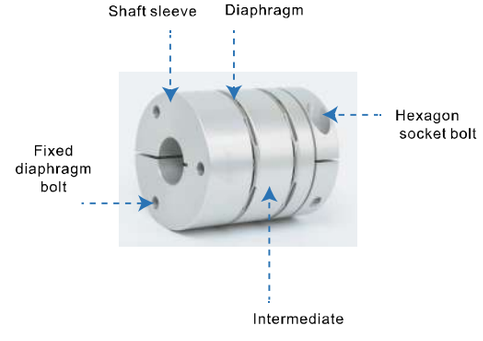
Product model specification　　Shaft bore

※ Remarks: Non-standard aperture and keyway can be processed additionally

HSMP-G Series

Coupling Double Diaphragm-Top wire Type (High Strength Aluminum Alloy)

Structure



Material

Shaft sleeve	high-strength aluminum alloy
	anodizing treatment
Intermediate	high-strength aluminum alloy
	anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position controlsystem
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Clamping fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environment transmission system
- Acidic and Alkaline, warm and humid environment

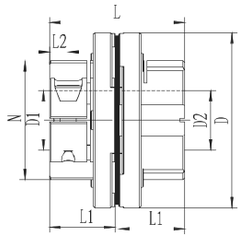
Product model description

HSMP-79C - 20 ×30

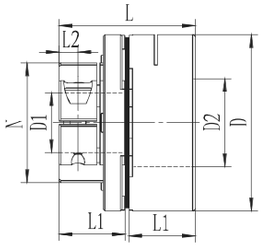
Product model specification　　Shaft bore

※ Remarks: Non-standard aperture and keyway can be processed additionally

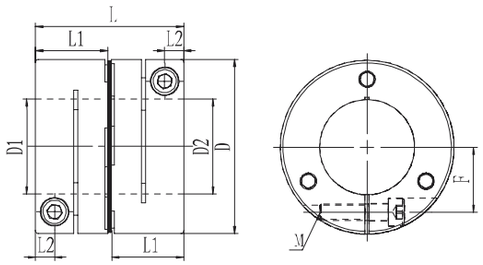
HDMP-C Single diaphragm-clamping-coupling (high-strength aluminum alloy)
HDMPS-C Single diaphragm-clamping-coupling (Carbon Steel)



Shape 1
(small aperture* small aperture)



Shape 2
(small aperture * large aperture)



Shape 3
(large aperture *large aperture)

Specifications

Model	D1/D2 Aperture range		D	L	N	L1	L2	F	M	Screw tightening torque (N•M)
	Small aperture	Big aperture								
HDMP-65C	10-22	24-35	65	54·5	44	26·5	7	24	M6	13
HDMP-79C	14-25	28-42	79	63.5	53	31	8.75	29	M8	28
HDMP-98C	25-35	38-50	98	69	68	33	8.75	38	M8	28
HDMPS-126C	30-45	48-60	126	91	88	40	11.5	46.5	M10	55
HDMPS-144C	40-55	60-80	144	104	98	45	14	55	M12	90

D1/D2 Standard aperture

Model	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55	60	65	70	75	80
HDMP-65C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•											
HDMP-79C				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
HDMP-98C													•	•	•	•	•	•	•	•	•	•						
HDMPS-126C															•	•	•	•	•	•	•	•	•	•				
HDMPS-144C																			•	•	•	•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Max aperture (mm)	Ratedtorque (N.M)	Max torque (N.M)	Maximum speed (min-^{1})	Static torquerigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
							radial deviation	angular deviation	axial deviation	
HDMP-65C	Φ35	50	100	9800	16000	2.2×10^{-4}	0.02	1	±0.45	361
HDMP-79C	Φ42	100	200	7900	23000	6.7×10^{-4}	0.02	1	±0.55	652
HDMP-98C	Φ50	280	560	6400	52000	1.7×10^{-3}	0.02	1	±0.65	1148
HDMPS-126C	Φ60	450	900	5000	430000	1.4×10^{-2}	0.02	1	±0.8	5862
HDMPS-144C	Φ80	800	1600	4350	780000	2.6×10^{-2}	0.02	1	±0.9	7761

When ordering:

HDMP - 79C - 20×30

model — Aperture — Aperture

※ Keyway machining

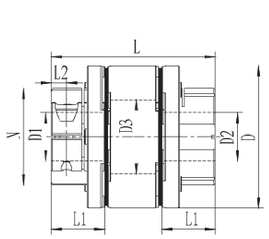
When machining keyway on one side shaft hole :HDMP-79C-20Kx30
When machining keyway on two sides shaft hole:HDMP-79C-20Kx30K

For keyway processing parameters, please refer to the keyway dimension table

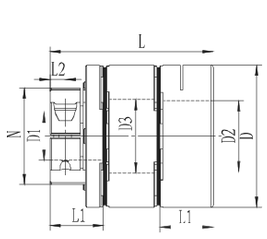
※ Shape change service:

If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

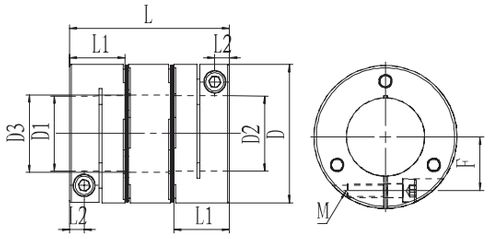
HSMP-C Double diaphragm-clamping-coupling (high-strength aluminum alloy)
HSMP-C Double diaphragm-clamping-coupling (carbon steel)



Shape 1
(small aperture* small aperture)



Shape 2
(small aperture * large aperture)



Shape 3
(large aperture *large aperture)

Specifications

Model	D1/D2 Aperture range		D	L	N	D3	L1	L2	F	M	Screw tightening torque (N•M)
	Small aperture	Big aperture									
HSMP-65C	10-22	24-35	65	76	44	36	26.5	7	24	M6	13
HSMP-79C	14-25	28-42	79	98.6	53	43	31	8.75	29	M8	28
HSMP-98C	25-35	38-50	98	05.5	68	51	33	8.75	38	M8	28
HSMPS-126C	30-45	48-60	126	126	88	65	40	11.5	46.5	M10	55
HSMPS-144C	40-55	60-80	144	144	98	80.5	45	14	55	M12	90

D1/D2 Aperture range

Model	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55	60	65	70	75	80
HSMP-65C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●											
HSMP-79C				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
HSMP-98C													●	●	●	●	●	●	●	●	●	●						
HSMPS-126C															●	●	●	●	●	●	●	●	●	●				
HSMPS-144C																			●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Max aperture (mm)	Ratedtorque (N.M)	Max torque (N.M)	Maximum speed (min-1)	Static torquerigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
							radial deviation	angular deviation	axial deviation	
HSMP-65C	Φ35	50	100	9800	15000	3.3×10^{-4}	0.35	2	±0.9	518
HSMP-79C	Φ42	100	200	7900	22000	1.0×10^{-3}	0.5	2	±1.1	1032
HSMP-98C	Φ50	280	560	6400	47000	2.6×10^{-3}	0.5	2	±1.3	1813
HSMPS-126C	Φ60	450	900	5000	215000	1.9×10^{-2}	0.5	2	±1.6	7830
HSMPS-144C	Φ80	800	1600	4350	390000	3.5×10^{-2}	0.5	2	±1.8	10485

When ordering:

HSMP - 79C - 20×30

model Aperture Aperture

※ Keyway machining

When machining keyway on one side shaft hole :HSMP-79C-20Kx30
When machining keyway on two sides shaft hole:HSMP-79C-20Kx30K

For keyway processing parameters, please refer to the keyway dimension table

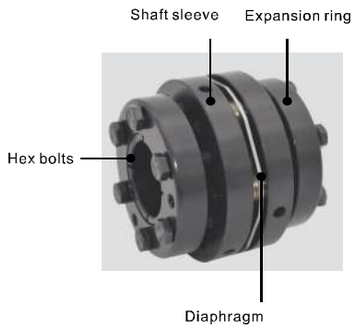
※ Shape change service:

If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

HDMPS-T Series

Coupling single diaphragm-expansion sleeve type (carbon steel)

Structure



Material

Shaft sleeve	Carbon steel/blackening
	Stainless steel/electrolysis
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Low inertia, high sensitivity, high torque rigidity
- Zero backlash
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Expansion sleeve fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Machine tool's feed axis,spindle
- XY axis sliding table, indexing table

Product model description

HDMPS-65T-20x22

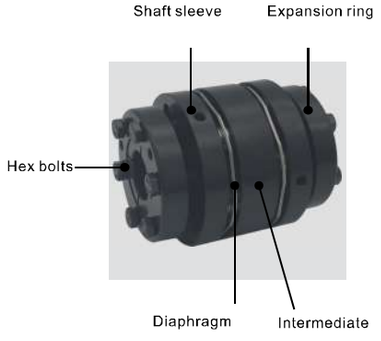
Product model specification　　Shaft bore

※ Note: Add S to indicate that the material is carbon steel

HSMPS-T Series

Coupling Double diaphragm-expansion sleeve type (carbon steel)

Structure



Material

Shaft sleeve	Carbon steel/blackening
	Stainless steel/electrolysis
Intermediate	Carbon steel/blackening
	Stainless steel/electrolysis
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected by expansion sleeve
- High torque rigidity
- High sensitivity
- Zero backlash
- Clockwise and counterclockwise rotation characteristics are identicalStainless steel diaphragm compensates for angular and axial deviation
- Expansion sleeve fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Machine tool's feed axis,spindle
- XY axis sliding table, indexing table

Product model description

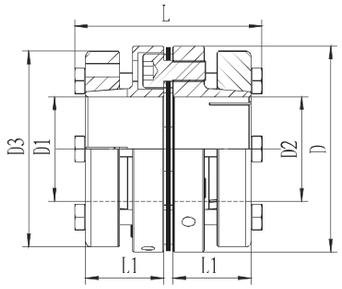
HSMPS-65T-20x22

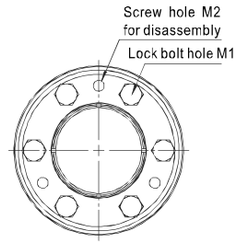
Product model specification　　Shaft bore

※ Note: Add S to indicate that the material is carbon steel

HDMPS-T Series

Single diaphragm-expansion sleeve type-coupling (carbon steel)





Specifications

Model	D	D3	L	L1	M1	M2	Screw tightening torque (N•M)
HDMPS-65T	65	47 53 63	63.5	26	M6	M6	10
HDMPS-79T	79	58 68 75	74.3	30	M6	M6	10
HDMPS-98T	98	73 78 83	75.8	30	M6	M6	10
HDMPS-126T	126	78 98 108	90.3	34	M8	M8	24
HDMPS-144T	144	88 108 118 128	98.6	37	M8	M8	24

D1/D2 Standard aperture

Model	Standard aperture												
HDMPS-65T	16	18	19	20	22	24	25	28	30	32	35		
HDMPS-79T	19	20	22	24	25	28	30	32	35	38	40		
HDMPS-98T	32	35	38	40	42	45	48	50					
HDMPS-126T	35	38	40	42	45	48	50	55	60	65	70		
HDMPS-144T	35	38	40	42	45	48	50	55	60	65	70	75	80

Series of photos:

Performance parameter

Model	Max aperture (mm)	Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial deviation	
HDMPS-65T	Φ35	100	500	52000	4.27×10^{-4}	0.02	1.0	±0.5	818
HDMPS-79T	Φ40	200	500	138000	1.48×10^{-3}	0.02	1.0	±0.5	1390
HDMPS-98T	Φ50	450	5000	250000	3.68×10^{-3}	0.02	1.0	±0.65	1761
HDMPS-126T	Φ70	600	4000	430000	9.7×10^{-3}	0.02	1.0	±0.8	3979
HDMPS-144T	Φ80	800	3700	780000	1.7×10^{-3}	0.02	1.0	±0.9	5418

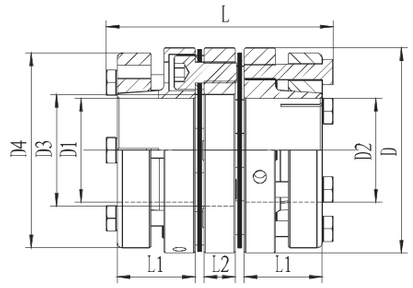
When ordering:

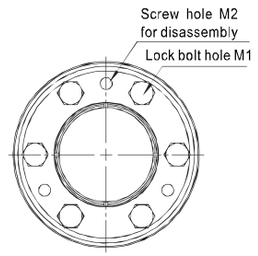
HDMPS-65T-20x22

Product model specification Aperture

HSMPS-T

Double diaphragm-expansion sleeve type-coupling (carbon steel)





Specifications

Model	D	D4	D3	L	L1	L2	M1	M2	Screw tightening torque (N•M)
HSMPS-65T	65	47 53 63	36	80.7	26	13.7	M6	M6	10
HSMPS-79T	79	58 68 75	41	100.3	30	19.7	M6	M6	10
HSMPS-98T	98	73 78 83	51	102.9	30	19.3	M6	M6	10
HSMPS-126T	126	78 98 108	72	114	34	12	M8	M8	24
HSMPS-144T	144	88 108 118 128	80	128.6	37	16	M8	M8	24

D1/D2 Standard aperture

Model	Standard aperture												
HSMPS-65T	16	18	19	20	22	24	25	28	30	32	35		
HSMPS-79T	19	20	22	24	25	28	30	32	35	38	40		
HSMPS-98T	32	35	38	40	42	45	48	50					
HSMPS-126T	35	38	40	42	45	48	50	55	60	65	70		
HSMPS-144T	35	38	40	42	45	48	50	55	60	65	70	75	80

Series of photos:

Performance parameter

Model	Max aperture (mm)	Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial deviation	
HSMPS-65T	Φ35	100	8500	25800	6.45×10^{-4}	0.25	1.0	±1.0	938
HSMPS-79T	Φ40	200	6500	72000	2.44×10^{-3}	0.30	1.0	±1.0	1728
HSMPS-98T	Φ50	450	5000	145000	5.28×10^{-3}	0.35	1.0	±1.3	2234
HSMPS-126T	Φ70	600	4000	215000	1.2×10^{-2}	0.4	1.0	±1.6	5000
HSMPS-144T	Φ80	800	3700	390000	2.3×10^{-2}	0.5	1.0	±1.8	7244

When ordering:

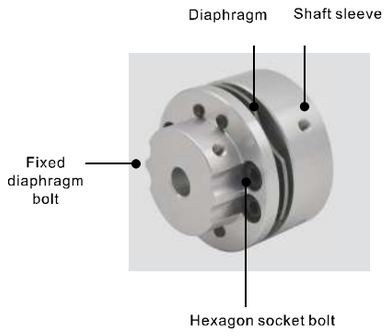
HSMPS- 65 T - 20×22

Product model specification Aperture

DMPA-G Series

Coupling single diaphragm-top wire type (high-strength aluminum alloy)

Structure



Material

Shaft sleeve	High-strength aluminum alloy
	Anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435（12.9 class）
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Top wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuumenvironment transmission system
- Acid-base,warmand humid environment

Product model description

DMPA-68G-20x30

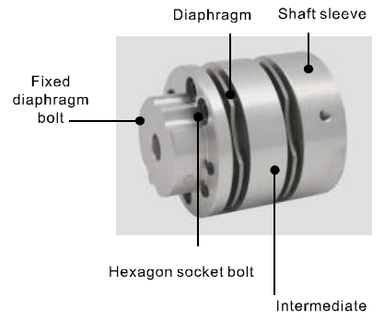
Product model specification　　Shaft bore

※ Remarks: keyway can be processe

SMPA-G Series

Couplings Double Diaphragm-Top wire Type (High Strength Aluminum Alloy)

Structure



Material

Shaft sleeve	High-strength aluminum alloy
	Anodizing treatment
Intermediate	High-strength aluminum alloy
	Anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Top wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuumenvironment transmission system
- Acid-base,warmand humid environment

Product model description

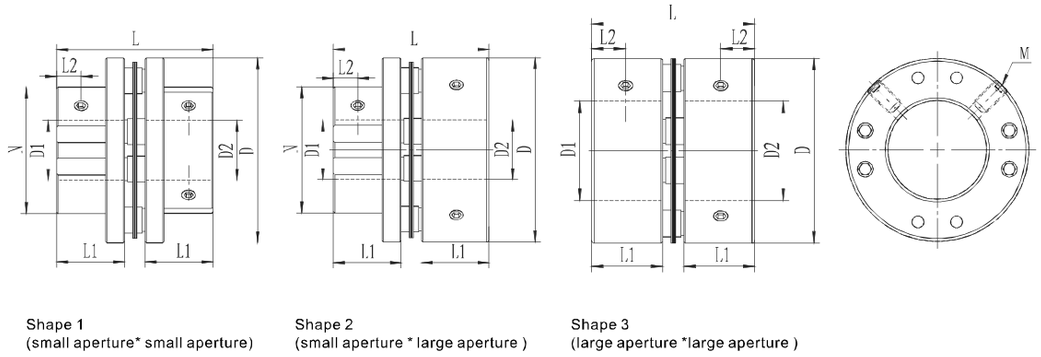
SMPA-68G-20x30

Product model specification　　Shaft bore

※ Remarks:keyway can be processe

DMPA-G Series

Single diaphragm-top wire-coupling (high-strength aluminum alloy)



Shape 1
(small aperture* small aperture)

Shape 2
(small aperture * large aperture)

Shape 3
(large aperture *large aperture)

Specifications

Model	D1/D2 Aperture range		D	L	N	L1	L2	M	Screw tightening torque (N•M)
	Small aperture	Big aperture							
DMPA-39G	8-12	14-19	39	35.25	24	15	7	M4	2.5
DMPA-46G	8-16	17-24	46	35.25	30	15	7	M4	2.5
DMPA-56G	10-20	22-30	56	47.5	38	20	10	M5	5
DMPA-68G	10-22	24-35	68	58.1	46.5	25	12	M6	8
DMPA-82G	14-28	30-42	82	68.7	54	30	14	M8	20
DMPA-92G	19-35	38-45	92	69	60	30	14	M8	20
DMPA-102G	20-40	42-55	102	69	68	30	15	M10	40

D1/D2 Standard aperture

Model	8	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
DMPA-39G	●	●	●	●	●	●	●	●	●	●														
DMPA-46G	●	●	●	●	●	●	●	●	●	●	●	●	●											
DMPA-56G		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
DMPA-68G		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
DMPA-82G					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
DMPA-92G										●	●	●	●	●	●	●	●	●	●	●	●	●		
DMPA-102G											●	●	●	●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Max aperture (mm)	Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial deviation	
DMPA-39G	Φ19	14	10000	3920	2.2×10^{-5}	0.02	0.5	±0.3	95
DMPA-46G	Φ24	18	10000	4480	2.8×10^{-5}	0.02	0.5	±0.3	123
DMPA-56G	Φ30	32	7700	20000	4.0×10^{-5}	0.02	0.5	±0.3	239
DMPA-68G	Φ35	60	6500	28000	1.0×10^{-4}	0.02	0.5	±0.3	422
DMPA-82G	Φ42	100	5500	70000	4.0×10^{-4}	0.02	0.5	±0.3	780
DMPA-92G	Φ45	150	5500	80000	1.0×10^{-3}	0.02	0.5	±0.3	984
DMPA-102G	Φ55	250	4000	140000	1.85×10^{-3}	0.02	0.5	±0.5	1158

When ordering:

DMPA - 68G - 20×30

Product model specification — Aperture

※ Keyway machining

When machining keyway on one side shaft hole :DMPA-68G-20x30
When machining keyway on two sides shaft hole:DMPA-68G-20x30K

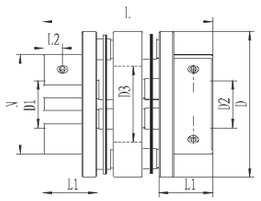
For keyway processing parameters, please refer to the keyway dimension table

※ Shape change service:

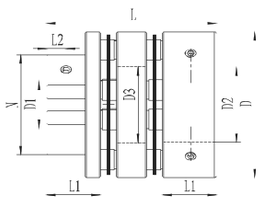
If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

SMPA-G Series

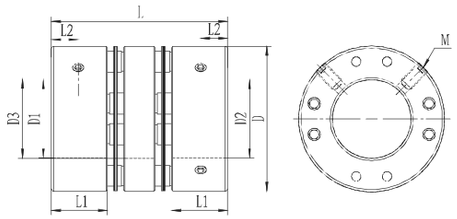
Double diaphragm-top wire-coupling (high-strength aluminum alloy)



Shape 1
(small aperture* small aperture)



Shape 2
(small aperture * large aperture)



Shape 3
(large aperture *large aperture)

Specifications

Model	D1/D2 Aperture range		D	L	N	D3	L1	L2	M	Screw tightening torque (N•M)
	Small aperture	Big aperture								
SMPA-39G	8-12	14-19	39	52.5	24	19.2	15	7	M4	2.5
SMPA-46G	8-16	17-24	46	52.5	30	24.5	15	7	M4	2.5
SMPA-56G	10-20	22-30	56	69	38	30.5	20	10	M5	5
SMPA-68G	10-22	24-35	68	80.2	46.5	35.5	25	12	M6	8
SMPA-82G	14-28	30-42	82	97.4	54	42.5	30	14	M8	20
SMPA-92G	19-35	38-45	92	98	60	47	30	15	M8	20
SMPA-102G	20-40	42-55	102	98	68	51	30	15	M10	40

D1/D2 Standard aperture

Model	8	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
SMPA-39G	●	●	●	●	●	●	●	●	●	●														
SMPA-46G	●	●	●	●	●	●	●	●	●	●	●	●	●											
SMPA-56G		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
SMPA-68G		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
SMPA-82G					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
SMPA-92G										●	●	●	●	●	●	●	●	●	●	●	●	●		
SMPA-102G											●	●	●	●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Max aperture (mm)	Allowable torque (N.M)	Maximum speed (min-1)	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial deviation	
SMPA-39G	Φ19	14	10000	1960	3.0×10^{-5}	0.1	1.0	±0.45	147
SMPA-46G	Φ24	18	10000	2240	3.8×10^{-5}	0.1	1.0	±0.55	188
SMPA-56G	Φ30	32	7700	10000	5.8×10^{-5}	0.2	1.0	±0.60	355
SMPA-68G	Φ35	60	6500	14000	1.4×10^{-4}	0.2	1.0	±0.60	582
SMPA-82G	Φ42	100	5500	35000	5.2×10^{-4}	0.2	1.0	±0.60	1144
SMPA-92G	Φ45	150	5500	40000	1.8×10^{-3}	0.2	1.0	±0.60	1424
SMPA-102G	Φ55	250	4000	70000	3.7×10^{-3}	0.25	1.0	±0.90	1703

When ordering:

SMPA -68G - 20×30

Product model specification — Aperture

※ Keyway machining

When machining keyway on one side shaft hole :SMPA-68G-20x30
When machining keyway on two sides shaft hole:SMPA-68G-20x30K

For keyway processing parameters, please refer to the keyway dimension table

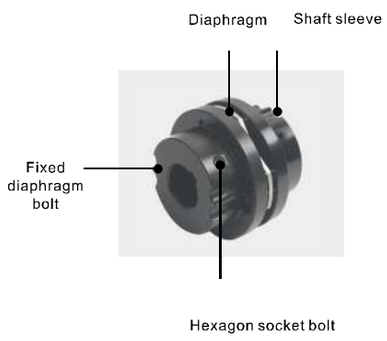
※ Shape change service:

If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

DMPS-G Series

Coupling single diaphragm-top wire type (carbon steel)

Structure



Material

Shaft sleeve	Carbon steel/blackening
	Stainless steel/electrolysis
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435（12.9 class）
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Top wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuumenvironment transmission system
- Acid-base,warmand humid environment

Product model description

DMPS-68G-20x30

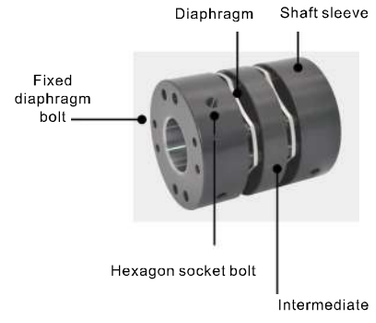
Product model specification　　Shaft bore

※ Remarks: keyway can be processe

SMPS-G Series

Coupling double diaphragm-top wire type (carbon steel)

Structure



Material

Shaft sleeve	Carbon steel/blackening
	Stainless steel/electrolysis
Intermediate	Carbon steel/blackening
	Stainless steel/electrolysis
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Top wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuumenvironment transmission system
- Acid-base,warmand humid environment

Product model description

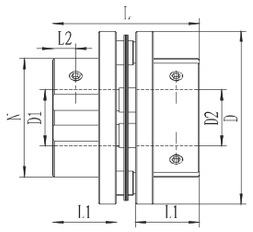
SMPS-68G-20x30

Product model specification　　Shaft bore

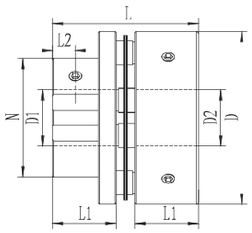
※ Remarks:keyway can be processe

DMPS-G Series

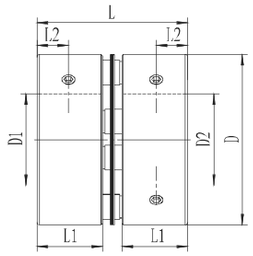
Single diaphragm-top wire type-coupling (carbon steel)



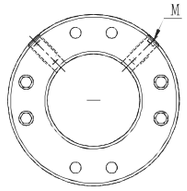
Shape 1
(small aperture* small aperture)



Shape 2
(small aperture * large aperture)



Shape 3
(large aperture *large aperture)



Specifications

Model	D1/D2 Aperture range		D	L	N	L1	L2	M	Screw tightening torque (N•M)
	Small aperture	Big aperture							
DMPS-39G	8-12	14-19	39	35.25	24	15	7	M4	2.5
DMPS-46G	8-16	17-24	46	35.25	30	15	7	M4	2.5
DMPS-56G	10-20	22-30	56	47.5	38	20	10	M5	5
DMPS-68G	10-22	24-35	68	58.1	46.5	25	12	M6	8
DMPS-82G	14-28	30-42	82	68.7	54	30	14	M8	20
DMPS-92G	19-35	38-45	92	69	60	30	14	M8	20
DMPS-102G	20-40	4 2-55	102	69	68	30	15	M10	40

D1/D2 Aperture range

Model	8	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
DMPS-39G	●	●	●	●	●	●	●	●	●	●														
DMPS-46G	●	●	●	●	●	●	●	●	●	●	●	●	●											
DMPS-56G		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
DMPS-68G		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
DMPS-82G					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
DMPS-92G										●	●	●	●	●	●	●	●	●	●	●	●	●	●	
DMPS-102G											●	●	●	●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Max aperture (mm)	Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial deviation	
DMPS-39G	Φ19	16.8	5000	4000	4.9×10^{-5}	0.02	0.5	±0.3	207
DMPS-46G	Φ24	21.6	5000	4600	9.4×10^{-5}	0.02	0.5	±0.3	280
DMPS-56G	Φ30	38.4	5000	22400	2.7×10^{-5}	0.02	0.5	±0.3	542
DMPS-68G	Φ35	80	5000	33600	7.4×10^{-4}	0.02	0.5	±0.3	1026
DMPS-82G	Φ42	130	4000	78000	1.8×10^{-4}	0.02	0.5	±0.3	1779
DMPS-92G	Φ45	195	4000	89000	3.0×10^{-3}	0.02	0.5	±0.3	2319
DMPS-102G	Φ55	325	4000	156000	4.6×10^{-3}	0.02	0.5	±0.5	2714

When ordering:

DMPS - 68G - 20×30

Product model specification — Aperture

※ Keyway machining

When machining keyway on one side shaft hole :DMPS-68G-20x30
When machining keyway on two sides shaft hole:DMPS-68G-20x30K

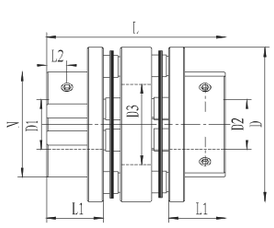
For keyway processing parameters, please refer to the keyway dimension table

※ Shape change service:

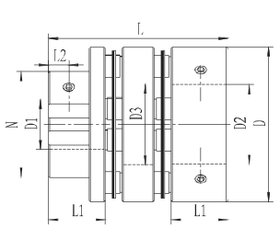
If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

SMPS-G Series

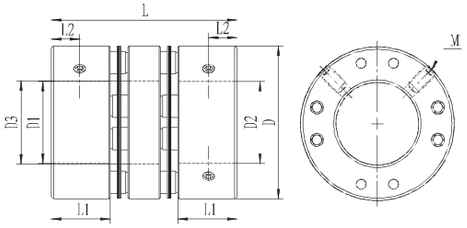
Coupling double diaphragm-clamping type (high-strength aluminum alloy)



Shape 1
(small aperture* small aperture)



Shape 2
(small aperture * large aperture)



Shape 3
(large aperture *large aperture)

Specifications

Model	D1/D2 Aperture range		D	L	N	D3	L1	L2	M	Screw tightening torque (N•M)
	Small aperture	Big aperture								
SMPS-39G	8-12	14-19	39	52.5	24	19.2	15	7	M4	2.5
SMPS-46G	8-16	17-24	46	52.5	30	24.5	15	7	M4	2.5
SMPS-56G	10-20	22-30	56	69	38	30.5	20	10	M5	5
SMPS-68G	10-22	24-35	68	80.2	46.5	35.5	25	12	M6	8
SMPS-82G	14-28	30-42	82	97.4	54	42.5	30	14	M8	20
SMPS-92G	19-35	38-45	92	98	60	47	30	15	M8	20
SMPS-102G	20-40	42-55	102	98	68	51	30	15	M10	40

D1/D2 Aperture range

Model	8	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
SMPS-39G	●	●	●	●	●	●	●	●	●	●														
SMPS-46G	●	●	●	●	●	●	●	●	●	●	●	●	●											
SMPS-56G		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
SMPS-68G		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
SMPS-82G					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
SMPS-92G										●	●	●	●	●	●	●	●	●	●	●	●	●	●	
SMPS-102G											●	●	●	●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Max aperture (mm)	Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial deviation	
SMPS-39G	Φ19	16.8	5000	2000	7.0×10^{-5}	0.1	1.0	±0.45	300
SMPS-46G	Φ24	21.6	5000	2300	1.3×10^{-5}	0.1	1.0	±0.55	402
SMPS-56G	Φ30	38.4	5000	11200	3.7×10^{-5}	0.2	1.0	±0.60	754
SMPS-68G	Φ35	80	5000	16800	9.8×10^{-4}	0.2	1.0	±0.60	1345
SMPS-82G	Φ42	130	4000	39000	2.5×10^{-4}	0.2	1.0	±0.60	2454
SMPS-92G	Φ45	195	4000	44500	4.1×10^{-3}	0.2	1.0	±0.60	3174
SMPS-102G	Φ55	325	4000	78000	6.3×10^{-3}	0.25	1.0	±0.90	3795

When ordering:

SMPS - 68G - 20×30

Product model specification — Aperture

※ Keyway machining

When machining keyway on one side shaft hole :SMPS-68G-20Kx30
When machining keyway on two sides shaft hole:SMPS-68G-20Kx30K

For keyway processing parameters, please refer to the keyway dimension table

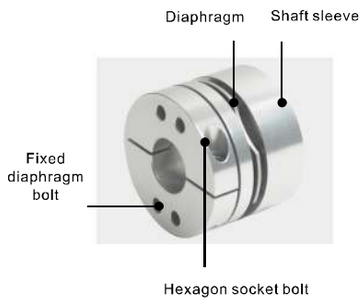
※ Shape change service:

If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

DMPA-C Series

Coupling single diaphragm-clamping type (high-strength aluminum alloy)

Structure



Material

Shaft sleeve	High-strength aluminum alloy
	Anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435（12.9 class）
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Clamping wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuumenvironment transmission system
- Acid-base,warmand humid environment

Product model description

DMPA-68C-20x30

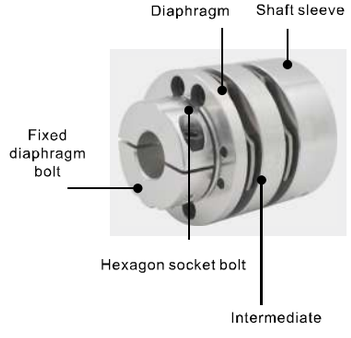
Product model specification　Shaft bore

※ Remarks: keyway can be processe

SMPA-C Series

Coupling double diaphragm-clamping type (high-strength aluminum alloy)

Structure



Material

Shaft sleeve	Carbon steel/blackening
	Stainless steel/electrolysis
Intermediate	Carbon steel/blackening
	Stainless steel/electrolysis
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Clamping wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuumenvironment transmission system
- Acid-base,warmand humid environment

Product model description

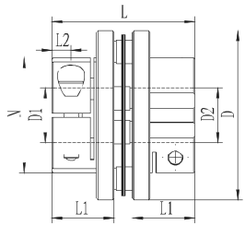
SMPA-68C-20x30

Product model specification　Shaft bore

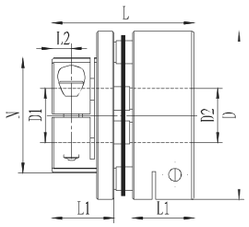
※ Remarks:keyway can be processe

DMPA-C Series

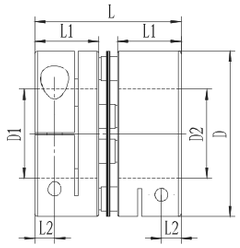
Single diaphragm-clamping type-coupling (high-strength aluminum alloy)



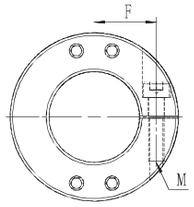
Shape 1
(small aperture* small aperture)



Shape 2
(small aperture * large aperture)



Shape 3
(large aperture *large aperture)



Specifications

Model	D1/D2 Aperture range		D	L	N	L1	L2	F	M	Screw tightening torque (N•M)
	Small aperture	Big aperture								
DMPA-39C	8-12	14-19	39	36.45	26	15.6	4.55	14.5	M4	2.5
DMPA-46C	8-16	17-24	46	36.45	30	15.6	4.5	17	M4	2.5
DMPA-56C	10-20	22-30	56	47.5	38	20	6.5	20.5	M5	5
DMPA-68C	10-22	24-35	68	58.1	46.5	25	7.75	24	M6	8
DMPA-82C	14-28	30-42	82	68.7	54	30	9	29	M8	28
DMPA-92C	19-35	38-45	92	69	60	30	9	34	M8	28
DMPA-102C	20-40	42-55	102	69	68	30	9	38	M8	28

D1/D2 Standard aperture

Model	8	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
DMPA-39C	●	●	●	●	●	●	●	●	●	●														
DMPA-46C	●	●	●	●	●	●	●	●	●	●	●	●	●											
DMPA-56C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
DMPA-68C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
DMPA-82C					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
DMPA-92C										●	●	●	●	●	●	●	●	●	●	●	●	●	●	
DMPA-102C											●	●	●	●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Max aperture (mm)	Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial deviation	
DMPA-39C	Φ19	14	10000	3920	2.2×10^{-5}	0.02	0.5	±0.3	93
DMPA-46C	Φ24	18	10000	4480	2.8×10^{-5}	0.02	0.5	±0.3	120
DMPA-56C	Φ30	32	7700	20000	4.0×10^{-5}	0.02	0.5	±0.3	236
DMPA-68C	Φ35	60	6500	28000	1.0×10^{-4}	0.02	0.5	±0.3	410
DMPA-82C	Φ42	100	5500	70000	4.0×10^{-4}	0.02	0.5	±0.3	763
DMPA-92C	Φ45	150	5500	80000	1.2×10^{-3}	0.02	0.5	±0.3	970
DMPA-102C	Φ55	250	4000	140000	1.85×10^{-3}	0.02	0.5	±0.5	1127

When ordering:

DMPA - 68C - 20×30

Product model specification — Shaft bore

※ Keyway machining

When machining keyway on one side shaft hole :DMPA-68C-20Kx30
When machining keyway on two sides shaft hole:DMPA-68C-20Kx30K

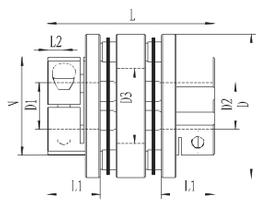
For keyway processing parameters, please refer to the keyway dimension table

※ Shape change service:

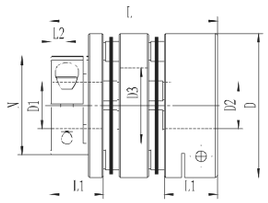
If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

SMPA-C Series

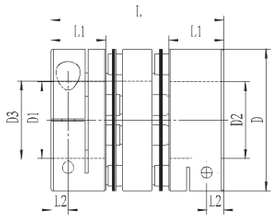
Double diaphragm-clamping-coupling (high-strength aluminum alloy)



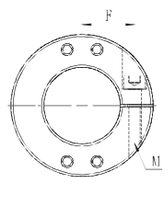
Shape 1
(small aperture* small aperture)



Shape 2
(small aperture * large aperture)



Shape 3
(large aperture *large aperture)



Specifications

Model	D1/D2 Aperture range		D	L	N	D3	L1	L2	F	M	Screw tightening torque (N•M)
	Small aperture	Big aperture									
SMPA-39C	8-12	14-19	39	53.7	26	19.2	15. 6	4.55	14.5	M4	2.5
SMPA-46C	8-16	17-24	46	53.7	30	24.5	15. 6	4.5	17	M4	2.5
SMPA-56C	10-20	22-30	56	69	38	30.5	20	6.5	20.5	M5	5
SMPA-68C	10-22	24-35	68	80.2	46.5	35.5	25	7.75	24	M6	8
SMPA-82C	14-28	30-42	82	97.4	54	42.5	30	9	29	M8	28
SMPA-92C	19-35	38-45	92	98	60	51	30	9	38	M8	28
SMPA-102C	20-40	42-55	102	98	68	51	30	9	38	M8	28

D1/D2 Standard aperture

Model	8	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
SMPA-39C	●	●	●	●	●	●	●	●	●	●														
SMPA-46C	●	●	●	●	●	●	●	●	●	●	●	●	●											
SMPA-56C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
SMPA-68C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
SMPA-82C					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
SMPA-92C										●	●	●	●	●	●	●	●	●	●	●	●	●	●	
SMPA-102C											●	●	●	●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Max aperture (mm)	Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial deviation	
SMPA-39C	Φ19	14	10000	1960	3.0×10^{-5}	0.1	1.0	±0.45	145
SMPA-46C	Φ24	18	10000	2240	3.8×10^{-5}	0.1	1.0	±0.55	185
SMPA-56C	Φ30	32	7700	10000	5.8×10^{-5}	0.2	1.0	±0.60	352
SMPA-68C	Φ35	60	6500	14000	1.4×10^{-4}	0.2	1.0	±0.60	571
SMPA-82C	Φ42	100	5500	35000	5.2×10^{-4}	0.2	1.0	±0.60	1128
SMPA-92C	Φ45	150	5500	40000	1.8×10^{-3}	0.2	1.0	±0.60	1410
SMPA-102C	Φ55	250	4000	70000	3.7×10^{-3}	0.25	1.0	±0.90	1671

When ordering:

SMPA - 68C - 20×30

Product model specification — Shaft bore

※ Keyway machining

When machining keyway on one side shaft hole :SMPA-68C-20Kx30
When machining keyway on two sides shaft hole:SMPA-68C-20Kx30K

For keyway processing parameters, please refer to the keyway dimension table

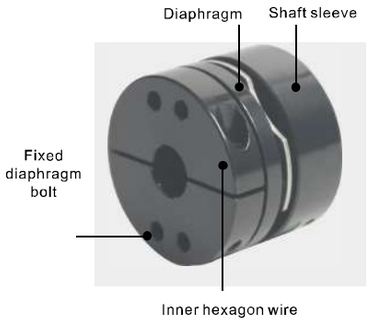
※ Shape change service:

If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

DMPS-C Series

Coupling single diaphragm-clamping type (carbon steel)

Structure



Material

Shaft sleeve	Carbon steel/blackening
	Stainless steel/electrolysis
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435（12.9 class）
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Clamping wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuumenvironment transmission system
- Acid-base,warmand humid environment

Product model description

DMPA-68C-20x30

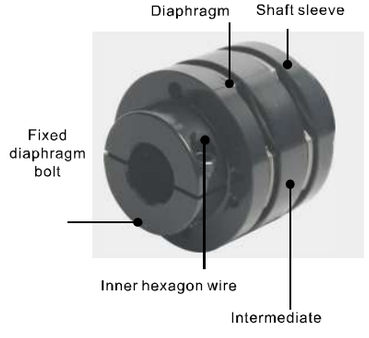
Product model specification　　Shaft bore

※ Remarks: keyway can be processed

SMPS-C Series

Coupling Double Diaphragm-Clamping Type (Carbon Steel)

Structure



Material

Shaft sleeve	Carbon steel/blackening
	Stainless steel/electrolysis
Intermediate	Carbon steel/blackening
	Stainless steel/electrolysis
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Clamping wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuumenvironment transmission system
- Acid-base,warmand humid environment

Product model description

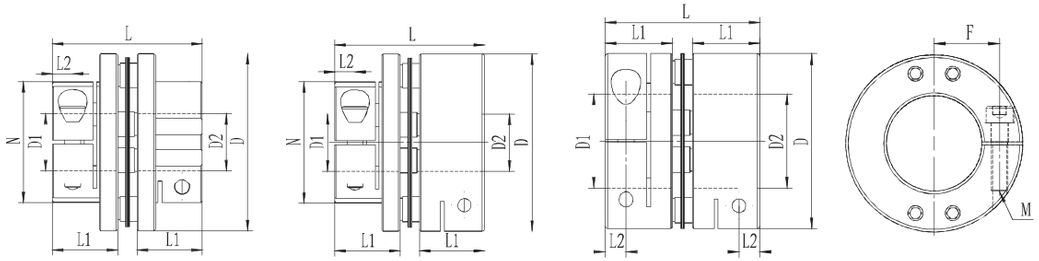
SMPA-68C-20x30

Product model specification　　Shaft bore

※ Remarks: keyway can be processed

DMPS-C Series

Single diaphragm-clamping type-coupling (carbon steel)



Shape 1
(small aperture* small aperture)

Shape 2
(small aperture * large aperture)

Shape 3
(large aperture *large aperture)

Specifications

Model	D1/D2 Aperture range		D	L	N	L1	L2	F	M	Screw tightening torque (N•M)
	Small aperture	Big aperture								
DMPS-39C	8-12	14-19	39	36.45	26	15.6	4.55	14.5	M4	2.5
DMPS-46C	8-16	17-24	46	36.45	30	15.6	4.5	17	M4	2.5
DMPS-56C	10-20	2 2-30	56	47.5	38	20	6.5	20.5	M5	5
DMPS-68C	10-22	2 4-35	68	58.1	46.5	25	7.75	24	M6	8
DMPS-82C	14-28	3 0-42	82	68.7	54	30	9	29	M8	28
DMPS-92C	19-35	3 8-45	92	69	60	30	9	34	M8	28
DMPS-102C	20-40	4 2-55	102	69	68	30	9	38	M8	28

D1/D2 Standard aperture

Model	8	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
DMPS-39C	●	●	●	●	●	●	●	●	●	●														
DMPS-46C	●	●	●	●	●	●	●	●	●	●	●	●	●											
DMPS-56C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
DMPS-68C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
DMPS-82C					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
DMPS-92C										●	●	●	●	●	●	●	●	●	●	●	●	●	●	
DMPS-102C											●	●	●	●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Max aperture (mm)	Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial deviation	
DMPS-39C	Φ19	16.8	5000	4000	4.8×10^{-5}	0.02	0.5	±0.3	200
DMPS-46C	Φ24	21.6	5000	4600	9.0×10^{-5}	0.02	0.5	±0.3	269
DMPS-56C	Φ30	38.4	5000	22400	2.6×10^{-4}	0.02	0.5	±0.3	528
DMPS-68C	Φ35	80	5000	33600	7.2×10^{-4}	0.02	0.5	±0.3	985
DMPS-82C	Φ42	130	4000	78000	1.8×10^{-3}	0.02	0.5	±0.3	1718
DMPS-92C	Φ45	195	4000	89000	2.9×10^{-3}	0.02	0.5	±0.3	2256
DMPS-102C	Φ55	325	4000	156000	4.5×10^{-3}	0.02	0.5	±0.5	2622

When ordering:

DMPS - 68C - 20×30

Product model specification — Shaft bore

※ Keyway machining

When machining keyway on one side shaft hole :DMPA-68C-20Kx30
When machining keyway on two sides shaft hole:DMPA-68C-20Kx30K

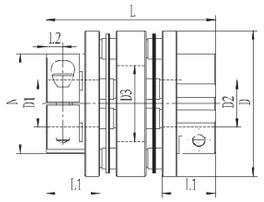
For keyway processing parameters, please refer to the keyway dimension table

※ Shape change service:

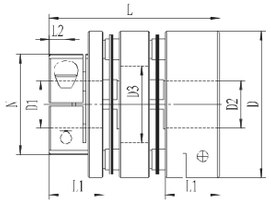
If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

SMPS-C Series

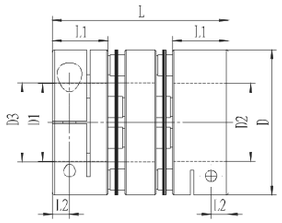
Double diaphragm-clamping-coupling (carbon steel)

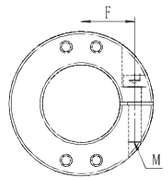


Shape 1
(small aperture* small aperture)



Shape 2
(small aperture * large aperture)





Shape 3
(large aperture *large aperture)

Specifications

Model	D1/D2 Aperture range		D	L	N	D3	L1	L2	F	M	Screw tightening torque (N•M)
	Small aperture	Big aperture									
SMPS-39C	8-12	14-19	39	53.7	26	19.2	15.6	4.55	14.5	M4	2.5
SMPS-46C	8-16	17-24	46	53.7	30	24.5	15.6	4.5	17	M4	2.5
SMPS-56C	10-20	22-30	56	69	38	30.5	20	6.5	20.5	M5	5
SMPS-68C	10-22	24-35	68	80.2	46.5	35.5	25	7.75	24	M6	8
SMPS-82C	14-28	30-42	82	97.4	54	42.5	30	9	29	M8	28
SMPS-92C	19-35	38-45	92	98	60	47	30	9	34	M8	28
SMPS-102C	20-40	42-55	102	98	68	51	30	9	38	M8	28

D1/D2 Standard aperture

Model	8	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
SMPS-39C	●	●	●	●	●	●	●	●	●	●														
SMPS-46C	●	●	●	●	●	●	●	●	●	●	●	●	●											
SMPS-56C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
SMPS-68C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
SMPS-82C					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
SMPS-92C										●	●	●	●	●	●	●	●	●	●	●	●	●	●	
SMPS-102C											●	●	●	●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Max aperture (mm)	Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG-M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial deviation	
SMPS-39C	Φ19	16.8	5000	2000	6.8×10^{-5}	0.1	1.0	±0.45	292
SMPS-46C	Φ24	21.6	5000	2300	1.3×10^{-4}	0.1	1.0	±0.55	391
SMPS-56C	Φ30	38.4	5000	11200	3.7×10^{-4}	0.2	1.0	±0.60	740
SMPS-68C	Φ35	80	5000	16800	9.4×10^{-4}	0.2	1.0	±0.60	1304
SMPS-82C	Φ42	130	4000	39000	2.5×10^{-3}	0.2	1.0	±0.60	2393
SMPS-92C	Φ45	195	4000	44500	4.0×10^{-3}	0.2	1.0	±0.60	3111
SMPS-102C	Φ55	325	4000	78000	6.2×10^{-3}	0.25	1.0	±0.90	3703

When ordering:

SMPS - 68C - 20×30

Product model specification — Shaft bore

※ Keyway machining

When machining keyway on one side shaft hole :DMPA-68C-20Kx30
When machining keyway on two sides shaft hole:DMPA-68C-20Kx30K

For keyway processing parameters, please refer to the keyway dimension table

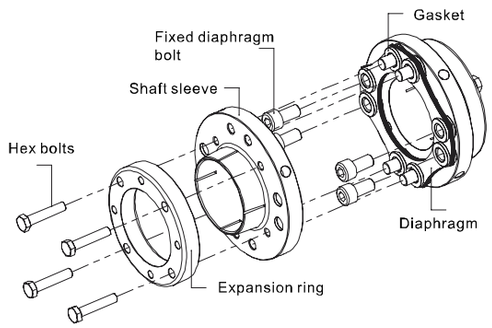
※ Shape change service:

If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

DMP-T Series

Coupling Single diaphragm-expansion sleeve type (high-strength aluminum alloy)

Structure



Material

Shaft sleeve	High-strength aluminum alloy
	Anodizing treatment
Expansion ring	High-strength aluminum alloy
	Anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435（12.9 class）
	Ferric oxide protective film（black）
Hexagon socket bolt	SCM435(12.9 class)
	Ferric oxide protective film（black）

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Clamping wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Machine tool's feed axis, spindle
- XY axis sliding table, indexing table

Product model description

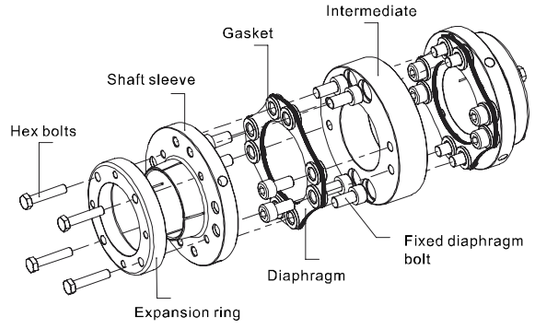
DMP-68T - 20x22

Product model specification　　Shaft bore

SMP-T Series

coupling Double Diaphragm-Expansion Sleeve Type (High Strength Aluminum Alloy)

Structure



Material

Shaft sleeve	High-strength aluminum alloy
	Anodizing treatment
Intermediate	High-strength aluminum alloy
	Anodizing treatment
Expansion ring	High-strength aluminum alloy
	Anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435（12.9 class）
	Ferric oxide protective film（black）
Hexagon socket bolt	SCM435(12.9 class)
	Ferric oxide protective film（black）

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- High torque rigidity
- High sensitivity
- Zero backlash
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragm compensates for angular and axial deviation
- Expansion sleeve fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Machine tool's feed axis, spindle
- XY axis sliding table, indexing table

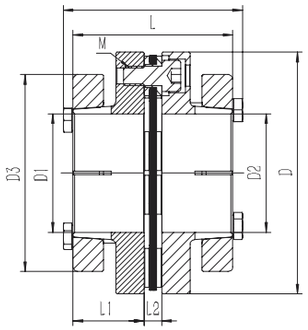
Product model description

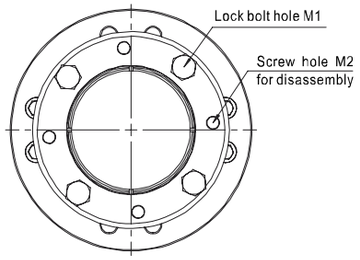
SMP-68T - 20x22

Product model specification　　Shaft bore

DMP-T Series

Single diaphragm-expansion sleeve type-coupling (high-strength aluminum alloy)





Specifications

Model	D	D3	L	L1	L2	L3	M	M1	M2	Screw tightening torque (N•M)
DMP-56T	56	40 48	47.5	20	7.5	54.5	M5	M5	M5	6
DMP-68T	68	44 53 63	60.1	26	8.1	67.1	M5	M5	M5	6
DMP-82T	82	58 68 75	68.7	30	8.7	76.7	M8	M6	M6	13.7
DMP-92T	92	58 68 78	69	30	9	77	M8	M6	M6	13.7
DMP-102T	102	73 78 83	69	30	9	77	M8	M6	M6	13.7

D1/D2 Standard aperture

Model	Standard aperture												
DMP-56T	10	11	12	14	15	16	17	18	19	20	22	24	25
DMP-68T	16	18	19	20	22	24	25	28	30	32	35		
DMP-82T	19	20	22	24	25	28	30	32	35	38	40		
DMP-92T	20	22	24	25	28	30	32	35	38	40	42	45	
DMP-102T	32	35	38	40	42	45	48	50					

Series of photos:

Performance parameter

Model	Max aperture (mm)	Rated torque (N.M)	Max torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
							radial deviation	angular deviation	axial deviation	
DMP-56T	Φ25	58	116	9000	21000	3.6×10^{-5}	0.02	1.0	±0.2	230
DMP-68T	Φ35	60	120	8500	70000	2.6×10^{-4}	0.02	1.0	±0.3	385
DMP-82T	Φ40	100	200	6500	120000	7.1×10^{-4}	0.02	1.0	±0.55	702
DMP-92T	Φ45	150	300	5800	130000	9.4×10^{-4}	0.02	1.0	±0.60	798
DMP-102T	Φ50	250	500	5200	140000	1.89×10^{-3}	0.02	1.0	±0.74	927

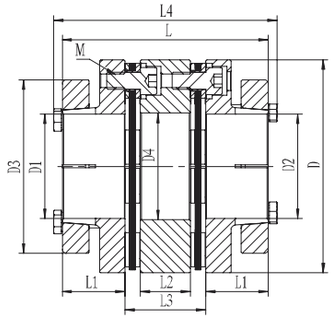
When ordering:

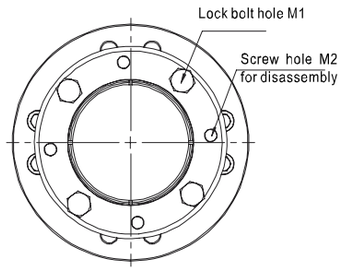
DMP - 68T - 20×30

Product model specification — Shaft bore

SMP-T Series

Double diaphragm-expansion sleeve type-coupling (high-strength aluminum alloy)





Specifications

Model	D	D3	D4	L	L1	L2	L3	L4	M	M1	M2	Screw tightening torque (N•M)
SMP-56T	56	40 48	29	69	20	14	29	76	M5	M5	M5	6
SMP-68T	68	44 53 63	36	82.2	26	14	30.2	89.2	M5	M5	M5	6
SMP-82T	82	58 68 75	41	97.4	30	20	37.4	105.4	M8	M6	M6	13.7
SMP-92T	92	58 68 78	47	98	30	20	38	106	M8	M6	M6	13.7
SMP-102T	102	73 78 83	51	102	30	24	42	110	M8	M6	M6	13.7

D1/D2 Standard aperture

Model	Standard aperture												
SMP-56T	10	11	12	14	15	16	17	18	19	20	22	24	25
SMP-68T	16	18	19	20	22	24	25	28	30	32	35		
SMP-82T	19	20	22	24	25	28	30	32	35	38	40		
SMP-92T	20	22	24	25	28	30	32	35	38	40	42	45	
SMP-102T	32	35	38	40	42	45	48	50					

Series of photos:

Performance parameter

Model	Max aperture (mm)	Rated torque (N.M)	Max torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
							radial deviation	angular deviation	axial deviation	
SMP-56T	Φ25	58	116	9000	10000	5.4×10^{-5}	0.25	1.0	±0.8	349
SMP-68T	Φ35	60	120	8500	35000	3.7×10^{-4}	0.25	1.0	±0.9	563
SMP-82T	Φ40	100	200	6500	60000	1.03×10^{-3}	0.25	1.0	±1.1	1072
SMP-92T	Φ45	150	300	5800	65000	1.5×10^{-3}	0.25	1.0	±1.2	1223
SMP-102T	Φ50	250	500	5200	70000	2.75×10^{-3}	0.25	1.0	±1.4	1545

When ordering:

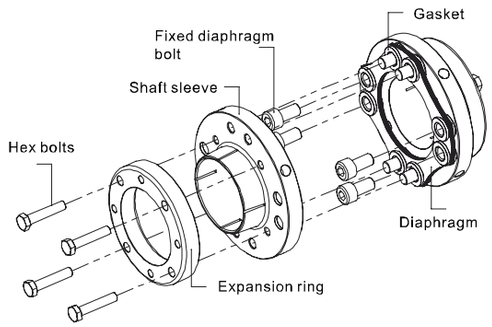
SMP - 68T - 20×30

Model — Shaft bore

DMPS-T Series

Coupling Single diaphragm-expansion sleeve type (carbon steel)

Structure



Material

Shaft sleeve	Carbon steel/blackening
	Stainless steel/electrolysis
Expansion ring	Carbon steel/blackening
	Stainless steel/electrolysis
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435（12.9 class）
	Ferric oxide protective film（black）
Hexagon socket bolt	SCM435(12.9 class)
	Ferric oxide protective film（black）

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Low inertia, high sensitivity, high torque rigidity
- Zero backlash
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Expansion sleeve fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Machine tool's feed axis, spindle
- XY axis sliding table, indexing table

Product model description

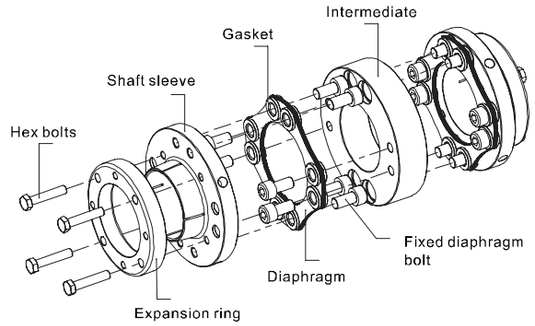
DMPS-68T - 20x22

Product model specification　　Shaft bore

SMP-T Series

coupling Double Diaphragm-Expansion Sleeve Type (High Strength Aluminum Alloy)

Structure



Material

Shaft sleeve	Carbon steel/blackening
	Stainless steel/electrolysis
Intermediate	Carbon steel/blackening
	Stainless steel/electrolysis
Expansion ring	Carbon steel/blackening
	Stainless steel/electrolysis
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435（12.9 class）
	Ferric oxide protective film（black）
Hexagon socket bolt	SCM435(12.9 class)
	Ferric oxide protective film（black）

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- High torque rigidity
- High sensitivity
- Zero backlash
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragm compensates for angular and axial deviation
- Expansion sleeve fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Machine tool's feed axis, spindle
- XY axis sliding table, indexing table

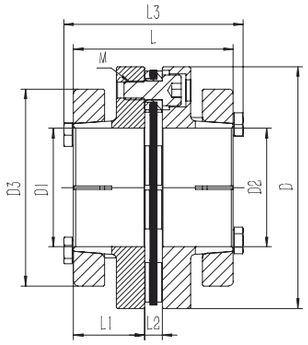
Product model description

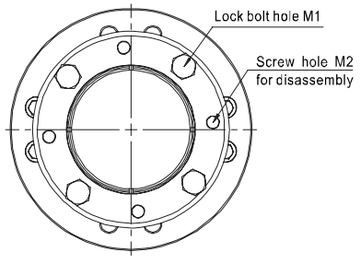
SMPS-68T - 20x22

Product model specification　　Shaft bore

DMPS-T Series

Diaphragm-expansion sleeve type-coupling (carbon steel)





Specifications

Model	D	D3	L	L1	L2	L3	M	M1	M2	Screw tightening torque (N•M)
DMPS-56T	56	40 48	47.5	20	7.5	54.5	M5	M5	M5	6
DMPS-68T	68	44 53 63	60.1	26	8.1	67.1	M5	M5	M5	6
DMPS-82T	82	58 68 75	68.7	30	8.7	76.7	M8	M6	M6	13.7
DMPS-92T	92	58 68 78	69	30	9	77	M8	M6	M6	13.7
DMPS-102T	102	73 78 83	69	30	9	77	M8	M6	M6	13.7

D1/D2 Standard aperture

Model	Standard aperture												
DMPS-56T	10	11	12	14	15	16	17	18	19	20	22	24	25
DMPS-68T	16	18	19	20	22	24	25	28	30	32	35		
DMPS-82T	19	20	22	24	25	28	30	32	35	38	40		
DMPS-92T	20	22	24	25	28	30	32	35	38	40	42	45	
DMPS-102T	32	35	38	40	42	45	48	50					

Series of photos:

Performance parameter

Model	Max aperture (mm)	Rated torque (N.M)	Max torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
							radial deviation	angular deviation	axial deviation	
DMPS-56T	Φ25	75	150	9000	50000	4.2×10^{-5}	0.02	1.0	±0.2	464
DMPS-68T	Φ35	80	160	8500	52000	4.27×10^{-4}	0.02	1.0	±0.3	862
DMPS-82T	Φ40	130	260	6500	138000	1.48×10^{-3}	0.02	1.0	±0.55	1482
DMPS-92T	Φ45	195	390	5800	194000	2.0×10^{-3}	0.02	1.0	±0.60	1703
DMPS-102T	Φ50	325	650	5000	250000	3.68×10^{-3}	0.02	1.0	±0.74	1993

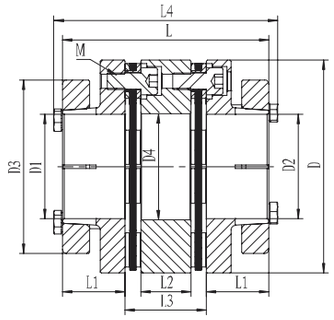
When ordering:

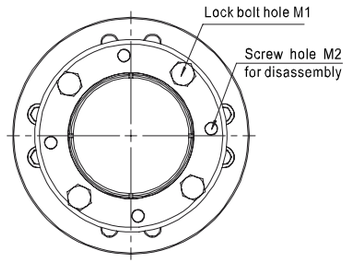
DMPS-68T - 20x22

Model — Shaft bore

SMPS-T Series

Double diaphragm-expansion sleeve type-coupling (carbon steel)





Specifications

Model	D	D3	D4	L	L1	L2	L3	L4	M	M1	M2	Screw tightening torque (N•M)
SMPS-56T	56	40 48	29	69	20	14	29	76	M5	M5	M5	6
SMPS-68T	68	44 53 63	36	82.2	26	14	30.2	89.2	M5	M5	M5	6
SMPS-82T	82	58 68 75	41	97.4	30	20	37.4	105.4	M8	M6	M6	13.7
SMPS-92T	92	58 68 78	47	98	30	20	38	106	M8	M6	M6	13.7
SMPS-102T	102	73 78 83	51	102	30	24	42	110	M8	M6	M6	13.7

D1/D2 Standard aperture

Model	Standard aperture												
SMPS-56T	10	11	12	14	15	16	17	18	19	20	22	24	25
SMPS-68T	16	18	19	20	22	24	25	28	30	32	35		
SMPS-82T	19	20	22	24	25	28	30	32	35	38	40		
SMPS-92T	20	22	24	25	28	30	32	35	38	40	42	45	
SMPS-102T	32	35	38	40	42	45	48	50					

Series of photos:

Performance parameter

Model	Max aperture (mm)	Rated torque (N.M)	Max torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
							radial deviation	angular deviation	axial deviation	
SMPS-56T	Φ25	75	150	9000	24000	6.1×10^{-5}	0.25	1.0	±0.6	686
SMPS-68T	Φ35	80	160	8500	25800	6.45×10^{-4}	0.25	1.0	±0.9	1222
SMPS-82T	Φ40	130	260	6500	72000	2.44×10^{-3}	0.25	1.0	±1.1	2172
SMPS- 92T	Φ45	195	390	5800	97000	3.1×10^{-3}	0.25	1.0	±1.2	2543
SMPS-102T	Φ50	325	650	5000	145000	5.28×10^{-3}	0.25	1.0	±1.4	3255

When ordering:

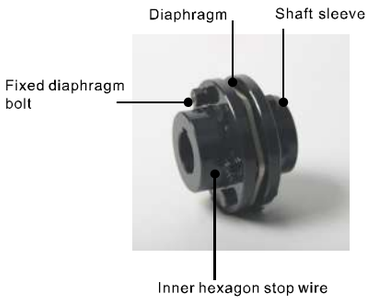
SMPS- 68 T - 20×22

Model — Shaft bore

HDJM-G Series

Coupling Single Diaphragm-Top wire type (Carbon Steel)

Structure



Material

Shaft sleeve	Carbon steel/blackening
	Stainless steel/electrolysis
Diaphragm	stainless steel
Gasket	Carbon steel nickel plated
Fixed diaphragm bolt	SCM435（12.9 class）
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Top wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environmenttransmission system
- Acid-base,warm and humid environment

Product model description

HDJM-126G-30x35

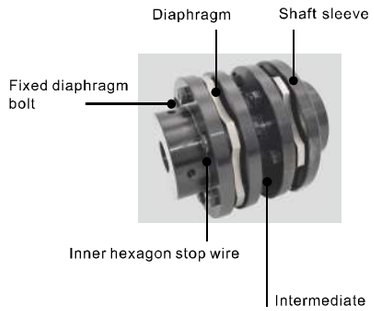
Product model specification　　Shaft bore

※ Remarks: keyway can be processed

HSJM-G Series

Coupling Double Diaphragm-Top wire type (Carbon Steel)

Structure



Material

Shaft sleeve	Carbon steel/blackening
	Stainless steel/electrolysis
Intermediate	Carbon steel/blackening
	Stainless steel/electrolysis
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragm compensates for angular and axial deviation
- Corrosion resistance
- Top wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precisionencoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environment transmission system
- Acid-base,warm and humid environment

Product model description

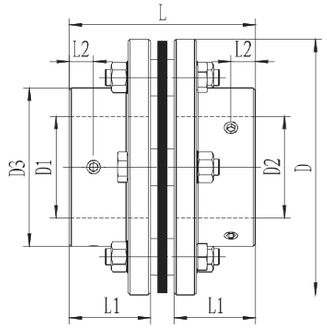
HDJM-126G-30x35

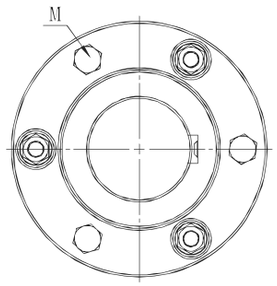
Product model specification　　Shaft bore

※ Remarks: keyway can be processed

HDJM-G

Single diaphragm-screw type-coupling (carbon steel)





Specifications

Model	D1.D2		D	L	D3	L1	L2	M
	Minimum	Maximum						
HDJM-104G	16	40	104	80	61	35	12	M8
HDJM-126G	19	50	126	91	78	40	12	M10
HDJM-144G	22	60	144	102.5	88	44	15	M10
HDJM-152G	22	70	152	102	104	45	15	M10
HDJM-178G	28	80	178	124	118	55	20	M12
HDJM-192G	32	85	192	144.8	126	65	25	M12
HDJM-225G	48	100	225	197	140	90	35	M16

Performance parameter

Model	Max aperture (mm)	Allowable torque (N.M)	Maximum speed (min-1)	Static torquerigidity (N.M/rad)	Moment of inertia ($KG·M^2$)	Allowable deviation		quality (g)
						angular deviation	axial deviation	
HDJM-104G	Φ40	250	12000	250000	2.6×10^{-3}	1	±1.4	2152
HDJM-126G	Φ50	450	11000	430000	6.5×10^{-3}	1	±1.6	3486
HDJM-144G	Φ60	800	9400	780000	9.9×10^{-3}	1	±1.8	5127
HDJM-152G	Φ70	1000	5900	1500000	12.6×10^{-3}	1	±0.4	4710
HDJM-178G	Φ80	1300	5100	2840000	26.88×10^{-3}	1	±0.5	7520
HDJM-192G	Φ85	2000	4700	3400000	43.82×10^{-3}	1	±0.5	12046
HDJM-225G	Φ100	5000	4000	5940000	102.53×10^{-3}	1	±0.6	18250

When ordering:

HDJM-126G-30x35

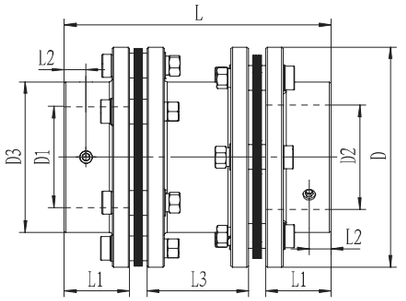
model — Aperture

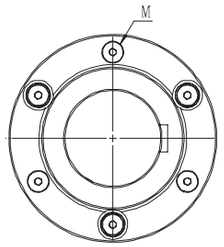
※ Keyway machining

When machining keyway on one side shafthole :HDJM-126G-30Kx35
When machining keyway on both sides shaft hole:HDJM-126G-30Kx35K

For keyway processing parameters, please refer to the keyway dimension table

Series of photos:





Specifications

Model	D1•D2		D	L	D3	L1	L2	L3	M
	Minimum	Maximum							
HSJM-104G	16	40	104	128	61	35	12	38	M8
HSJM-126G	19	50	126	143.6	78	40	12	41.6	M10
HSJM-144G	22	60	144	165	88	44	15	48	M10
HSJM-152G	22	70	152	184	104	45	15	70	M10
HSJM-178G	28	80	178	218	118	55	20	80	M12
HSJM-192G	32	85	192	260	126	65	25	100.4	M12
HSJM-225G	48	100	225	330	140	90	35	116	M16

Performance parameter

Model	Max aperture (mm)	Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial deviation	
HSJM-104G	Φ40	250	10000	125000	4.6×10^{-3}	0.6	2	±2.8	3300
HSJM-126G	Φ50	450	8000	215000	11.8×10^{-3}	0.8	2	±3.2	5800
HSJM-144G	Φ60	800	7000	390000	21.2×10^{-3}	0.9	2	±3.6	8600
HSJM-152G	Φ70	1000	5900	750000	21.87×10^{-3}	1.4	2	±0.8	8720
HSJM-178G	Φ80	1300	5100	1420000	51.07×10^{-3}	1.6	2	±1.0	13940
HSJM-192G	Φ85	2000	4700	170000	81.58×10^{-3}	2.0	2	±1.0	19510
HSJM-225G	Φ100	5000	4000	2970000	176.91×10^{-3}	2.3	2	±1.2	30270

When ordering:

HSJM-126G-30x35

model — Aperture

※ Keyway machining

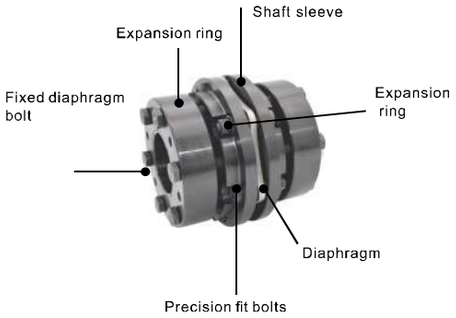
When machining keyway on one side shafthole :HDJM-126G-30Kx35
When machining keyway on both sides shaft hole:HDJM-126G-30Kx35K

For keyway processing parameters, please refer to the keyway dimension table

HDJM-T Series

Coupling Single Diaphragm-expansion type (Carbon Steel)

Structure



Material

Shaft sleeve	Carbon steel
	blackening
Expansion ring	Carbon steel
	blackening
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Precision fit bolts	SCM435（12.9 class）
	Ferric oxide protective film（black）
Hexagonal nut	SCM435(12.9 class)
	Ferric oxide protective film（black）
Hexagonal bolts	SCM435(12.9 class)
	Ferric oxide protective film（black）

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Expansion fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- XY axis sliding table, indexing table
- Dust-free,vacuum environmenttransmission system
- Acid-base,warm and humid environment

Product model description

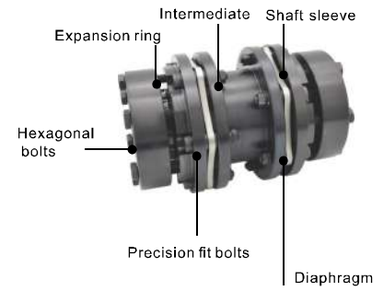
HDJM-178T-60x70

Product model specification　　Shaft bore

HSJM-T Series

Coupling Double Diaphragm-expansion Type (Carbon Steel)

Structure



Material

Shaft sleeve	Carbon steel
	blackening
Intermediate	Carbon steel
	blackening
Expansion ring	Carbon steel
	blackening
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Precision fit bolts	SCM435（12.9 class）
	Ferric oxide protective film（black）
Hexagonal nut	SCM435(12.9 class)
	Ferric oxide protective film（black）
Hexagonal bolts	SCM435(12.9 class)
	Ferric oxide protective film（black）

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragm compensates for angular and axial deviation
- Corrosion resistance
- Expansion fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- XY axis sliding table, indexing table
- Dust-free,vacuum environment transmission system
- Acid-base,warm and humid environment

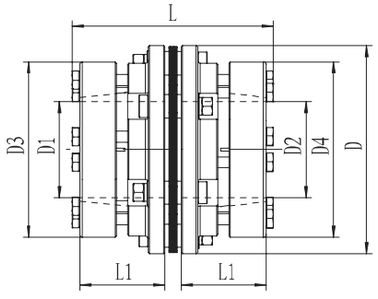
Product model description

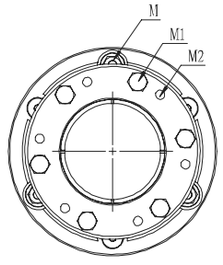
HSJM-178T-60x70

Product model specification　　Shaft bore

HDJM-T Series

Single diaphragm-Expansion type-coupling (carbon steel)





Specifications

Model	D1•D2	D	L	D3•D4	L1	M	M1	M2
HDJM-104T	32-42	104	98	68/73	40	M8	M6	M6
HDJM-126T	35-50	126	122.3	68/73/78/83	50	M10	M8	M8
HDJM-144T	35-60	144	143.1	83/88/98/108	59	M10	M8	M8
HDJM-152T	38-70	152	146.6	108/128	62	M10	M8	M8
HDJM-178T	38-80	178	154.6	108/128/148	65	M12	M8	M8
HDJM-192T	38-85	192	161.6	108/128/148	67	M12	M10	M10
HDJM-225T	38-100	225	195.8	108/128/148/168	83	M16	M10	M10

Performance parameter

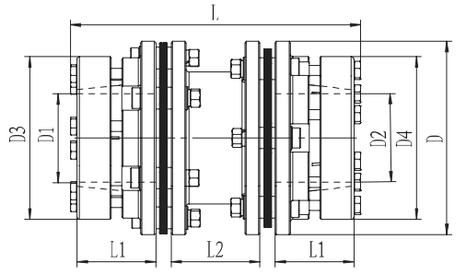
Model	Max aperture (mm)	Allowable torque (N.M)	Maximum speed (min-1)	Static torquerigidity (N.M/rad)	Moment of inertia (KG·M^2)	Allowable deviation		quality (g)
						angular deviation	axial deviation	
HDJM-104T	Φ42	250	5000	250000	3.2×10^{-3}	1	±1.4	2535
HDJM-126T	Φ50	450	5000	430000	8.9×10^{-3}	1	±1.6	4848
HDJM-144T	Φ60	800	5000	780000	1.7×10^{-2}	1	±1.8	6915
HDJM-152T	Φ70	1000	5900	1500000	2.6×10^{-2}	1	±0.4	8980
HDJM-178T	Φ80	1300	5100	2840000	5.1×10^{-2}	1	±0.5	13031
HDJM-192T	Φ85	2000	4700	3400000	6.1×10^{-2}	1	±0.5	14080
HDJM-225T	Φ100	5000	4000	5940000	1.2×10^{-1}	1	±0.6	20240

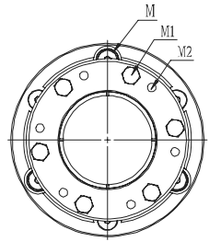
When ordering: **HDJM - 178T - 60×70**

Model — Shaft bore

HSJM-T Series

Double Diaphragm-Expansion Type-Coupling (Carbon Steel)





Specifications

Model	D1•D2	D	L	D3•D4	L1	L2	M	M1	M2
HSJM-104T	32-42	104	146	68/73	40	38	M8	M6	M6
HSJM-126T	35-50	126	175.6	68/73/78/83	50	41.6	M10	M8	M8
HSJM-144T	35-60	144	205.6	83/88/98/108	59	48	M10	M8	M8
HSJM-152T	38-70	152	228.6	108/128	62	70	M10	M8	M8
HSJM-178T	38-80	178	248.6	108/128/148	65	80	M12	M8	M8
HSJM-192T	38-85	192	276.8	108/128/148	67	100.4	M12	M10	M10
HSJM-225T	38-100	225	328.8	108/128/148/168	83	116	M16	M10	M10

Performance parameter

Model	Max aperture (mm)	Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial deviation	
HSJM-104T	Φ42	250	5000	125000	5.3×10^{-3}	0.6	2	±2.8	4084
HSJM-126T	Φ50	450	5000	215000	1.4×10^{-2}	0.8	2	±3.2	7447
HSJM-144T	Φ60	800	5000	390000	2.7×10^{-2}	0.9	2	±3.6	10630
HSJM-152T	Φ70	1000	5900	750000	4.1×10^{-2}	1.4	2	±0.8	13908
HSJM-178T	Φ80	1300	5100	1420000	8.0×10^{-2}	1.6	2	±1.0	20330
HSJM-192T	Φ85	2000	4700	1700000	1.0×10^{-1}	2.0	2	±1.0	23845
HSJM-225T	Φ100	5000	4000	2970000	1.9×10^{-1}	2.3	2	±1.2	32751

When ordering: **HSJM - 178T - 60×70**

Model — Shaft bore

DMPA-GC Series

Coupling single diaphragm-(Top wire type + clamping type) (high-strength aluminum alloy)

Structure

Material

(Top wire type) Shaft sleeve	High-strength aluminum alloy
	Anodizing treatment
(clamping type) Shaft sleeve	High-strength aluminum alloy
	Anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket set bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Top wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environmenttransmission system
- Acid-base,warm and humid environment

Product model description

DMPA-68GC-20 x22

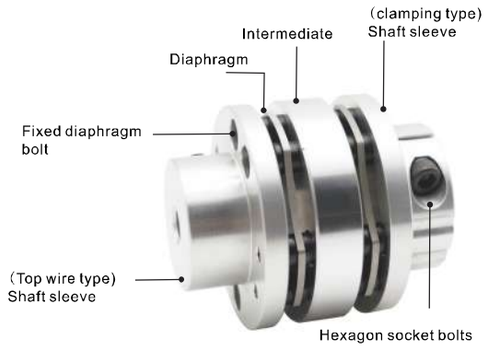
Product model specification　　Shaft bore

※ Remarks: keyway can be processed

SMPA-GC Series

Coupling double diaphragm-(Top wire type + clamping type) (high-strength aluminum alloy)

Structure



Material

(Top wire type) Shaft sleeve	High-strength aluminum alloy
	Anodizing treatment
(clamping type) Shaft sleeve	High-strength aluminum alloy
	Anodizing treatment
Intermediate	High-strength aluminum alloy
	Anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket set bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragm compensates for angular and axial deviation
- Corrosion resistance
- Top wire fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precisionencoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environment transmission system
- Acid-base,warm and humid environment

Product model description

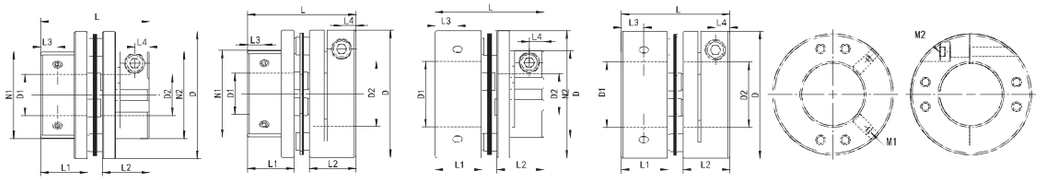
SMPA-68GC-20x22

Product model specification　　Shaft bore

※ Remarks: keyway can be processed

DMPA-GC Series

Single Diaphragm - Top wire type + Clamping type - Coupling (High Strength Aluminum Alloy)



Shape 1
(small aperture* small aperture)

Shape 2
(small aperture * large aperture)

Shape 3
(large aperture *large aperture)

Shape 4
(large aperture *large aperture)

Specifications

Model	D1/D2 Aperture range		D	L	N1 / N2	L1 / L2	L3	L4	M1	M2	Screw tightening torque	
	Small aperture	Big aperture									M1	M2
DMPA-56GC	10-20	22-30	56	47.5	38	20	10	6.5	M5	M5	5	5
DMPA-68GC	10-22	24-35	68	58.1	46.5	25	12	7.75	M6	M6	8	8
DMPA-82GC	14-28	30-42	82	68.7	54	30	14	9	M8	M8	20	28
DMPA-92GC	19-35	38-45	92	69	60	30	14	9	M8	M8	20	28
DMPA-102GC	20-40	42-55	102	69	68	30	15	9	M10	M8	40	28

D1/D2 Standard aperture

Model		10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
DMPA-56GC	D1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
	D2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
DMPA-68GC	D1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	D2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
DMPA-82GC	D1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	D2				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
DMPA-92GC	D1									•	•	•	•	•	•	•	•	•	•	•	•	•		
	D2									•	•	•	•	•	•	•	•	•	•	•	•	•		
DMPA-102GC	D1										•	•	•	•	•	•	•	•	•	•	•	•	•	•
	D2										•	•	•	•	•	•	•	•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Max aperture (mm)		Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
	D1	D2					radial deviation	angular deviation	axial deviation	
DMPA-56GC	Φ30	Φ30	32	7700	22400	1.17×10^{-4}	0.02	0.5	±0.3	235
DMPA-68GC	Φ35	Φ35	60	6500	33600	3.03×10^{-4}	0.02	0.5	±0.3	421
DMPA-82GC	Φ42	Φ42	100	5500	78000	8.13×10^{-4}	0.02	0.5	±0.3	783
DMPA-92GC	Φ45	Φ45	150	5500	89000	1.27×10^{-3}	0.02	0.5	±0.3	986
DMPA-102GC	Φ55	Φ55	250	4000	156000	1.86×10^{-3}	0.02	0.5	±0.5	1119

When ordering:

DMPA- 68GC - 20 × 22

Product model specification — Shaft bore

※ Keyway machining

When machining keyway on one side shaft hole :DMPA-68C-20Kx30
When machining keyway on two sides shaft hole:DMPA-68C-20Kx30K

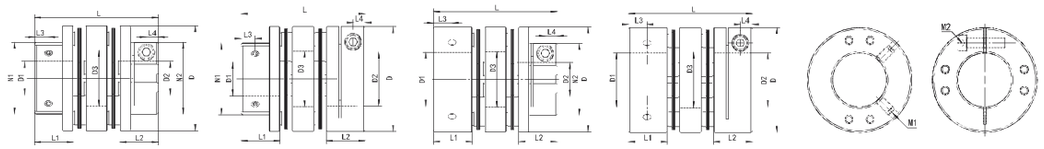
For keyway processing parameters, please refer to the keyway dimension table

※ Shape change service:

If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

SMPA-GC Series

Double Diaphragm - Top wire type + Clamping type - Coupling (High Strength Aluminum Alloy)



Shape 1
(small aperture* small aperture)

Shape 2
(small aperture * large aperture)

Shape 3
(large aperture *large aperture)

Shape 4
(large aperture *large aperture)

Specifications

Model	D1/D2 Aperture range		D	L	N1 / N2	L1 / L2	L3	L4	M1	M2	Screw tightening torque	
	Small aperture	Big aperture									M1	M2
SMPA-56GC	10-20	22-30	56	69	38	20	10	6.5	M5	M5	5	5
SMPA-68GC	10-22	24-35	68	80.2	46.5	25	12	7.75	M6	M6	8	8
SMPA-82GC	14-28	30-42	82	97.4	54	30	14	9	M8	M8	20	28
SMPA-92GC	19-35	38-45	92	98	60	30	15	9	M8	M8	20	28
SMPA-102GC	20-40	42-55	102	98	68	30	15	9	M10	M8	40	28

D1/D2 Standard aperture

Model		10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
SMPA-56GC	D1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
	D2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
SMPA-68GC	D1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	D2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
SMPA-82GC	D1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	D2				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
SMPA-92GC	D1									•	•	•	•	•	•	•	•	•	•	•	•	•		
	D2									•	•	•	•	•	•	•	•	•	•	•	•	•		
SMPA-102GC	D1										•	•	•	•	•	•	•	•	•	•	•	•	•	•
	D2										•	•	•	•	•	•	•	•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Max aperture (mm)		Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
	D1	D2					radial deviation	angular deviation	axial deviation	
SMPA-56GC	Φ30	Φ30	32	7700	1000	1.74×10^{-4}	0.2	1.0	±0.6	348
SMPA-68GC	Φ35	Φ35	60	6500	14000	4.19×10^{-4}	0.2	1.0	±0.6	583
SMPA-82GC	Φ42	Φ42	100	5500	35000	1.2×10^{-3}	0.2	1.0	±0.6	1162
SMPA-92GC	Φ45	Φ45	150	5500	40000	1.83×10^{-3}	0.2	1.0	±0.6	1418
SMPA-102GC	Φ55	Φ55	250	4000	70000	2.69×10^{-3}	0.25	1.0	±0.9	1614

When ordering:

SMPA- 68GC - 20 × 22

Product model specification — Shaft bore

※ Keyway machining

When machining keyway on one side shaft hole :DMPA-68C-20Kx30
When machining keyway on two sides shaft hole:DMPA-68C-20Kx30K

For keyway processing parameters, please refer to the keyway dimension table

※ Shape change service:

If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

DMPS-G Series

Coupling Single Diaphragm - (Top wire type + Clamping type) - (Carbon Steel)

Structure

Material

(Top wire type) Shaft sleeve	Carbon steel/blackening
	stainless steel
(clamping type) Shaft sleeve	Carbon steel/blackening
	stainless steel
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435（12.9 class）
	Ferric oxide protective film （black）
Hexagonal nut	SCM435(12.9 class)
	Ferric oxide protective film （black）
Hexagonal bolts	SCM435(12.9 class)
	Ferric oxide protective film （black）

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Top wire type+clamping type fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environmenttransmission system
- Acid-base,warm and humid environment

Product model description

DMPS - 68GC - 20 ×22

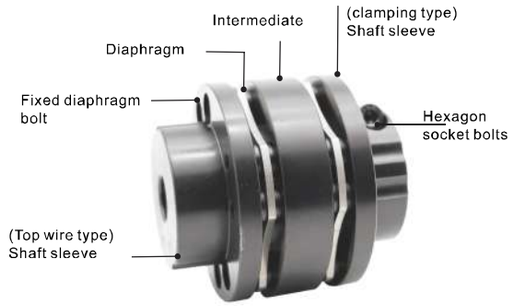
Product model specification　　Shaft bore

※ Remarks: keyway can be processed

SMPS-GC Series

Coupling Double Diaphragm - (Top wire type + Clamping type) - (Carbon Steel)

Structure



Material

(Top wire type) Shaft sleeve	Carbon steel/blackening
	stainless steel
(clamping type) Shaft sleeve	Carbon steel/blackening
	stainless steel
Intermediate	Carbon steel/blackening
	stainless steel
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435（12.9 class）
	Ferric oxide protective film （black）
Hexagon socket set bolt	SCM435(12.9 class)
	Ferric oxide protective film （black）
Hexagon socket bolts	SCM435(12.9 class)
	Ferric oxide protective film （black）

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragm compensates for angular and axial deviation
- Corrosion resistance
- Top wire type+clamping type fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precisionencoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environment transmission system
- Acid-base,warm and humid environment

Product model description

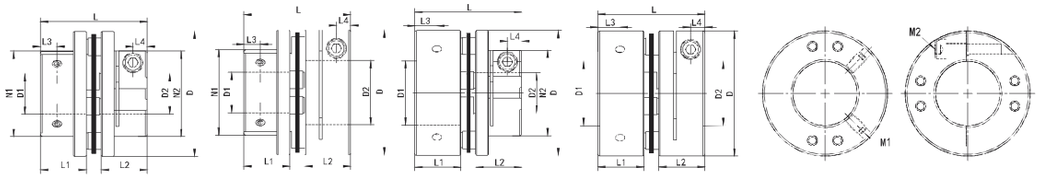
SMPS - 68GC - 20 ×22

Product model specification　　Shaft bore

※ Remarks: keyway can be processed

DMPS-GC Series

Single Diaphragm - (Top wire type + Clamping type)-Coupling - (Carbon Steel)



Shape 1 (small aperture* small aperture)

Shape 2 (small aperture * large aperture)

Shape 3 (large aperture *large aperture)

Shape 4 (large aperture *large aperture)

Specifications

Model	D1/D2 Aperture range		D	L	N1 / N2	L1 / L2	L3	L4	M1	M2	Screw tightening torque	
	Small aperture	Big aperture									M1	M2
DMPS-56GC	10-20	22-30	56	47.5	38	20	10	6.5	M5	M5	5	5
DMPS-68GC	10-22	24-35	68	58.1	46.5	25	12	7.75	M6	M6	8	8
DMPS-82GC	14-28	30-42	82	68.7	54	30	14	9	M8	M8	20	28
DMPS-92GC	19-35	38-45	92	69	60	30	14	9	M8	M8	20	28
DMPS-102GC	20-40	42-55	102	69	68	30	15	9	M10	M8	40	28

D1/D2 Standard aperture

Model		10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
DMPS-56GC	D1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
	D2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
DMPS-68GC	D1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	D2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
DMPS-82GC	D1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	D2				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
DMPS-92GC	D1									•	•	•	•	•	•	•	•	•	•	•	•	•		
	D2									•	•	•	•	•	•	•	•	•	•	•	•	•		
DMPS-102GC	D1										•	•	•	•	•	•	•	•	•	•	•	•	•	•
	D2										•	•	•	•	•	•	•	•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Max aperture (mm)		Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
	D1	D2					radial deviation	angular deviation	axial deviation	
DMPS-56GC	Φ30	Φ30	38.4	5000	22400	2.7×10^{-4}	0.02	0.5	±0.3	535
DMPS-68GC	Φ35	Φ35	80	5000	33600	7.38×10^{-4}	0.02	0.5	±0.3	1015
DMPS-82GC	Φ42	Φ42	130	4000	78000	1.87×10^{-3}	0.02	0.5	±0.3	1772
DMPS-92GC	Φ45	Φ45	195	4000	89000	3.02×10^{-3}	0.02	0.5	±0.3	2314
DMPS-102GC	Φ55	Φ55	325	4000	156000	4.43×10^{-3}	0.02	0.5	±0.5	2655

When ordering:

DMPS- 68GC - 20 × 22

Product model specification — Shaft bore

※ Keyway machining

When machining keyway on one side shaft hole :DMPA-68C-20Kx30
When machining keyway on two sides shaft hole:DMPA-68C-20Kx30K

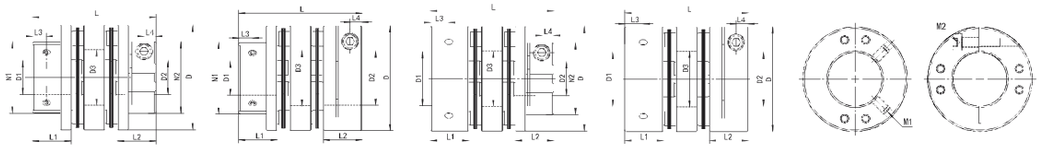
For keyway processing parameters, please refer to the keyway dimension table

※ Shape change service:

If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

SMPS-GC Series

Double Diaphragm - (Top wire type + Clamping type)-Coupling - (Carbon Steel)



Shape 1
(small aperture* small aperture)

Shape 2
(small aperture * large aperture)

Shape 3
(large aperture *large aperture)

Shape 4
(large aperture *large aperture)

Specifications

Model	D1/D2 Aperture range		D	L	N1 / N2	D3	L1 / L2	L3	L4	M1	M2	Screw tightening torque	
	Small aperture	Big aperture										M1	M2
SMPS-56GC	10-20	22-30	56	69	38	31	20	10	6.5	M5	M5	5	5
SMPS-68GC	10-22	24-35	68	80.2	46.5	36	25	12	7.75	M6	M6	8	8
SMPS-82GC	14-28	30-42	82	97.4	54	42.5	30	14	9	M8	M8	20	28
SMPS-92GC	19-35	38-45	92	98	60	47	30	15	9	M8	M8	20	28
SMPS-102GC	20-40	42-55	102	98	68	56	30	15	9	M10	M8	40	28

D1/D2 Standard aperture

Model		10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
SMPS-56GC	D1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
	D2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
SMPS-68GC	D1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
	D2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
SMPS-82GC	D1				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	D2				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
SMPS-92GC	D1									●	●	●	●	●	●	●	●	●	●	●	●	●		
	D2									●	●	●	●	●	●	●	●	●	●	●	●	●		
SMPS-102GC	D1										●	●	●	●	●	●	●	●	●	●	●	●	●	●
	D2										●	●	●	●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Max aperture (mm)		Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
	D1	D2					radial deviation	angular deviation	axial deviation	
SMPS-56GC	Φ30	Φ30	38.4	5000	11200	3.75×10^{-4}	0.2	1.0	±0.6	744
SMPS-68GC	Φ35	Φ35	80	5000	16800	9.72×10^{-4}	0.2	1.0	±0.6	1335
SMPS-82GC	Φ42	Φ42	130	4000	39000	2.6×10^{-3}	0.2	1.0	±0.6	2462
SMPS-92GC	Φ45	Φ45	195	4000	44500	4.13×10^{-3}	0.2	1.0	±0.6	3161
SMPS-102GC	Φ55	Φ55	325	4000	78000	6.1×10^{-3}	0.25	1.0	±0.9	3645

When ordering:

SMPS- 68GC - 20 × 22

Product model specification — Shaft bore

※ Keyway machining

When machining keyway on one side shaft hole :DMPA-68C-20Kx30
When machining keyway on two sides shaft hole:DMPA-68C-20Kx30K

For keyway processing parameters, please refer to the keyway dimension table

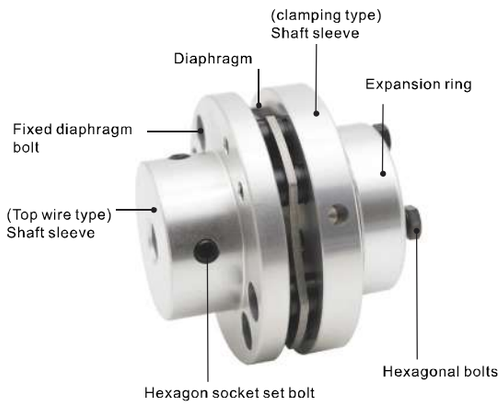
※ Shape change service:

If you wish to change the standard coupling shape 1 and shape 2 (stepped sleeve) to shape 3 (straight sleeve), please contact our customer service for consultation.

DMPA-GT Series

Coupling single diaphragm - (top wire type + expansion type) (high strength aluminum alloy)

Structure



Material

(Top wire type) Shaft sleeve	High strength aluminum alloy
	anodizing treatment
(clamping type) Shaft sleeve	High strength aluminum alloy
	anodizing treatment
Expansion ring	High strength aluminum alloy
	anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket set bolt	SCM435(12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolts	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Top wire type+clamping type fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environmenttransmission system
- Acid-base,warm and humid environment

Product model description

DMPA-68GT - 20x22

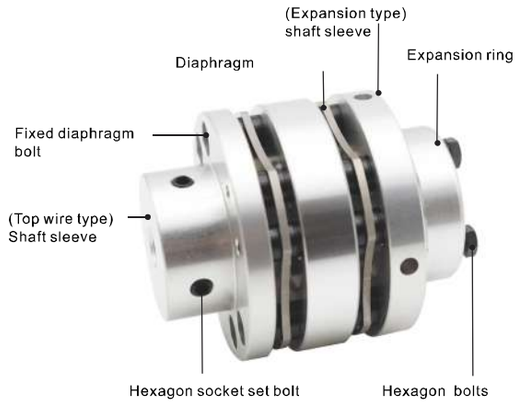
Product model specification　　Shaft bore

※ Remarks: keyway can be processed

SMPA-GT Series

series coupling Double diaphragm - (top wire type + expansion type) (high strength aluminum alloy)

Structure



Material

(Top wire type) Shaft sleeve	High strength aluminum alloy
	anodizing treatment
(clamping type) Shaft sleeve	High strength aluminum alloy
	anodizing treatment
Expansion ring	High strength aluminum alloy
	anodizing treatment
Intermediate	High strength aluminum alloy
	anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435(12.9 level)
	Ferric oxide protective film (black)
Hexagon socket set bolt	SCM435(12.9 level)
	Ferric oxide protective film (black)
Hexagon socket bolts	SCM435(12.9 level)
	Ferric oxide protective film (black)

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragm compensates for angular and axial deviation
- Corrosion resistance
- Top wire type+clamping type fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precisionencoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environment transmission system
- Acid-base,warm and humid environment

Product model description

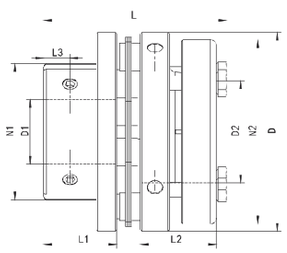
SMPA-68GT - 20x22

Product model specification　　Shaft bore

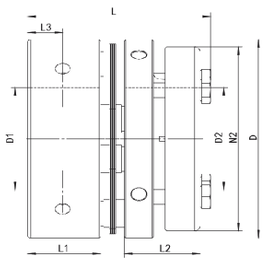
※ Remarks: keyway can be processed

DMPA-GT Series

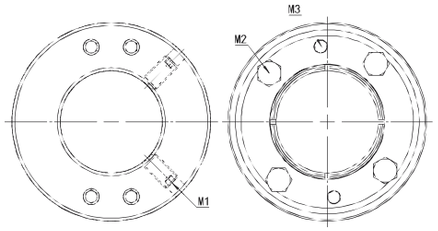
Coupling single diaphragm - (top wire type + expansion type) (high strength aluminum alloy)



Shape 1(D1 small aperture)



shape2(D1 big aperture)



Specifications

Model	D1 Aperture range		D2 Aperture range	D	L	N1	N2	L1	L2	L3	M1	M2/M3	Screw tightening torque	
	Small aperture	Big aperture											M1	M2
DMPA-56GT	10-20	22-30	10-25	56	51	38	40 48	20	20	10	M5	M5	5	6
DMPA-68GT	10-22	24-35	16-35	68	62.6	46.5	44 53	25	26	12	M6	M5	8	6
DMPA-82GT	14-28	30-42	19-40	82	72.7	54	58 68 75	30	30	14	M8	M6	20	13.7
DMPA-92GT	19-35	38-45	20-45	92	73	60	58 68 78	30	30	15	M8	M6	20	13.7
DMPA-102GT	20-40	42-55	32-50	102	73	68	73 78 83	30	30	15	M10	M6	40	13.7

D1/D2 Standard aperture

Model		10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
DMPA-56GT	D1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
	D2	●	●	●	●	●	●	●	●	●	●	●	●	●										
DMPA-68GT	D1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
	D2						●	●	●	●	●	●	●	●	●	●	●	●						
DMPA-82GT	D1				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	D2									●	●	●	●	●	●	●	●	●	●	●				
DMPA-92GT	D1									●	●	●	●	●	●	●	●	●	●	●	●	●		
	D2										●	●	●	●	●	●	●	●	●	●	●	●		
DMPA-102GT	D1										●	●	●	●	●	●	●	●	●	●	●	●	●	●
	D2																●	●	●	●	●	●	●	

Series of photos:

Performance parameter

Model	Max aperture (mm)		Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable			quality (g)
	D1	D2					radial deviation	angular deviation	axial deviation	
DMPA-56GT	Φ30	Φ30	32	7700	20000	1.07×10^{-4}	0.02	0.5	±0.3	232
DMPA-68GT	Φ35	Φ25	60	6500	28000	2.85×10^{-4}	0.02	0.5	±0.3	407
DMPA-82GT	Φ42	Φ40	100	5500	70000	7.53×10^{-4}	0.02	0.5	±0.3	752
DMPA-92GT	Φ45	Φ45	150	5500	80000	1.1×10^{-3}	0.02	0.5	±0.3	895
DMPA-102GT	Φ55	Φ50	250	4000	1 40000	1.59×10^{-3}	0.02	0.5	±0.5	1015

When ordering:

DMPA- 68GT - 20 × 22

Product model specification — Shaft bore

※ Keyway machining

When processing the keyway on the D1 side shaft hole:DMPA-68GT-20Kx22

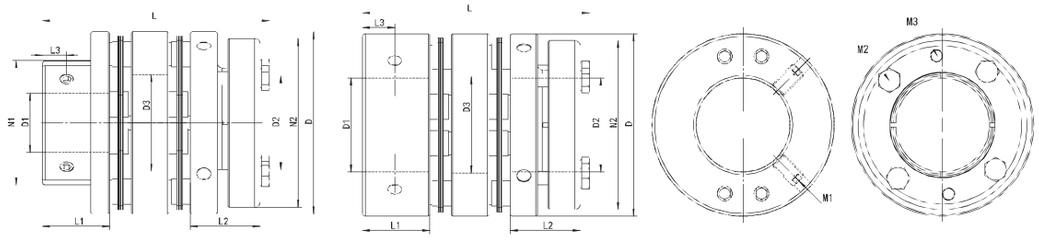
For keyway processing parameters, please refer to the keyway dimension table

※ Shape change service:

If you wish to change the standard coupling profile 1 (stepped sleeve) to profile 2 (straight sleeve)

SMPA-GT Series

Double diaphragm-top wire type + expansion type-coupling (high strength aluminum alloy)



Shape 1(D1 small aperture)　　shape2(D1 big aperture)

Specifications

Model	D1 Aperture range		D2 Aperture range	D	L	N1	N2	D3	L1	L2	L3	M1	M2/M3	Screw tightening torque	
	Small aperture	Big aperture												M1	M2
SMPA-56GT	10-20	22-30	10-25	56	72.5	38	40 48	31	20	20	10	M5	M5	5	6
SMPA-68GT	10-22	24-35	16-35	68	84.7	46.5	44 53 63	36	25	26	12	M6	M5	8	6
SMPA-82GT	14-28	30-42	19-40	82	101.4	54	58 68 75	42.5	30	30	14	M8	M6	20	13.7
SMPA-92GT	19-35	38-45	20-45	92	102	60	58 68 78	47	30	30	15	M8	M6	20	13.7
SMPA-102GT	20-40	42-55	32-50	102	106	68	73 78 83	56	30	30	15	M10	M6	40	13.7

D1/D2 Standard aperture

Model		10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
SMPA-56GT	D1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
	D2	•	•	•	•	•	•	•	•	•	•	•	•	•										
SMPA-68GT	D1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	D2						•	•	•	•	•	•	•	•	•	•	•	•						
SMPA-82GT	D1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	D2									•	•	•	•	•	•	•	•	•	•	•				
SMPA-92GT	D1									•	•	•	•	•	•	•	•	•	•	•	•	•		
	D2										•	•	•	•	•	•	•	•	•	•	•	•		
SMPA-102GT	D1										•	•	•	•	•	•	•	•	•	•	•	•	•	•
	D2																•	•	•	•	•	•	•	

Series of photos:

Performance parameter

Model	Max aperture (mm)		Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable			quality (g)
	D1	D2					radial deviation	angular deviation	axial deviation	
SMPA-56GT	Φ30	Φ25	32	7700	20000	1.64×10^{-4}	0.2	1.0	±0.6	345
SMPA-68GT	Φ35	Φ35	60	6500	28000	4.0×10^{-4}	0.2	1.0	±0.6	568
SMPA-82GT	Φ42	Φ40	100	5500	70000	1.14×10^{-3}	0.2	1.0	±0.6	1131
SMPA-92GT	Φ45	Φ45	150	5500	80000	1.66×10^{-3}	0.2	1.0	±0.6	1327
SMPA-102GT	Φ55	Φ50	250	4000	140000	2.54×10^{-3}	0.25	1.0	±0.9	1584

When ordering:

SMPA- 68GT - 20 × 22

Product model specification　　Shaft bore

※ Keyway machining

When processing the keyway on the D1 side shaft hole:SMPA-68GT-20Kx22

For keyway processing parameters, please refer to the keyway dimension table

※ Shape change service:

If you wish to change the standard coupling profile 1 (stepped sleeve) to profile 2 (straight sleeve)

DMPS-GT Series

Coupling single diaphragm - (top wire type + expansion type) (carbon steel)

Structure

Material

(Top wire type) Shaft sleeve	Carbon steel/blackening
	stainless steel
(clamping type) Shaft sleeve	Carbon steel/blackening
	stainless steel
Expansion ring	Carbon steel/blackening
	stainless steel
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket set bolt	SCM435(12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolts	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Top wire type+clamping type fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environmenttransmission system
- Acid-base,warm and humid environment

Product model description

DMPS-68GT - 20x22

Product model specification Shaft bore

※ Remarks: keyway can be processed

SMPS-GC Series

Coupling Double Diaphragm - (Top wire type + Clamping type) - (Carbon Steel)

Structure

Material

(Top wire type) Shaft sleeve	Carbon steel/blackening
	stainless steel
(clamping type) Shaft sleeve	Carbon steel/blackening
	stainless steel
Expansion ring	Carbon steel/blackening
	stainless steel
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket set bolt	SCM435(12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolts	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragm compensates for angular and axial deviation
- Corrosion resistance
- Top wire type+clamping type fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precisionencoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environment transmission system
- Acid-base,warm and humid environment

Product model description

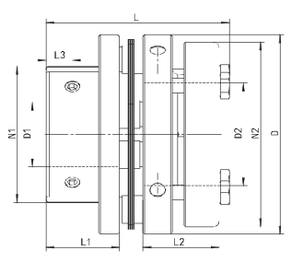
SMPS-68GT - 20x22

Product model specification Shaft bore

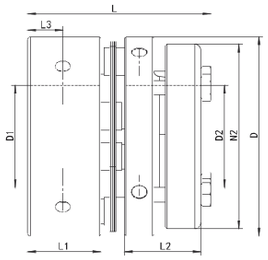
※ Remarks: keyway can be processed

DMPS-GT Series

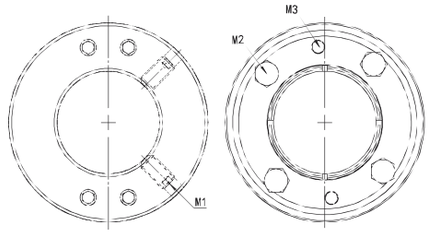
Single diaphragm - top screw + expansion type - coupling (carbon steel)



Shape 1(D1 small aperture)



shape2(D1 big aperture)



Specifications

Model	D1 Aperture range		D2 Aperture range	D	L	N1	N2	L1	L2	L3	M1	M2/M3	Screw tightening torque	
	Small aperture	Big aperture											M1	M2
DMPS-56GT	10-20	22-30	10-25	56	51	38	40 48	20	20	10	M5	M5	5	6
DMPS-68GT	10-22	24-35	16-35	68	62.6	46.5	44 53 63	25	26	12	M6	M5	8	6
DMPS-82GT	14-28	30-42	19-40	82	72.7	54	58 68 75	30	30	14	M8	M6	20	13.7
DMPS-92GT	19-35	38-45	20-45	92	73	60	58 68 78	30	30	15	M8	M6	20	13.7
DMPS-102GT	20-40	42-55	32-50	102	73	68	73 78 83	30	30	15	M10	M6	40	13.7

D1/D2 Standard aperture

Model		10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
DMPS-56GT	D1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
	D2	●	●	●	●	●	●	●	●	●	●	●	●	●										
DMPS-68GT	D1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
	D2						●	●	●	●	●	●	●	●	●	●	●	●						
DMPS-82GT	D1				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	D2									●	●	●	●	●	●	●	●	●	●	●				
DMPS-92GT	D1									●	●	●	●	●	●	●	●	●	●	●	●	●		
	D2										●	●	●	●	●	●	●	●	●	●	●	●		
DMPS-102GT	D1										●	●	●	●	●	●	●	●	●	●	●	●	●	●
	D2																●	●	●	●	●	●	●	

Series of photos:

Performance parameter

Model	Max aperture (mm)		Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable			quality (g)
	D1	D2					radial deviation	angular deviation	axial deviation	
DMPS-56GT	Φ30	Φ25	38.4	5000	22400	2.33×10^{-4}	0.02	0.5	±0.3	502
DMPS-68GT	Φ35	Φ35	80	5000	33600	6.7×10^{-4}	0.02	0.5	±0.3	951
DMPS-82GT	Φ42	Φ40	130	4000	78000	1.68×10^{-3}	0.02	0.5	±0.3	1655
DMPS-92GT	Φ45	Φ45	195	4000	89000	2.54×10^{-3}	0.02	0.5	±0.3	2032
DMPS-102GT	Φ55	Φ50	325	4000	156000	3.67×10^{-3}	0.02	0.5	±0.5	2341

When ordering:

DMPS-68GT - 20x22

Product model specification — Shaft bore

※ Keyway machining

When processing the keyway on the D1 side shaft hole:DMPS-68GT-20Kx22

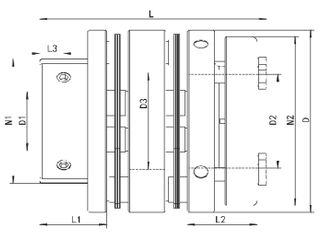
For keyway processing parameters, please refer to the keyway dimension table

※ Shape change service:

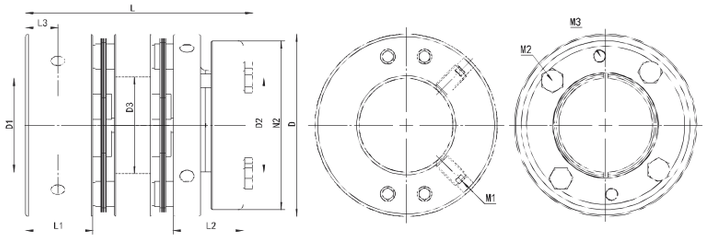
If you wish to change the standard coupling profile 1 (stepped sleeve) to profile 2 (straight sleeve)

SMPS-GT Series

Double Diaphragm - Top wire type + Expansion Type - Coupling (Carbon Steel)



Shape 1(D1 small aperture)



shape2(D1 big aperture)

Specifications

Model	D1 Aperture range		D2 Aperture range	D	L	N1	N2	D3	L1	L2	L3	M1	M2/M3	Screw tightening torque	
	Small aperture	Big aperture												M1	M2
SMPS-56GT	10-20	22-30	10-25	56	72.5	38	40 48	31	20	20	10	M5	M5	5	6
SMPS-68GT	10-22	24-35	16-35	68	84.7	46.5	44 53 63	36	25	26	12	M6	M5	8	6
SMPS-82GT	14-28	30-42	19-40	82	101.4	54	58 68 75	42.5	30	30	14	M8	M6	20	13.7
SMPS-92GT	19-35	38-45	20-45	92	102	60	58 68 78	47	30	30	15	M8	M6	20	13.7
SMPS-102GT	20-40	42-55	32-50	102	106	68	73 78 83	56	30	30	15	M10	M6	40	13.7

D1/D2 Standard aperture

Model		10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
SMPS-56GT	D1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
	D2	•	•	•	•	•	•	•	•	•	•	•	•	•										
SMPS-68GT	D1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	D2						•	•	•	•	•	•	•	•	•	•	•	•						
SMPS-82GT	D1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	D2									•	•	•	•	•	•	•	•	•	•	•				
SMPS-92GT	D1									•	•	•	•	•	•	•	•	•	•	•	•	•		
	D2										•	•	•	•	•	•	•	•	•	•	•	•		
SMPS-102GT	D1										•	•	•	•	•	•	•	•	•	•	•	•	•	•
	D2																•	•	•	•	•	•	•	

Series of photos:

Performance parameter

Model	Max aperture (mm)		Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable			quality (g)
	D1	D2					radial deviation	angular deviation	axial deviation	
SMPS-56GT	Φ30	Φ25	38.4	5000	11200	3.4×10^{-4}	0.2	1.0	±0.6	711
SMPS-68GT	Φ35	Φ35	80	5000	16800	9.04×10^{-4}	0.2	1.0	±0.6	1271
SMPS-82GT	Φ42	Φ40	130	4000	39000	2.4×10^{-3}	0.2	1.0	±0.6	2344
SMPS-92GT	Φ45	Φ45	195	4000	44500	3.65×10^{-3}	0.2	1.0	±0.6	2879
SMPS-102GT	Φ55	Φ50	325	4000	78000	5.6×10^{-3}	0.25	1.0	±0.9	3512

When ordering:

SMPS-68GT - 20x22

Product model specification — Shaft bore

※ Keyway machining

When processing the keyway on the D1 side shaft hole:SMPS-68GT-20Kx22

For keyway processing parameters, please refer to the keyway dimension table

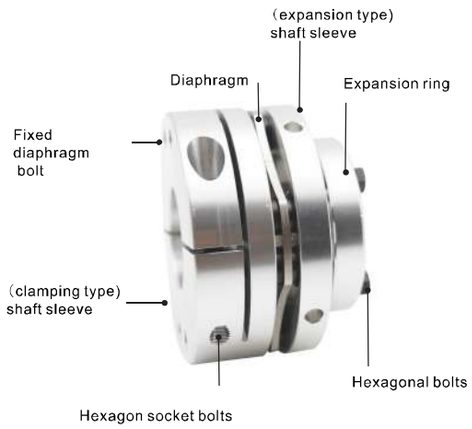
※ Shape change service:

If you wish to change the standard coupling profile 1 (stepped sleeve) to profile 2 (straight sleeve)

DMPA-CT Series

Coupling single diaphragm - (clamping type + expansion type) (high-strength aluminum alloy)

Structure



Material

(Top wire type) Shaft sleeve	High strength aluminum alloy
	anodizing treatment
(clamping type) Shaft sleeve	High strength aluminum alloy
	anodizing treatment
Expansion ring	High strength aluminum alloy
	anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket set bolt	SCM435(12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolts	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- clamping type+expansion type fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environmenttransmission system
- Acid-base,warm and humid environment

Product model description

DMPA-68CT - 20x22

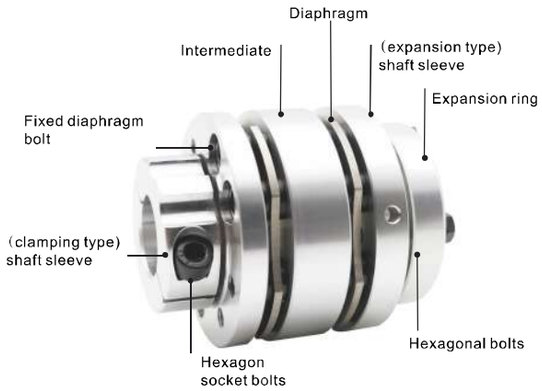
Product model specification Shaft bore

※ Remarks: keyway can be processed

SMPA-CT Series

Coupling double diaphragm - (clamping type + expansion type) (high-strength aluminum alloy)

Structure



Material

(Top wire type) Shaft sleeve	High strength aluminum alloy
	anodizing treatment
(clamping type) Shaft sleeve	High strength aluminum alloy
	anodizing treatment
Expansion ring	High strength aluminum alloy
	anodizing treatment
Intermediate	High strength aluminum alloy
	anodizing treatment
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435(12.9 level)
	Ferric oxide protective film (black)
Hexagon socket set bolt	SCM435(12.9 level)
	Ferric oxide protective film (black)
Hexagon socket bolts	SCM435(12.9 level)
	Ferric oxide protective film (black)

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragm compensates for angular and axial deviation
- Corrosion resistance
- clamping type+expansion type fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precisionencoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environment transmission system
- Acid-base,warm and humid environment

Product model description

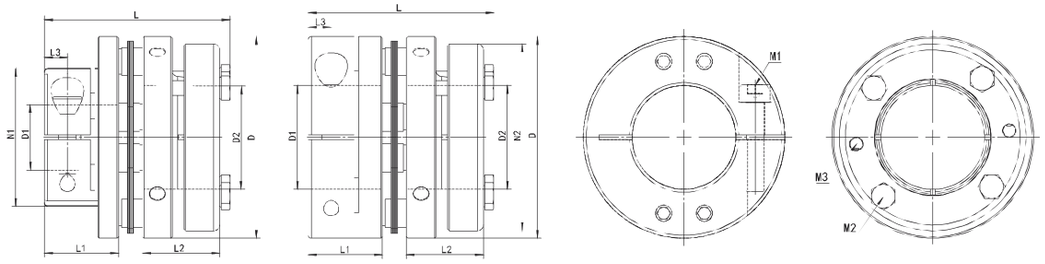
SMPA-68CT - 20x22

Product model specification Shaft bore

※ Remarks: keyway can be processed

DMPA-CT Series

Single diaphragm - clamping type+ expansion type - coupling (high strength aluminum alloy



Shape 1(D1 small aperture)　　shape2(D1 big aperture)

Specifications

Model	D1 Aperture range		D2 Aperture range	D	L	N1	N2	L1	L2	L3	M1	M2/M3	Screw tightening torque	
	Small aperture	Big aperture											M1	M2
DMPA-56CT	10-20	22-30	10-25	56	51	38	40 48	20	20	6.5	M5	M5	5	6
DMPA-68CT	10-22	24-35	16-35	68	62.6	46.5	44 53 63	25	26	7.75	M6	M5	8	6
DMPA-82CT	14-28	30-42	19-40	82	72.7	54	58 68 75	30	30	9	M8	M6	28	13.7
DMPA-92CT	19-35	38-45	20-45	92	73	60	58 68 78	30	30	9	M8	M6	28	13.7
DMPA-102CT	20-40	42-55	32-50	102	73	68	73 78 83	30	30	9	M8	M6	28	13.7

D1/D2 Standard aperture

Model		10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
DMPA-56CT	D1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
	D2	●	●	●	●	●	●	●	●	●	●	●	●	●										
DMPA-68CT	D1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
	D2						●	●	●	●	●	●	●	●	●	●	●	●						
DMPA-82CT	D1				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	D2									●	●	●	●	●	●	●	●	●	●	●				
DMPA-92CT	D1									●	●	●	●	●	●	●	●	●	●	●	●	●		
	D2										●	●	●	●	●	●	●	●	●	●	●	●		
DMPA-102CT	D1										●	●	●	●	●	●	●	●	●	●	●	●	●	●
	D2																●	●	●	●	●	●	●	

Series of photos:

Performance parameter

Model	Max aperture (mm)		Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable			quality (g)
	D1	D2					radial deviation	angular deviation	axial deviation	
DMPA-56CT	Φ30	Φ25	32	7700	2000	1.06×10^{-4}	0.02	0.5	±0.3	230
DMPA-68CT	Φ35	Φ35	60	6500	28000	2.82×10^{-4}	0.02	0.5	±0.3	402
DMPA-82CT	Φ42	Φ40	100	5500	70000	7.44×10^{-4}	0.02	0.5	±0.3	744
DMPA-92CT	Φ45	Φ45	150	5500	8000	1.9×10^{-3}	0.02	0.5	±0.3	883
DMPA-102CT	Φ55	Φ50	250	4000	140000	1.58×10^{-3}	0.02	0.5	±0.5	1004

When ordering:

DMPA-68CT - 20x22

Product model specification　　Shaft bore

※ Keyway machining

When processing the keyway on the D1 side shaft hole:DMPA-68CT-20Kx22

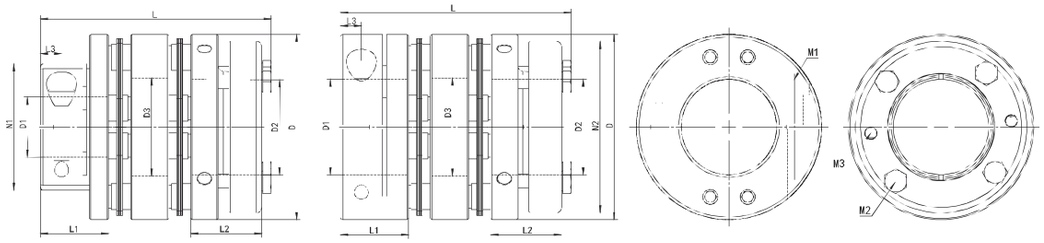
※ Shape change service:

If you wish to change the standard coupling profile 1 (stepped sleeve) to profile 2 (straight sleeve)

For keyway processing parameters, please refer to the keyway dimension table

SMPA-CT Series

Double diaphragm - clamping type + expansion type- coupling (high strength aluminum alloy)



Shape 1(D1 small aperture)　　shape2(D1 big aperture)

Specifications

Model	D1 Aperture range		D2 Aperture range	D	L	N1	N2	D3	L1	L2	L3	M1	M2/M3	Screw tightening torque	
	Small aperture	Big aperture												M1	M2
SMPA-56CT	10-20	22-30	10-25	56	72.5	38	40 48 44 53 63	31	20	20	6.5	M5	M5	5	6
SMPA-68CT	10-22	24-35	16-35	68	84.7	46.5		36	25	26	7.75	M6	M5	8	6
SMPA-82CT	14-28	30-42	19-40	82	101.4	54	58 68 75	42.5	30	30	9	M8	M6	28	13.7
SMPA-92CT	19-35	38-45	20-45	92	102	60	58 68 78	47	30	30	9	M8	M6	28	13.7
SMPA-102CT	20-40	42-55	32-50	1 02	106	68	73 78 83	56	30	30	9	M8	M6	28	13.7

D1/D2 Standard aperture

Model		10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
SMPA-56CT	D1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
	D2	•	•	•	•	•	•	•	•	•	•	•	•	•										
SMPA-68CT	D1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	D2						•	•	•	•	•	•	•	•	•	•	•	•						
SMPA-82CT	D1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	D2									•	•	•	•	•	•	•	•	•	•	•				
SMPA-92CT	D1									•	•	•	•	•	•	•	•	•	•	•	•	•		
	D2										•	•	•	•	•	•	•	•	•	•	•	•		
SMPA-102CT	D1										•	•	•	•	•	•	•	•	•	•	•	•	•	•
	D2																•	•	•	•	•	•	•	

Series of photos:

Performance parameter

Model	Max aperture (mm)		Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable			quality (g)
	D1	D2					radial deviation	angular deviation	axial deviation	
SMPA-56CT	Φ30	Φ25	32	7700	10000	1.63×10^{-4}	0.2	1.0	±0.6	342
SMPA-68CT	Φ35	Φ35	60	6500	14000	3.97×10^{-4}	0.2	1.0	±0.6	565
SMPA-82CT	Φ42	Φ40	100	5500	35000	1.13×10^{-3}	0.2	1.0	±0.6	1120
SMPA-92CT	Φ45	Φ45	150	5500	40000	1.66×10^{-3}	0.2	1.0	±0.6	1320
SMPA-102CT	Φ55	Φ50	250	4000	70000	2.5×10^{-3}	0.2	1.0	±0.9	1561

When ordering:

SMPA-68CT - 20x22

Product model specification　　Shaft bore

※ Keyway machining

When processing the keyway on the D1 side shaft hole:SMPA-68CT-20Kx22

※ Shape change service:

If you wish to change the standard coupling profile 1 (stepped sleeve) to profile 2 (straight sleeve)

For keyway processing parameters, please refer to the keyway dimension table

DMPS-CT Series

Coupling Single Diaphragm - (Clamping type + Expansion type) (Carbon Steel)

Structure

Material

(Top wire type) Shaft sleeve	Carbon steel/blackening
	stainless steel
(clamping type) Shaft sleeve	Carbon steel/blackening
	stainless steel
Expansion ring	Carbon steel/blackening
	stainless steel
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435 (12.9 class)
	Ferric oxide protective film (black)
Hexagon socket set bolt	SCM435(12.9 class)
	Ferric oxide protective film (black)
Hexagon socket bolts	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm-type elastic coupling connected byexpansion sleeve
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- Clamping type+expansion type fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precision encoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environmenttransmission system
- Acid-base,warm and humid environment

Product model description

DMPS-68CT - 20x22

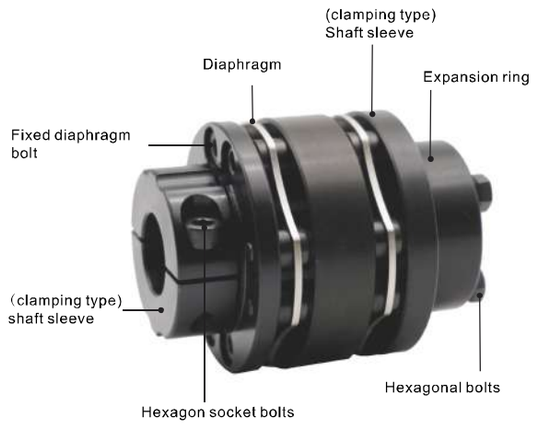
Product model specification Shaft bore

※ Remarks: keyway can be processed

SMPS-CT Series

Coupling Double Diaphragm - (Clamping type + Expansion type) (Carbon Steel)

Structure



Material

(Top wire type) Shaft sleeve	Carbon steel/blackening
	stainless steel
(clamping type) Shaft sleeve	Carbon steel/blackening
	stainless steel
Expansion ring	Carbon steel/blackening
	stainless steel
Intermediate	Carbon steel/blackening
	stainless steel
Diaphragm	stainless steel
Gasket	Carbon steel blackened
Fixed diaphragm bolt	SCM435(12.9 level)
	Ferric oxide protective film (black)
Hexagon socket set bolt	SCM435(12.9 level)
	Ferric oxide protective film (black)
Hexagon socket bolts	SCM435(12.9 level)
	Ferric oxide protective film (black)

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragm compensates for angular and axial deviation
- Corrosion resistance
- clamping type+expansion type fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Precisionencoder
- XY axis sliding table, indexing table
- Dust-free,vacuum environment transmission system
- Acid-base,warm and humid environment

Product model description

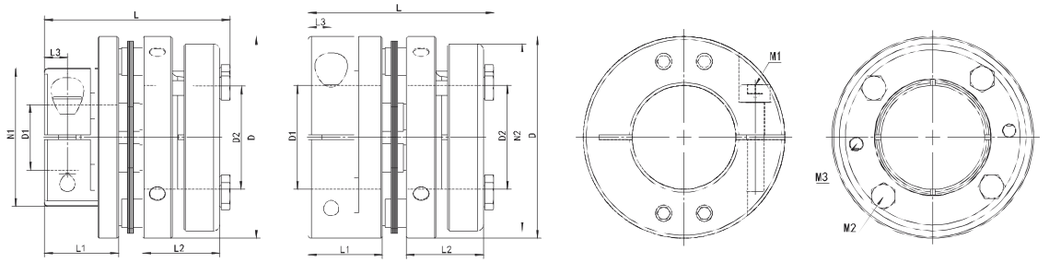
SMPS-68CT - 20x22

Product model specification Shaft bore

※ Remarks: keyway can be processed

DMPS-CT Series

Single Diaphragm - Clamping type + Expansion Type - Coupling (Carbon Steel)



Shape 1(D1 small aperture)　　shape2(D1 big aperture)

Specifications

Model	D1 Aperture range		D2 Aperture range	D	L	N1	N2	L1	L2	L3	M1	M2/M3	Screw tightening torque	
	Small aperture	Big aperture											M1	M2
DMPS-56CT	10-20	22-30	10-25	56	51	38	40 48	20	20	6.5	M5	M5	5	6
DMPS-68CT	10-22	24-35	16-35	68	62.6	46.5	44 53 63	25	26	7.75	M6	M5	8	6
DMPS-82CT	14-28	30-42	19-40	82	72.7	54	58 68 75	30	30	9	M8	M6	28	13.7
DMPS-92CT	19-35	38-45	20-45	92	73	60	58 68 78	30	30	9	M8	M6	28	13.7
DMPS-102CT	20-40	42-55	32-50	102	73	68	73 78 83	30	30	9	M8	M6	28	13.7

D1/D2 Standard aperture

Model		10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
DMPS-56CT	D1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
	D2	●	●	●	●	●	●	●	●	●	●	●	●	●										
DMPS-68CT	D1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
	D2						●	●	●	●	●	●	●	●	●	●	●	●						
DMPS-82CT	D1				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	D2									●	●	●	●	●	●	●	●	●	●	●				
DMPS-92CT	D1									●	●	●	●	●	●	●	●	●	●	●	●	●		
	D2										●	●	●	●	●	●	●	●	●	●	●	●		
DMPS-102CT	D1										●	●	●	●	●	●	●	●	●	●	●	●	●	●
	D2																●	●	●	●	●	●	●	

Series of photos:

Performance parameter

Model	Max aperture (mm)		Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable			quality (g)
	D1	D2					radial deviation	angular deviation	axial deviation	
DMPS-56CT	Φ30	Φ25	38.4	5000	22400	2.3×10^{-4}	0.02	0.5	±0.3	492
DMPS-68CT	Φ35	Φ35	80	5000	33600	6.5×10^{-4}	0.02	0.5	±0.3	929
DMPS-82CT	Φ42	Φ40	130	4000	78000	1.63×10^{-3}	0.02	0.5	±0.3	1612
DMPS-92CT	Φ45	Φ45	195	4000	89000	2.5×10^{-3}	0.02	0.5	±0.3	1978
DMPS-102CT	Φ55	Φ50	325	4000	156000	3.6×10^{-3}	0.02	0.5	±0.5	2289

When ordering:

DMPS-68CT - 20x22

Product model specification　　Shaft bore

※ Keyway machining

When processing the keyway on the D1 side shaft hole:DMPS-68CT-20Kx22

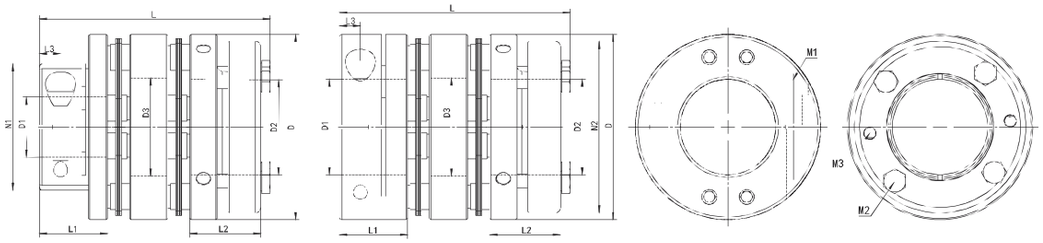
※ Shape change service:

If you wish to change the standard coupling profile 1 (stepped sleeve) to profile 2 (straight sleeve)

For keyway processing parameters, please refer to the keyway dimension table

SMPS-CT Series

Double Diaphragm - Clamping type + Expansion type - Coupling (Carbon Steel)



Shape 1(D1 small aperture)

shape2(D1 big aperture)

Specifications

Model	D1 Aperture range		D2 Aperture range	D	L	N1	N2	D3	L1	L2	L3	M1	M2/M3	Screw tightening torque	
	Small aperture	Big aperture												M1	M2
SMPS-56CT	10-20	22-30	10-25	56	51	38	40 48	31	20	20	6.5	M5	M5	5	6
SMPS-68CT	10-22	24-35	16-35	68	626	46.5	44 53 63	36	25	26	7.75	M6	M5	8	6
SMPS-82CT	14-28	30-42	19-40	82	727	54	58 68 75	42.5	30	30	9	M8	M6	28	13.7
SMPS-92CT	19-35	38-45	20-45	92	73	60	58 68 78	47	30	30	9	M8	M6	28	13.7
SMPS-102CT	20-40	42-55	32-50	102	73	68	73 78 83	56	30	30	9	M8	M6	28	13.7

D1/D2 Standard aperture

Model		10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50	55
SMPS-56CT	D1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
	D2	•	•	•	•	•	•	•	•	•	•	•	•	•										
SMPS-68CT	D1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
	D2						•	•	•	•	•	•	•	•	•	•	•	•						
SMPS-82CT	D1				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	D2									•	•	•	•	•	•	•	•	•	•	•				
SMPS-92CT	D1									•	•	•	•	•	•	•	•	•	•	•	•	•		
	D2										•	•	•	•	•	•	•	•	•	•	•	•		
SMPS-102CT	D1										•	•	•	•	•	•	•	•	•	•	•	•	•	•
	D2																•	•	•	•	•	•	•	

Series of photos:

Performance parameter

Model	Max aperture (mm)		Allowable torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable			quality (g)
	D1	D2					radial deviation	angular deviation	axial deviation	
SMPS-56CT	Φ30	Φ25	38.4	5000	11200	3.34×10^{-4}	0.2	1.0	±0.6	701
SMPS-68CT	Φ35	Φ35	80	5000	16800	8.9×10^{-4}	0.2	1.0	±0.6	1250
SMPS-82CT	Φ42	Φ40	130	4000	39000	2.4×10^{-3}	0.2	1.0	±0.6	2298
SMPS-92CT	Φ45	Φ45	195	4000	44500	3.6×10^{-3}	0.2	1.0	±0.6	2831
SMPS-102CT	Φ55	Φ50	325	4000	78000	5.5×10^{-3}	0.25	1.0	±0.9	3449

When ordering:

SMPS-68CT - 20x22

Product model specification — Shaft bore

※ Keyway machining

When processing the keyway on the D1 side shaft hole:SMPS-68CT-20Kx22

※ Shape change service:

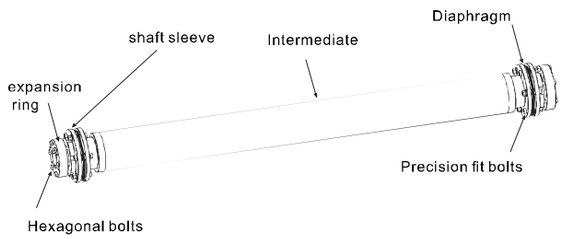
If you wish to change the standard coupling profile 1 (stepped sleeve) to profile 2 (straight sleeve)

For keyway processing parameters, please refer to the keyway dimension table

HSCM-T Series

Couplings Long Shaft Type - Expansion Type (Steel Tube)

Structure



Material

Shaft sleeve	steel
	blackening
Expansion ring	steel
	blackening
Intermediate	steel
	blackening
Diaphragm	stainless steel
Gasket	Carbon steel/blackening
Precision fit bolts	SCM435(12.9 class)
	Ferric oxide protective film (black)
Hexagonal bolts	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragmcompensates radial, angularand axial deviations
- Corrosion resistance
- expansion type fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Spindle power transmission
- Acid-base,warm and humid environment

Product model description

HSCM-6260T-48X60-J1500

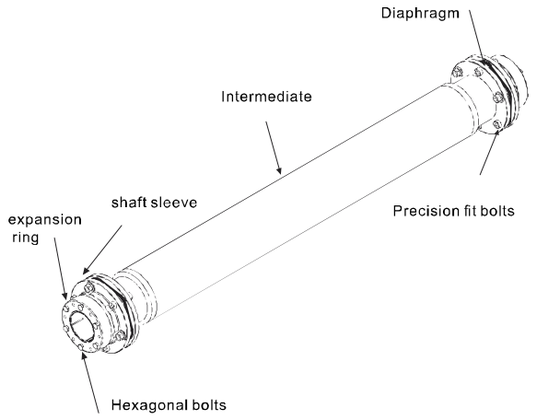
model Shaft bore Axle spacing

Remarks: keyway can be processed additionally

CFRP-T Series

Couplings Long Shaft Type - Expansion Type (Carbon Fiber Composite Tube)

Structure



Material

Shaft sleeve	steel
	blackening
Expansion ring	steel
	blackening
Intermediate	Carbon Fiber Composite Tube
Diaphragm	stainless steel
Gasket	Carbon steel/blackening
Precision fit bolts	SCM435(12.9 class)
	Ferric oxide protective film (black)
Hexagonal bolts	SCM435(12.9 class)
	Ferric oxide protective film (black)

Features

- Diaphragm elastic coupling
- Zero backlash, high-precision position control system
- Low inertia, high sensitivity, high torque rigidity
- Clockwise and counterclockwise rotation characteristics are identical
- Stainless steel diaphragm compensates for angular and axial deviation
- Corrosion resistance
- expansion type fixing method

The main purpose

- Servo motors, stepping motors, precision motors, etc.
- High-speed,high-precision position control
- Spindle power transmission
- Acid-base,warm and humid environment

Product model description

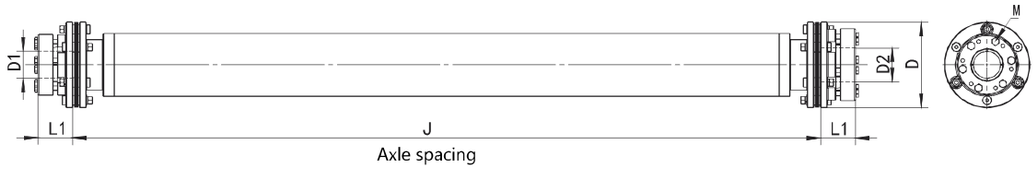
CFRP-6260T-48X60-J1500

model Shaft bore Axle spacing

Remarks: keyway can be processed additionally

HSCM-T Series

Long Shaft Type - Expansion Type - Coupling (Steel Pipe)



Specifications

Model	D1 - D2 Aperture range	D	L1	J Axle spacing(mm)	M1
HSCM-630T	14-26	77	35		6×M5
HSCM-645T	20-36	89	40		6×M5
HSCM-665T	25-45	104	45		6×M6
HSCM-6110T	30-45	126	50		6×M6
HSCM-6160T	35-55	143	55		6×M8
HSCM-6260T	40-65	168	60		6×M8
HSCM-8320T	42-75	168	65		8×M8
HSCM-8400T	50-85	188	75		8×M8
HSCM-8500T	60-100	198	95		8×M10

Maximum speed table (different axis spacing J)

Maximum speed table (r/min)										
Axle spacing / model / J	800mm	1000mm	1125mm	1250mm	1375mm	1500mm	1625mm	1750mm	1800mm	2000mm
HSCM-630T	5500	4300	3500	3000	2500	2000	1600	1500	1350	1200
HSCM-645T	6000	5500	4300	3500	2900	2400	2100	1700	1600	1300
HSCM-665T	6000	5700	5300	4200	3400	3000	2500	2200	2000	1600
HSCM-6110T	6000	6000	5700	4800	4200	3300	2800	2500	2200	1800
HSCM-6160T	6000	6000	6000	5400	4700	3700	3200	2800	2500	2200
HSCM-6260T	6000	6000	6000	5700	5100	4200	3500	3100	2600	2300
HSCM-8320T	6000	6000	6000	6000	5300	4500	3800	3200	3000	2500
HSCM-8400T	6000	6000	6000	6000	5300	4500	3800	3200	3000	2500
HSCM-8500T	5000	5000	5000	5000	5000	5000	4500	3800	3600	3000

Nietz Precision Coupling

Performance parameter

Model	Max aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Allowable		
					radial deviation	angular deviation	axial deviation
HSCM-630T	Φ26	300	450			0.3	±0.8
HSCM-645T	Φ36	420	630			0.3	±0.9
HSCM-665T	Φ45	650	975			0.3	±1.1
HSCM-6110T	Φ45	1100	1650			0.3	±1.3
HSCM-6160T	Φ55	1600	2400	See the		0.3	±1.5
HSCM-6260T	Φ65	2600	3900	tachometer		0.3	±1.7
HSCM-8320T	Φ75	3200	4800			0.3	±1.5
HSCM-8500T	Φ100	5000	7500			0.3	±2.0

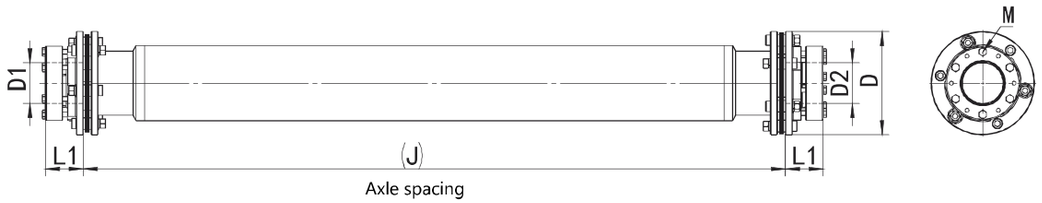
When ordering:

HSCM-6260T-48X60-J1500

model Aperture Axle spacing

CFRP-T Series

Long Shaft Type - Expansion Type - Coupling (Carbon Fiber Composite Tube)



Specifications

Model	D1 - D2 Aperture range	D	L1	J Axle spacing(mm)	M
CFRP-630T	14-26	77	35	According to customer requirements (up to 4000mm)	6×M5
CFRP-645T	20-36	89	40		6×M5
CFRP-665T	25-45	104	45		6×M6
CFRP-6110T	30-45	126	50		6×M6
CFRP-6160T	35-55	143	55		6×M8
CFRP-6260T	40-65	168	60		6×M8
CFRP-8320T	42-75	168	65		8×M8
CFRP-8400T	50-85	188	75		8×M8
CFRP-8500T	60-100	198	95		8×M10

Performance parameter

Model	Max aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Allowable		
					radial deviation	angular deviation	axial deviation
CFRP-630T	Φ26	300	450	10000	Determined by the length of J	0.3	±0.8
CFRP-645T	Φ36	420	630	10000		0.3	±0.9
CFRP-665T	Φ45	650	975	10000		0.3	±1.1
CFRP-6110T	Φ45	1100	1650	8000		0.3	±1.3
CFRP-6160T	Φ55	1600	2400	7000		0.3	±1.5
CFRP-6260T	Φ65	2600	3900	6500		0.3	±1.7
CFRP-8320T	Φ75	3200	4800	5500		0.3	±1.5
CFRP-8400T	Φ85	4000	6000	5000		0.3	±1.7
CFRP-8500T	Φ100	5000	7500	4500		0.3	±2.0

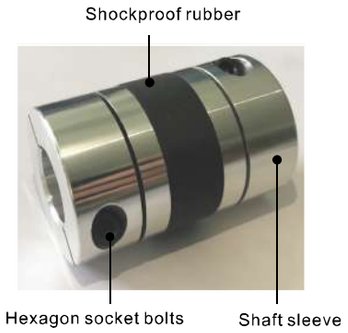
When ordering:

CFRP-6260T-48X60-J1500

model Aperture Axle spacing

ZS-C Series integrated-high-precision-clamping (standard) coupling (high-strength aluminum alloy)
ZSD-C Series Integrated-high-precision-clamping (short and smal) coupling (high-strength aluminum alloy)

Structure



Material

Shaft sleeve	High strength aluminum alloy
Spacer	Shockproof rubber
Hexagon socket bolts	SCM435(12.9 level)
	Ferric oxide protective film (black)

Features

- Zero-turn backlash (accuracy)
- High gain
- Shock absorption/cutting
- High torsional rigidity
- Absorption deviation
- Electrical insulation
- Oil resistance
- Clamping screw fixing method

The main purpose

- Servo motor, stepper motor, general purpose motor
- Machine tool equipment, machining center XYZ axis drive
- Semiconductor production equipment
- robot
- Precision position positioning contro!
- Automation equipment

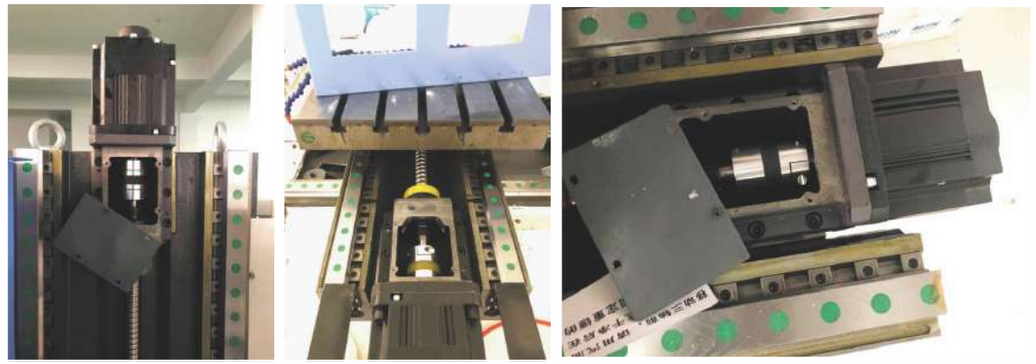
Product model description

ZS－40C	－	10×16
ZSD－65C	－	20×24
Product model specification		Shaft bore

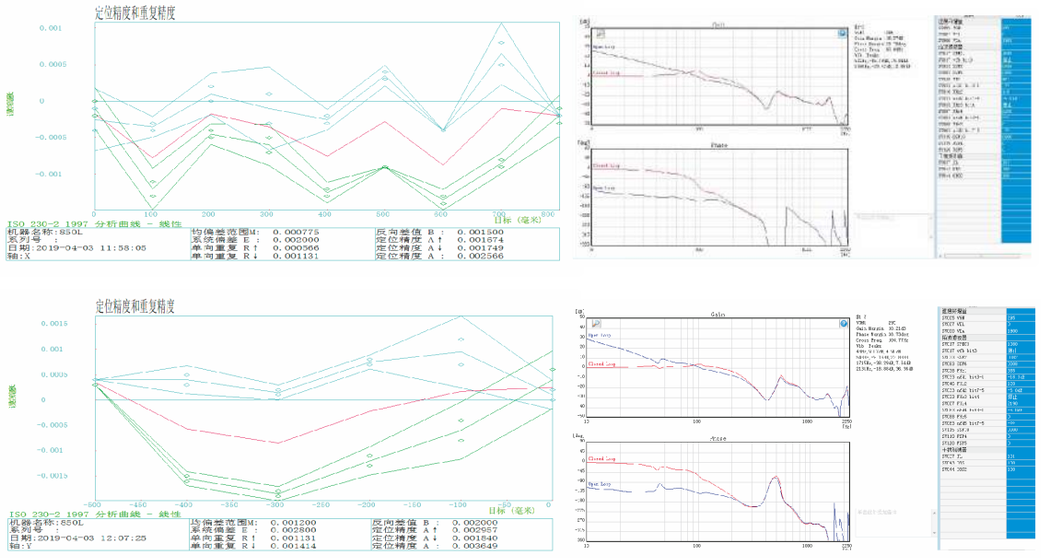
※ Remarks:non-standard aperture can be processed additionally

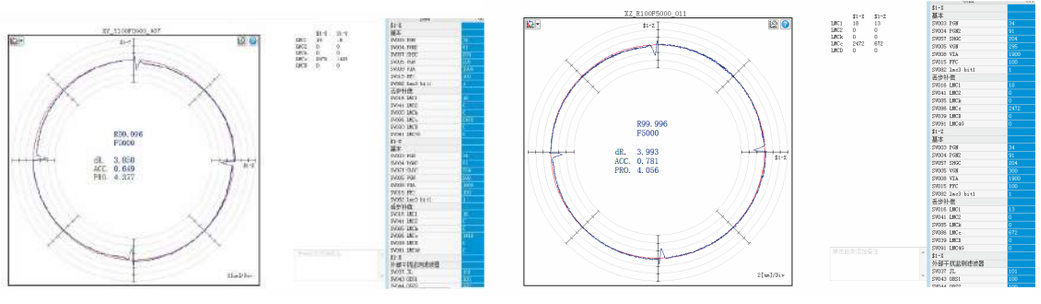
Integrated-high-precision coupling Machine tool application case

Assembly:



Test:



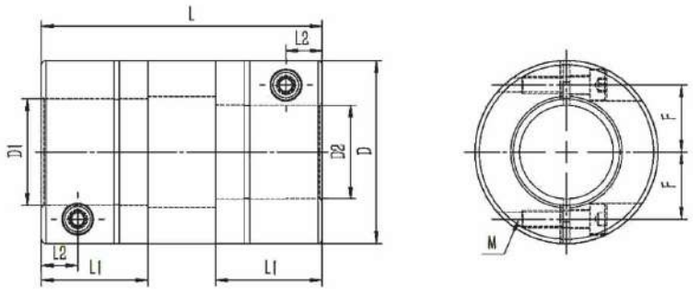


ZS-C Series integrated-high-precision-clamping(standard) coupling (high-strength aluminum alloy)

ZSD-C Series integrated-high-precision-clamping (short and small) coupling (high-strength aluminum alloy)

Outer diameter

ϕ30– ϕ105



Specifications

Model	Shaft bore	D	L	L1	L2	F	M	Screw tightening torque
ZS-30C	6–12	Φ30	43	15	4.5	10	M4	3.5
	14–16					11	M3	1.5
ZS-40C	8–20	Φ40	66	25	8.5	15	M5	8
	22–25					16	M4	3.5
ZS-55C	10–28	Φ55	78	30	10.5	20	M6	13
	30–32					22.5	M5	8
ZSD-65C	14–32	Φ65	75	31	11.5	24	M8	28
	35–38					25	M6	13
ZS-65C	14–32	Φ65	90	35	11.5	24	M8	28
	35–38					25	M6	13
ZS-80C	20–42	Φ80	114	45	15	30	M8	28
	45					31		
ZS-95C	25–48	Φ95	126	50	18	34	M10	55
	50–55					36		
ZS-105C	30–60	Φ105	140	56.5	19	41	M10	55

D1 D2 Standard aperture

Model	6	6.35	7	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60
ZS-30C	●	●	●	●	●	●	●	●	●	●	●																		
ZS-40C				●	●	●	●	●	●	●	●	●	●	●	●	●	●												
ZS-55C						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									
ZSD-65C									●	●	●	●	●	●	●	●	●	●	●	●	●	●							
ZS-65C									●	●	●	●	●	●	●	●	●	●	●	●	●	●							
ZS-80C														●	●	●	●	●	●	●	●	●	●	●	●				
ZS-95C																	●	●	●	●	●	●	●	●	●	●	●	●	
ZS-105C																			●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation		quality (g)
							radial deviation	angular deviation	
ZS-30C	ϕ16	12	24	15000	135	5.8×10^{-6}	0.05	0.5	57
ZS-40C	Φ25	16	32	13000	1260	3.5×10^{-5}	0.05	0.5	135
ZS-55C	Φ32	58	116	10500	2500	1.5×10^{-4}	0.05	0.5	322
ZSD-65C	Φ38	165	300	8500	4700	3.18×10^{-4}	0.05	0.5	440
ZS-65C	Φ38	165	330	8500	4700	3.3×10^{-4}	0.05	0.5	530
ZS-80C	Φ45	330	660	7000	6600	1.0×10^{-3}	0.05	0.5	1130
ZS-95C	Φ55	440	880	5800	8800	2.2×10^{-3}	0.05	0.5	1702
ZS-105C	Φ60	500	1000	3400	11000	3.5×10^{-3}	0.05	0.5	2402

When ordering:

ZS – 40 C – 10 × 16

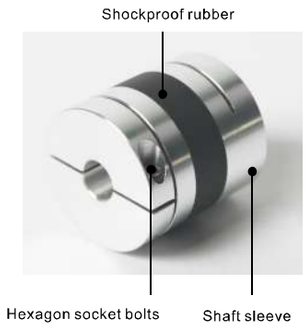
ZSD – 65 C – 20 × 24

model　Aperture　Aperture

ZSMP-C Series

Integrated High Precision Clamping Coupling (High Strength Aluminum Alloy)

Structure



Material

Shaft sleeve	High strength aluminum alloy
Spacer	Shockproof rubber
Hexagon socket bolts	SCM435(12.9 level)
	Ferric oxide protective film (black)

Features

- Zero-turn backlash (accuracy)
- High gain
- Shock absorption/cutting
- High torsional rigidity
- Absorption deviation
- Electrical insulation
- Oil resistance
- Clamping screw fixing method

The main purpose

- Servo motor, stepper motor, general purpose motor
- Machine tool equipment, machining center XYZ axis drive
- Semiconductor production equipment
- robot
- Precision position positioning contro!
- Automation equipment

Product model description

ZSMP-C-44C-10x16

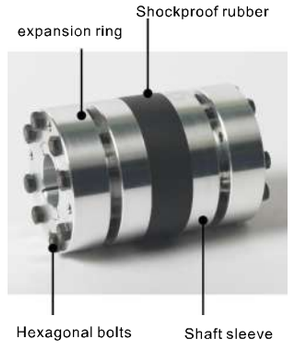
Product model specification　　Shaft bore

※ Remarks:non-standard aperture can be processed additionally

ZS-T Series

Integrated-high-precision-expansion type coupling (high-strength aluminum alloy)

Structure



Material

Shaft sleeve	High strength aluminum alloy
Expansion ring	High strength aluminum alloy
Spacer	Shockproof rubber
Hexagon socket bolts	SCM435(12.9 level)
	Ferric oxide protective film (black)

Features

- Zero-turn backlash (accuracy)
- High gain
- Shock absorption/cutting
- High torsional rigidity
- Absorption deviation
- Electrical insulation
- Oil resistance
- Use the expansion sleeve to connect

The main purpose

- Servo motor, stepper motor, general purpose motor
- Machine tool equipment, machining center XYZ axis drive
- Semiconductor production equipment
- robot
- Precision position positioning contro!
- Automation equipment

Product model description

ZS-40T - 10 x16

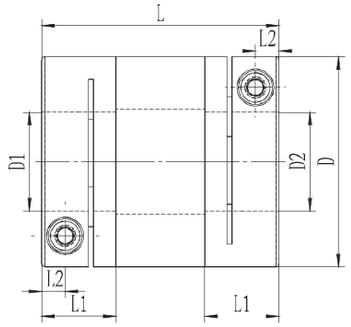
Product model specification　　Shaft bore

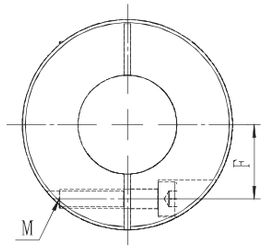
※ Remarks:non-standard aperture can be processed additionally

ZSMP-C Series

Integrated-high-precision-clamping-coupling (high-strength aluminum alloy)

Outer diameter
Φ16-Φ56





Specifications

Model	D	L	L1	L2	F	M	Screw tightening torque (N•M)
ZSMP-16C	16	25.7	9.7	2.35	5.2	M2	0.5
ZSMP-19C	19.6	28.7	10.2	2.9	7	M2.5	1
ZSMP-25C	25	34.5	12	3.3	9.25	M3	1.5
ZSMP-27C	27	35.1	12.3	3.5	10.25	M3	1.5
ZSMP-34C	34	38.4	12.8	3.8	12	M3	1.5
ZSMP-39C	39	47.6	16	4.38	14.5	M4	3.5
ZSMP-44C	44	47.6	16	4.38	17	M4	3.5
ZSMP-56C	56	64.4	21	6	20.5	M5	8

D1 D2 Standard aperture

Model	3	4	5	6	8	10	11	12	14	15	16	18	19	20	22	24	25	28
ZSMP-16C	•	•	•															
ZSMP-19C		•	•	•	•													
ZSMP-25C			•	•	•	•	•	•										
ZSMP-27C				•	•	•	•	•	•									
ZSMP-34C				•	•	•	•	•	•	•	•							
ZSMP-39C					•	•	•	•	•	•	•	•	•	•				
ZSMP-44C					•	•	•	•	•	•	•	•	•	•	•			
ZSMP-56C						•	•	•	•	•	•	•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation		quality (g)
							radial deviation	angular deviation	
ZSMP-16C	Φ5	1.5	3	10000	110	2.6×10^{-7}	0.05	0.5	12
ZSMP-19C	Φ8	2.5	5	10000	240	7.6×10^{-7}	0.05	0.5	19
ZSMP-25C	Φ12	4.5	9	10000	390	2.7×10^{-6}	0.05	0.5	34
ZSMP-27C	Φ14	4.5	9	10000	400	3.7×10^{-6}	0.05	0.5	40
ZSMP-34C	Φ16	8.5	17	10000	890	1.2×10^{-5}	0.05	0.5	72
ZSMP-39C	Φ20	14	28	10000	1100	2.5×10^{-5}	0.05	0.5	115
ZSMP-44C	Φ22	19	38	10000	1300	4.1×10^{-5}	0.05	0.5	143
ZSMP-56C	Φ28	36	72	10000	2500	1.4×10^{-4}	0.05	0.5	321

When ordering:

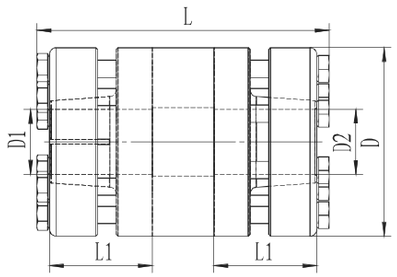
ZSMP-44C - 10 x16

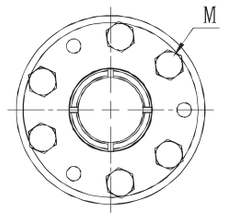
model — Aperture

ZS-T Series

Integrated-high-precision type-expansion type-coupling (high-strength aluminum alloy)

Outer diameter
Φ30–Φ105





Specifications

Model	Shaft bore	D	L	L1	M	Screw tightening torque (N•M)
ZS-30T	8-14	30	54	18.5	M3	1.5
ZS-40T	8-20	40	71.6	25	M4	3.4
ZS-55T	10-28	55	85	30	M5	7
ZS-65T	14-38	65	97	35	M5	7
ZS-80T	20-45	80	122	45	M6	14
ZS-95T	25-50	95	137	50	M8	30
ZS-105T	30-55	105	154	56.5	M10	68

D1 D2 Standard aperture

Model	8	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55
ZS-30T	•	•	•	•	•																			
ZS-40T	•	•	•	•	•	•	•	•	•	•														
ZS-55T		•	•	•	•	•	•	•	•	•	•	•	•	•										
ZS-65T					•	•	•	•	•	•	•	•	•	•	•	•	•	•						
ZS-80T										•	•	•	•	•	•	•	•	•	•	•	•			
ZS-95T													•	•	•	•	•	•	•	•	•	•	•	
ZS-105T															•	•	•	•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation		quality (g)
							radial deviation	angular deviation	
ZS-30T	Φ14	12	24	20000	120	0.05×10^{-4}	0.05	0.5	73
ZS-40T	Φ20	16	32	15000	1200	0.21×10^{-4}	0.05	0.5	176
ZS-55T	Φ28	58	116	12000	2400	0.76×10^{-4}	0.05	0.5	353
ZS-65T	Φ38	165	330	10000	4800	1.65×10^{-4}	0.05	0.5	570
ZS-80T	Φ45	330	660	7000	6500	5.17×10^{-4}	0.05	0.5	1176
ZS-95T	Φ50	440	880	6000	8800	11.17×10^{-4}	0.05	0.5	1973
ZS-105T	Φ55	500	1000	5800	10100	18.8×10^{-4}	0.05	0.5	2803

When ordering:

ZS-40T - 10 x16

ZS-40T: model
10 x16: Aperture

Plum elastomer

Plum blossom elastomers are divided into three types according to their hardness, with materials ranging from soft tohard. The appropriate elastomer can be selected according to the necessary torque, shock absorption performance, etc

Plum blossom elastomer overview

Color	Hardness	Material	Allowable temperature range		Instantaneous temperature
			Continuous temperature	Instantaneous temperature	
YL	92SHA	Polyurethane	-20℃ ~ +80℃	-30℃ ~ +100℃	Suitable for shaft sleeves of all materials
					Good dynamics
					Good damping, electrical insulation
					Applied to various general mechanical transmission and hydraulic equipment transmission
RD	98SHA	Polyurethane	-20℃ ~ +80℃	-30℃ ~ +100℃	Suitable for matching with shaft sleeves made of steel,cast iron and ductile iron
					Transmit higher torque
					Medium damping performance
					Good electrical insulation
GR	64SHD	Hytrel	-30℃ ~ +110℃	-40℃ ~ +120℃	Suitable for matching with shaft sleeves made of steeland ductile iron
					Good electricalinsulation, small torsion angle
					Very good temperature resistance
					Suitable for critical speed transmission

Outer diameter Φ14~Φ30

Outer diameterΦ40

Outer diameter Φ55~Φ95

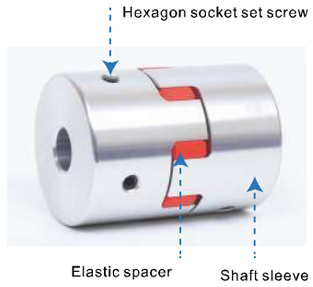
Plum blossom elastomer technical parameters

Specification	Elastomer model	Torque(Nm)		Static torque rigidity (Nm/rad)	Dynamic torque rigidity (Nm/rad)	Radial rigidity(Nm/rad)	Weight (kg)
		T	T max				
14	92Sh-A	1.2	2.4	14.3	43	219	0.5×10^{-3}
	98Sh-A	2	4	22.9	69	421	
20	92Sh-A	3	6	31.5	95	262	1.7×10^{-3}
	98Sh-A	5	10	51.6	155	518	
30	92Sh-A	7.5	15	114.6	344	336	4.7×10^{-3}
	98Sh-A	12.5	25	171.9	513	654	
40	92Sh-A	10	20	1090	1815	1120	7×10^{-3}
	98Sh-A	17	34	1512	2540	2010	
	64Sh-D	21	42	2560	3810	2930	
55	92Sh-A	35	70	2280	4010	1480	18×10^{-3}
	98Sh-A	60	120	3640	5980	2560	
	64Sh-D	75	150	5030	10896	3696	
65	92Sh-A	95	190	4080	6745	1780	29×10^{-3}
	98Sh-A	160	320	6410	9920	3200	
	64Sh-D	200	400	10260	20177	4348	
80	92Sh-A	190	380	6525	11050	2350	49×10^{-3}
	98Sh-A	325	650	11800	17160	4400	
	64Sh-D	405	810	26300	40335	6474	
95	92Sh-A	265	530	10870	15680	2430	74.5×10^{-3}
	98Sh-A	450	900	21594	37692	5570	
	64Sh-D	560	1120	36860	69825	7270	

MH-G Series

Coupling Plum Blossom Type-Top wire Type

Structure



Material

Shaft sleeve	MH-14G to MH-105G	High strength aluminum alloy
		Anodizing treatment
	MHS-14G to MHS-105G	Carbon steel
		Blackening
Elastic spacer		Polyurethane
Hexagon socket set screw		SCM435(12.9 level)
		Ferric oxide protective film (black)

Features

- Plum elastomer connection
- There are three different hardness elastomers
- Clockwise and counterclockwise rotationcharacteristics are identical
- Absorb vibration, compensate radial, angular and axial deviation
- High torsional rigidity
- Oil resistance, electricalinsulation
- Easy to load and unload
- Top wire fixing method

The main purpose

- Servo motor, stepper motor, general purpose motor
- Machine tool equipment, drill attack, machining centerXYZ axis drive
- Robots,medical devices
- Reducer
- Precision position positioning control
- Indexing table,injection molding machine, printingmachine, etc.

Product model description

MH-30G - RD - 10x16

Product model specification | colour | Shaft bore

※ Remarks:Non-standard aperture andkeyway can be processed additionally

Zero backlash

Plum blossom series selection is divided into generaluse and use underno backlash

If it is considered to be used in a backlash-free stateit needs to be used at a torque sufficiently lower thanthe common coupling torque.

In terms of the coupling structure, the component canbe used without backlash during pre-compression,but backlash may occur during use.If consideringlong-term use without backlash,itis recommendedto increase the use factor.

If you need to achieve higher precision controlpositioning for along time, it is recommended to useour company's diaphragm type series coupling

MH-C Series

Coupling Plum Blossom Type-Clamping Type

Structure

Material

Shaft sleeve	MH-14G to MH-105G	High strength aluminum alloy
		Anodizing treatment
	MHS-14G to MHS-105G	Carbon steel
		Blackening
Elastic spacer		Polyurethane
Hexagon socket set screw		SCM435(12.9 level)
		Ferric oxide protective film (black)

Features

- Plum elastomer connection
- There are three different hardness elastomers
- Clockwise and counterclockwise rotationcharacteristics are identical
- Absorb vibration, compensate radial, angular and axial deviation
- High torsional rigidity
- Oil resistance, electricalinsulation
- Easy to load and unload
- Clamping screw fixing method

The main purpose

- Servo motor, stepper motor, general purpose motor
- Machine tool equipment, drill attack, machining centerXYZ axis drive
- Robots,medical devices
- Reducer
- Precision position positioning contro!
- Indexing table,injection molding machine, printingmachine, etc.

Product model description

MH-30C - RD - 10x16

Product model specification | colour | Shaft bore

※ Remarks:Non-standard aperture andkeyway can be processed additionally

Zero backlash

Plum blossom series selection is divided into generaluse and use underno backlash

If it is considered to be used in a backlash-free stateit needs to be used at a torque sufficiently lower thanthe common coupling torque.

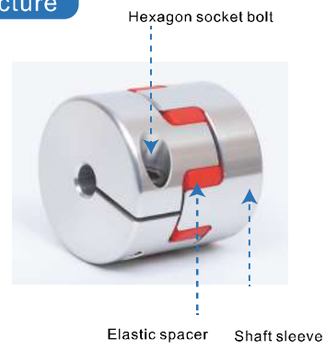
In terms of the coupling structure, the component canbe used without backlash during pre-compression,but backlash may occur during use.If consideringlong-term use without backlash,itis recommendedto increase the use factor.

If you need to achieve higher precision controlpositioning for along time, it is recommended to useour company's diaphragm type series coupling

MHD-C Series

Coupling Plum Blossom Type-Clamping Type (Short and Small)

Structure



Material

Shaft sleeve	High strength aluminum alloy
	Anodizing treatment
Elastic spacer	Polyurethane
Hexagon socket bolts	SCM435(12.9 level)
	Ferric oxide protective film (black)

Features

- Plum elastomer connection
- There are three different hardness elastomers
- Clockwise and counterclockwise rotationcharacteristics are identical
- Absorb vibration, compensate radial, angular and axial deviation
- High torsional rigidity
- Oil resistance, electricalinsulation
- Easy to load and unload
- Clamping screw fixing method

The main purpose

- Servo motor, stepper motor, general purpose motor
- Machine tool equipment, drill attack, machining centerXYZ axis drive
- Robots,medical devices
- Precision position positioning control
- Reducer
- Indexing table,injection molding machine, printingmachine, etc.

Product model description

MHD-40C - RD - 10x16

Product model specification | colour | Shaft bore

※ Remarks:Non-standard aperture andkeyway can be processed additionally

Zero backlash

Plum blossom series selection is divided into generaluse and use underno backlash

If it is considered to be used in a backlash-free stateit needs to be used at a torque sufficiently lower thanthe common coupling torque.

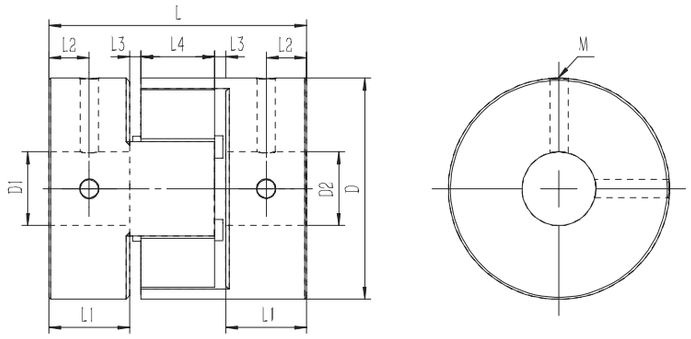
In terms of the coupling structure, the component canbe used without backlash during pre-compression,but backlash may occur during use.If consideringlong-term use without backlash,itis recommendedto increase the use factor.

If you need to achieve higher precision controlpositioning for along time, it is recommended to useour company's diaphragm type series coupling

MH-G Plum Blossom Type

Top wire Type-Coupling (High Strength Aluminum Alloy)

Outer diameter
Φ14-Φ30



Specifications

Model	D	L	L1	L2	L3*	L4	M	Screw tightening torque (N•M)
MH-14G	14	22	7	3.5	1	6	M3	0.7
MH-20G	20	30	10	5	1	8	M3	0.7
MH-30G	30	35	11	5.5	1.5	10	M4	1.7

* Please be sure to leave L3 size when using

D1 D2 Standard aperture

Model	3	4	4.5	5	6	6.35	7	8	9.525	10	11	12	14	15	16
MH-14G	●	●	●	●	●	●	●								
MH-20G		●	●	●	●	●	●	●	●	●	●				
MH-30G					●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Elastic spacer / Fastening type	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation: radial deviation	Allowable deviation: angular deviation	Allowable deviation: axial daviation	quality (g)
MH-14G	YL	Φ7	1.2	2.4	19000	15	1.6×10^{-7}	0.10	1.0	+0.6 0	6
MH-20G	YL	Φ11	3	6	17000	28	1.0×10^{-6}	0.15	1.0	+0.8 0	16
MH-30G	YL	Φ16	7.5	15	15000	74	5.2×10^{-6}	0.15	1.0	+1.0 0	43
MH-14G	RD	Φ7	2	4	19000	24	1.6×10^{-7}	0.10	1.0	+0.6 0	6
MH-20G	RD	Φ11	5	10	17000	57	1.0×10^{-6}	0.10	1.0	+0.8 0	16
MH-30G	RD	Φ16	12.5	25	15000	133	5.22×10^{-6}	0.10	1.0	+1.0 0	43

When ordering:

MH - 30G - RD- 10×16

- MH - 30G: Product model specification
- RD: colour
- 10×16: Aperture

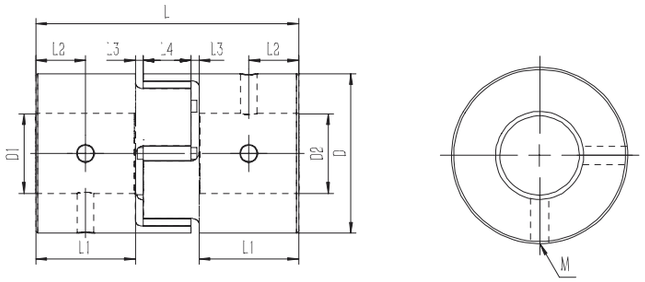
※ Keyway machining

When machiningkeywayon one side shaft hole :MH-30G-RD-10Kx16
When machining keyway on two sides shaft hole:MH-30G-RD-10Kx16K

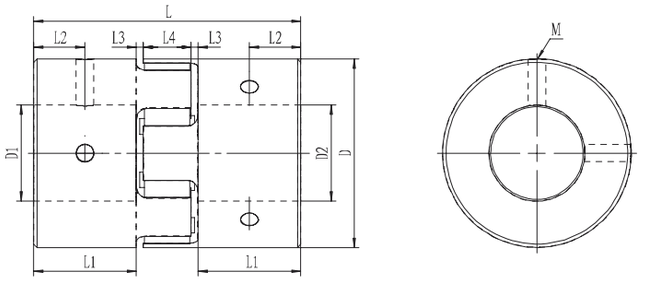
For keyway processing parameters, please refer to the keyway dimension table

MH-G Plum Blossom Type-Top wire Type-Coupling (High Strength Aluminum Alloy)
MHS-G Plum BlossomType-Top wire Type-Coupling (Carbon Steel)

Outer diameter
Φ40



Outer diameter
Φ55-Φ135



Specifications

Model	D	L	L1	L2	L3*	L4	M	Screw tightening torque (N•M)
MH-40G	40	66	25	12.5	2	12	M5	4
MH-55G	55	78	30	15	2	14	M6	7
MH-65G	65	90	35	17.5	2.5	15	M8	15
MH-80G	80	114	45	22.5	3	18	M8	15
MH-95G	95	126	50	25	3	20	M8	15
MH-105G	105	140	56.5	25	3	21	M10	25
MHS-120G	120	160	65	25	3.5	22	M12	55
MHS-135G	135	185	75	30	3.5	26	M12	55

* Please be sure to leave L3 size when using

D1 D2 Standard aperture

Model	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70
MH-40G	●	●	●	●	●	●	●	●	●	●	●	●	●	●														
MH-55G			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●											
MH-65G						●	●	●	●	●	●	●	●	●	●	●	●	●	●									
MH-80G											●	●	●	●	●	●	●	●	●	●	●	●						
MH-95G														●	●	●	●	●	●	●	●	●	●	●	●			
MH-105G																●	●	●	●	●	●	●	●	●	●	●		
MHS-120G																	●	●	●	●	●	●	●	●	●	●	●	
MHS-135G																		●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Elastic spacer	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min-¹)	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
	Fastening type							radial deviation	angular deviation	axial daviation	
MH-40G	YL	Φ25	10	20	13000	580	3.6×10^{-5}	0.10	1.0	$^{+1.2}_{0}$	134
MH-55G	YL	Φ32	35	70	10500	1680	1.55×10^{-4}	0.15	1.0	$^{+1.4}_{0}$	318
MH-65G	YL	Φ38	95	190	8500	3100	3.56×10^{-4}	0.15	1.0	$^{+1.5}_{0}$	515
MH-80G	YL	Φ45	190	380	7100	5400	1.2×10^{-3}	0.15	1.0	$^{+1.8}_{0}$	1020
MH-95G	YL	Φ55	265	530	5800	6000	2.35×10^{-3}	0.15	1.0	$^{+2.0}_{0}$	1549
MH-105G	YL	Φ60	310	620	3400	7000	3.72×10^{-3}	0.15	1.0	$^{+2.0}_{0}$	2146
MH-40G	RD	Φ25	17	34	13000	1260	3.6×10^{-5}	0.10	1.0	$^{+1.2}_{0}$	134
MH-55G	RD	Φ32	60	120	10500	2500	1.55×10^{-4}	0.10	1.0	$^{+1.4}_{0}$	318
MH-65G	RD	Φ38	160	320	8500	4700	3.56×10^{-4}	0.10	1.0	$^{+1.5}_{0}$	515
MH-80G	RD	Φ45	325	650	7100	6600	1.3×10^{-3}	0.10	1.0	$^{+1.8}_{0}$	1020
MH-95G	RD	Φ55	450	900	5800	8800	2.35×10^{-3}	0.10	1.0	$^{+2.0}_{0}$	1549
MH-105G	RD	Φ60	525	1050	3400	11000	3.72×10^{-3}	0.10	1.0	$^{+2.0}_{0}$	2146
MHS-120G	RD	Φ65	685	1370	3150	38000	2.09×10^{-2}	0.10	1.0	$^{+2.2}_{0}$	8992
MHS-135G	RD	Φ70	940	1880	2800	43000	3.94×10^{-2}	0.10	1.0	$^{+2.6}_{0}$	13638
MH-40G	GR	Φ25	21	42	13000	3100	3.6×10^{-5}	0.08	1.0	$^{+1.2}_{0}$	134
MH-55G	GR	Φ32	75	150	10500	9200	1.55×10^{-4}	0.08	1.0	$^{+1.4}_{0}$	318
MH-65G	GR	Φ38	200	400	8500	13800	3.56×10^{-4}	0.08	1.0	$^{+1.5}_{0}$	515
MH-80G	GR	Φ45	405	810	7100	14500	1.2×10^{-3}	0.08	1.0	$^{+1.8}_{0}$	1020
MH-95G	GR	Φ55	560	1120	5800	15600	2.35×10^{-3}	0.08	1.0	$^{+2.0}_{0}$	1549
MH-105G	GR	Φ60	655	1310	4500	50000	3.72×10^{-3}	0.08	1.0	$^{+2.0}_{0}$	2146
MHS-120G	GR	Φ65	825	1650	3150	95000	2.09×10^{-2}	0.08	1.0	$^{+2.2}_{0}$	8992
MHS-135G	GR	Φ70	1175	2350	2800	105000	3.94×10^{-2}	0.08	1.0	$^{+2.6}_{0}$	13638

When ordering: **MH - 40G -RD- 10×16**

Product model specification | colour | Aperture

※ Keyway machining

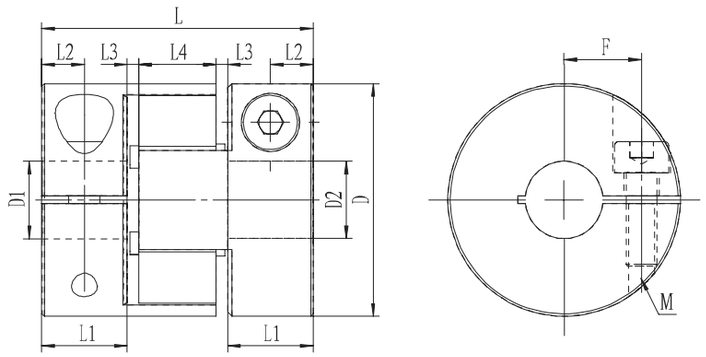
When machiningkeywayon one side shaft hole :MH-40G-RD-10Kx16
When machining keyway on two sides shaft hole:MH-40G-RD-10Kx16K

For keyway processing parameters, please refer to the keyway dimension table

MH-C Plum Blossom Type

Clamping Type-Coupling (High Strength Aluminum Alloy)

Outer diameter
Φ14-Φ30



Specifications

Model	Shaft bore	D	L	L1	L2	L3*	L4	F	M	Screw tightening torque (N•M)
MH-14C	3 - 5 6 - 7	Φ14	22	7	3.5	1	6	4 5	M2 M1.6	0.5 0.25
MH-20C	4 - 8 9.525 - 11	Φ20	30	10	5	1	8	6.5 7.5	M2.5 M2	1 0.5
MH-30C	6 - 12 14 - 16	Φ30	35	11	5.5	1.5	10	10 11	M4 M3	3.5 1.5

* Please be sure to leave L3 size when using

D1 D2 Standard aperture

Model	3	4	4.5	5	6	6.35	7	8	9.525	10	11	12	14	15	16
MH-14C	●	●	●	●	●	●	●								
MH-20C		●	●	●	●	●	●	●	●	●	●				
MH-30C					●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Elastic spacer / Fastening type	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation: radial deviation	Allowable deviation: angular deviation	Allowable deviation: axial daviation	quality (g)
MH-14C	YL	Φ7	1.2	2.4	19000	15	1.8×10^{-7}	0.10	1.0	+0.6 0	6
MH-20C	YL	Φ11	3	6	17000	28	1.0×10^{-6}	0.15	1.0	+0.8 0	18
MH-30C	YL	Φ16	7.5	15	15000	74	5.8×10^{-6}	0.15	1.0	+1.0 0	48
MH-14C	RD	Φ7	2	4	19000	24	1.8×10^{-7}	0.10	1.0	+0.6 0	6
MH-20C	RD	Φ11	5	10	17000	57	1.0×10^{-6}	0.10	1.0	+0.8 0	18
MH-30C	RD	Φ16	12.5	25	15000	133	5.8×10^{-6}	0.10	1.0	+1.0 0	48

When ordering:

MH - 30C - RD- 10×16

Product model specification — colour — Aperture

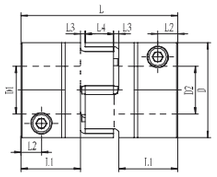
※ Keyway machining

When machiningkeywayon one side shaft hole :MH-30C-RD-10Kx16
When machining keyway on two sides shaft hole:MH-30C-RD-10Kx16K

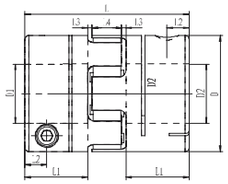
For keyway processing parameters, please refer to the keyway dimension table

MH-C Plum Blossom Type-Clamping Type-Coupling (High Strength Aluminum Alloy)
MHS-C Plum BlossomType-Clamping Type-Coupling (Carbon Steel)

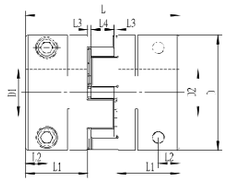
Outer diameter Φ40



Outer diameter Φ55-Φ95



Outer diameter Φ 105-Φ135



Specifications

Model	Shaft bore	D	L	L1	L2	L3*	L4	F	M	Screw tightening torque (N•M)
MH-40C	8-20 22-25	40	66	25	8.5	2	12	14 15.75	M5 M4	8 3.5
MH-55C	10-28 30-32	55	78	30	10.5	2	14	20 21	M6 M5	13 8
MH-65C	14-32 35-38	65	90	35	13	2.5	15	24 25	M8 M6	28 13
MH-80C	20-42 45	80	114	45	15	3	18	30 31	M8	28
MH-95C	25-48 50-55	95	126	50	18	3	20	34 36	M10	55
MH-105C	30-60	105	140	56.5	19	3	21	41	M10	55
MHS-120C	32-65	120	160	65	26	3.5	22	46	M12	90
MHS-135C	35-70	135	185	75	33	3.5	26	51	M12	90

D1 D2 Standard aperture

Model	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70
MH-40C	●	●	●	●	●	●	●	●	●	●	●	●	●	●														
MH-55C			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●											
MH-65C						●	●	●	●	●	●	●	●	●	●	●	●	●	●									
MH-80C											●	●	●	●	●	●	●	●	●	●	●	●						
MH-95C														●	●	●	●	●	●	●	●	●	●	●	●			
MH-105C																●	●	●	●	●	●	●	●	●	●	●		
MHS-120C																	●	●	●	●	●	●	●	●	●	●	●	
MHS-135C																		●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Elastic spacer / Fastening type	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min-')	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
								radial deviation	angular deviation	axial daviation	
MH-40C	YL	Φ25	10	20	13000	580	3.5×10^{-5}	0.10	1.0	+1.2 0	131
MH-55C	YL	Φ32	35	70	10500	1680	1.55×10^{-4}	0.15	1.0	+1.4 0	310
MH-65C	YL	Φ38	95	190	8500	3100	3.4×10^{-4}	0.15	1.0	+1.5 0	502
MH-80C	YL	Φ45	190	380	7000	5500	1.1×10^{-3}	0.15	1.0	+1.8 0	997
MH-95C	YL	Φ55	265	530	5800	6000	2.25×10^{-3}	0.15	1.0	+2.0 0	1515
MH-105C	YL	Φ60	310	620	3400	7000	3.5×10^{-3}	0.15	1.0	+2.0 0	2100
MH-40C	RD	Φ25	17	34	13000	1260	3.5×10^{-5}	0.10	1.0	+1.2 0	131
MH-55C	RD	Φ32	60	120	10500	2500	1.5×10^{-4}	0.10	1.0	+1.4 0	310
MH-65C	RD	Φ38	160	320	8500	4700	3.3×10^{-4}	0.10	1.0	+1.5 0	502
MH-80C	RD	Φ45	325	650	7000	6600	1.0×10^{-3}	0.10	1.0	+1.8 0	997
MH-95C	RD	Φ55	450	900	5800	8800	2.2×10^{-3}	0.10	1.0	+2.0 0	1515
MH-105C	RD	Φ60	525	1050	3400	11000	3.5×10^{-3}	0.10	1.0	+2.0 0	2100
MHS-120C	RD	Φ65	685	1370	3150	38000	2.4×10^{2}	0.10	1.0	+2.2 0	8475
MHS-135C	RD	Φ70	940	1880	2800	43000	4.0×10^{-2}	0.10	1.0	+2.6 0	12990
MH-40C	GR	Φ25	21	42	13000	3100	3.4×10^{-5}	0.08	1.0	+1.2 0	131
MH-55C	GR	Φ32	75	150	10500	9200	1.5×10^{-4}	0.08	1.0	+1.4 0	310
MH-65C	GR	Φ38	200	400	8500	13800	3.35×10^{-4}	0.08	1.0	+1.5 0	502
MH-80C	GR	Φ45	405	810	7000	14500	1.0×10^{-3}	0.08	1.0	+1.8 0	997
MH-95C	GR	Φ55	560	1120	5800	15600	2.25×10^{-3}	0.08	1.0	+2.0 0	1515
MH-105C	GR	Φ60	655	1310	4500	50000	3.5×10^{-3}	0.08	1.0	+2.0 0	2100
MHS-120C	GR	Φ65	825	1650	3150	95000	2.4×10^{-2}	0.08	1.0	+2.2 0	8475
MHS-135C	GR	Φ70	1175	2350	2800	105000	4.0×10^{-2}	0.08	1.0	+2.6 0	12990

When ordering: **MH - 40C -RD- 10×16**

- MH - 40C: Product model specification
- RD: colour
- 10×16: Aperture

※ Keyway machining

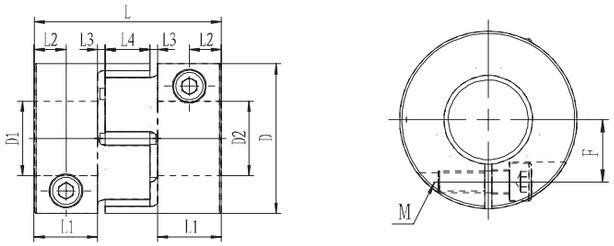
When machining keyway on one side shaft hole :MH-40C-RD-10Kx16
When machining keyway on two sides shaft hole:MH-40C-RD-10Kx16K

For keyway processing parameters, please refer to the keyway dimension table

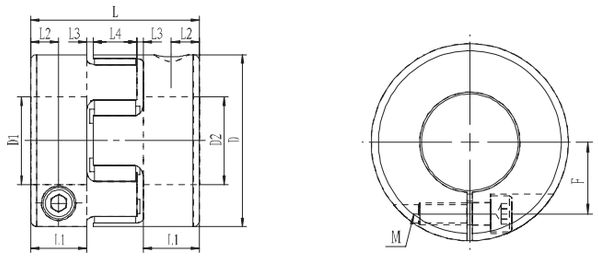
MHD-C Plum Blossom Type

Clamping type (short and small) coupling (high-strength aluminum alloy)

Outer diameter Φ40



Outer diameter Φ55-Φ105



Specifications

Model	Shaft bore	D	L	L1	L2	L3*	L4	F	M	Screw tightening torque (N•M)
MHD-40C	8-20 22-25	40	50	17	8.5	2	12	14 15.75	M5 M4	8 3.5
MHD-55C	10-28 30-32	55	54	18	9	2	14	20 21	M6 M5	13 8
MHD-65C	14-32 35-38	65	62	21	10.5	2.5	15	24 25	M8 M6	28 13
MHD-80C	20-42 45	80	88	32	16	3	18	30 31	M8	28
MHD-95C	25-48 50 55	95	94	34	17	3	21	34 36	M10	55
MHD-105C	30-60	105	99	36	18	3	22	41	M10	55

* Please be sure to leave L3 size when using

D1 D2 Standard aperture

Model	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60
MHD-40C	●	●	●	●	●	●	●	●	●	●	●	●	●	●												
MHD-55C			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									
MHD-65C						●	●	●	●	●	●	●	●	●	●	●	●	●	●							
MHD-80C											●	●	●	●	●	●	●	●	●	●	●	●				
MHD-95C														●	●	●	●	●	●	●	●	●	●	●	●	
MHD-105C																●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Elastic spacer / Fastening type	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation: radial deviation	Allowable deviation: angular deviation	Allowable deviation: axial daviation	quality (g)
MHD-40C	YL	Φ25	10	20	13000	580	2.6×10^{-5}	0.10	1.0	+1.2 0	110
MHD-55C	YL	Φ32	35	70	10500	1680	1.05×10^{-4}	0.15	1.0	+1.4 0	225
MHD-65C	YL	Φ38	95	190	8500	3100	2.35×10^{-4}	0.15	1.0	+1.5 0	348
MHD-80C	YL	Φ45	190	380	7000	5500	8.0×10^{-4}	0.15	1.0	+1.8 0	777
MHD-95C	YL	Φ55	265	530	5800	6000	1.7×10^{-3}	0.15	1.0	+2.0 0	1172
MHD-105C	YL	Φ60	310	620	3400	7000	2.66×10^{-3}	0.15	1.0	+2.0 0	1466
MHD-40C	RD	Φ25	17	34	13000	1260	2.6×10^{-5}	0.10	1.0	+1.2 0	110
MHD-55C	RD	Φ32	60	120	10500	2500	1.05×10^{-4}	0.10	1.0	+1.4 0	225
MHD-65C	RD	Φ38	160	320	8500	4700	2.35×10^{-4}	0.10	1.0	+1.5 0	348
MHD-80C	RD	Φ45	325	650	7000	6600	8.0×10^{4}	0.10	1.0	+1.8 0	777
MHD-95C	RD	Φ55	450	900	5800	8800	1.7×10^{-3}	0.10	1.0	+2.0 0	1172
MHD-105C	RD	Φ60	525	1050	3400	11000	2.66×10^{-3}	0.10	1.0	+2.0 0	1466
MHD-40C	GR	Φ25	21	42	13000	3100	2.6×10^{-5}	0.08	1.0	+1.2 0	110
MHD-55C	GR	Φ32	75	150	10500	9200	1.05×10^{-4}	0.08	1.0	+1.4 0	225
MHD-65C	GR	Φ38	200	400	8500	13800	2.35×10^{-4}	0.08	1.0	+1.5 0	348
MHD-80C	GR	Φ45	405	810	7000	14500	8.0×10^{-4}	0.08	1.0	+1.8 0	777
MHD-95C	GR	Φ55	560	1120	5800	15600	1.7×10^{-3}	0.08	1.0	+2.0 0	1172
MHD-105C	GR	Φ60	655	1310	3400	50000	2.66×10^{-3}	0.08	1.0	+2.0 0	1466

When ordering:

MHD-40C -RD-10 x16

- MHD-40C: Product model specification
- RD: colour
- 10 x16: Aperture

※ Keyway machining

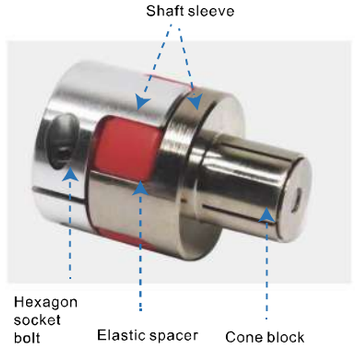
When machiningkeywayon one side shaft hole :MHD-40C-RD-10Kx16
When machining keyway on two sides shaft hole:MHD-40C-RD-10Kx16K

For keyway processing parameters, please refer to the keyway dimension table

MH-C Series

Coupling-Plum Blossom Type-Clamping Type + Internal Expansion Type

Structure



Material

Sleeve (clamping end)	High-strength aluminum alloy/anodized
Shaft sleeve (expansion end)	Carbon steel/Nickel
Cone block	Carbon steel
	Nickel
Elastic spacer	Polyurethane
Hexagon socket bolt	SCM435(12.9 level)
	Ferric oxide protective film (black)

Features

- Can be connected with synchronous wheels.gears, sprockets, hollow shafts
- Absorb vibration, compensate radial, angular and axial deviation
- High torsional rigidity
- Oilresistance, electrical insulation
- Easy to load and unload
- Can be combined with top screw type, clamping type and other sleeves

The main purpose

- Servo motor, stepper motor, general purpose motor
- Precision position positioning contro!

Product model description

MH-30CT - RD - 10x16

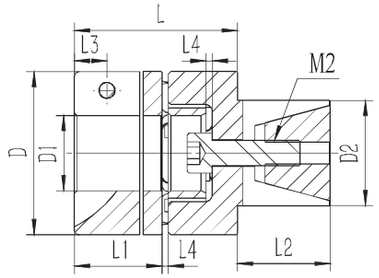
Product model specification — colour — shaft bore

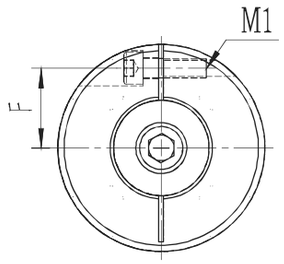
※ Remarks: Non-standard aperture and keyway can be processed additionally(Top Screw type or clamping type, one end can be keyed)

MH-CT Series

Plum Blossom Type-Clamping Type + Internal Expansion Type-Coupling

Outer diameter
Φ30-Φ65





Model	D1	D2	D	L	L1	L2	L3	L4*	F	M1	M1 Screw tightening torquey (N.M/rad)	M2	M2 Screw tightening torquey (N.M/rad)
MH-30CT	6-12	12-16	30	29	11	15.5	5.5	1.5	10	M4	3.5	M5	8
	14-16								11	M3	1.5		
MH-40CT	8-20	14-25	40	49	25	21	8.5	2	14	M5	8	M6	10
	22-25								15.75	M4	3.5		
MH-55CT	10-28	23-32	55	56	30	31	10.5	2	20	M6	13	M8	20
	30-32								21	M5	8		
MH-65CT	14-32	26-38	65	65	35	37	13	2.5	24	M8	28	M10	40
	35-38								25	M6	13		

* Please be sure to leave L4 size when using

Performance parameter

Model	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min-¹)	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial daviation	
MH-30CT	12.5	25	10000	133	1.2×10^{-5}	0.08	1.0	$+1.0\ 0$	115
MH-40CT	17	34	8500	1260	5.3×10^{-5}	0.06	1.0	$+1.2\ 0$	278
MH-55CT	60	120	6500	2500	2.1×10^{-4}	0.09	1.0	$+1.4\ 0$	607
MH-65CT	160	320	5500	4700	4.7×10^{-4}	0.1	1.0	$+1.5\ 0$	1013

When ordering:

MH-30CT -RD-10 x16

Product model specification — colour — Aperture

※ Keyway machining

MH-30CT-RD-10K×16

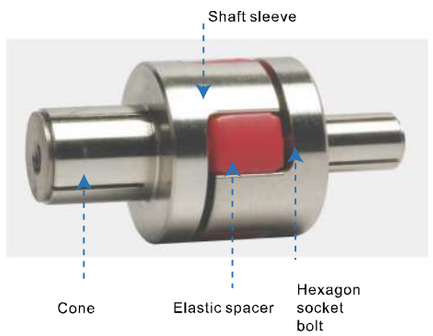
Top Screw type or clamping type, one end can be keyed)

For keyway processing parameters, please refer to the keyway dimension table

MH-TT Series

Coupling Plum Blossom-Internal Expansion+Internal Expansion

Structure



Material

Shaft sleeve	Carbon steel
	Nickel plated
Cone	Carbon steel
	Nickel plated
Elastic spacer	Polyurethane
Hexagon socket bolt	SCM435(12.9 level)
	Ferric oxide protective film (black)

Features

- It can be connected with synchronous wheels gears,sprockets, hollow shafts
- Absorb vibration, compensate radial, angular and axial deviation
- High torsional rigidity
- Oilresistance, electrical insulation
- Easy to load and unload
- Can be combined with top screw type, clamping type and other sleeves

The main purpose

- Servo motor, stepper motor, general purpose motor
- Precision position positioning contro!

Product model description

MH-30TT - RD - 10x16

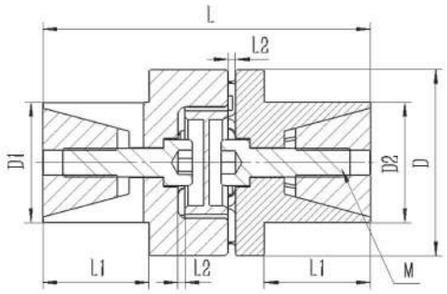
Product model specification — colour — shaft bore

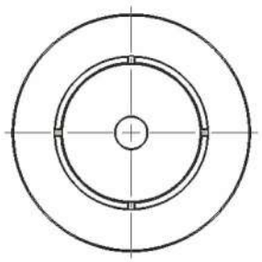
※ Note:Non-standard aperture can be processed

MH-TT Series

Plum Blossom Type-internal Expansion + internal Expansion-Coupling

Outer diameter Φ30-Φ65





Model	D1/D2	D	L	L1	L2*	M	M Screw tightening torque (N.M/rad)
MH-30TT	12-16	30	54	15.5	1.5	M5	8
MH-40TT	14-25	40	74	21	2	M6	10
MH-55TT	23-32	55	96.8	31	2	M8	20
MH-65TT	26-38	65	114	37	2.5	M10	40

* Please be sure to leave L2 size when using

Performance parameter

Model	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min-¹)	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial daviation	
MH-30TT	12.5	25	10000	133	1.8×10^{-5}	0.08	1.0	$+1.0\ 0$	189
MH-40TT	17	34	8500	1260	7.2×10^{-5}	0.06	1.0	$+1.2\ 0$	426
MH-55TT	60	120	6500	2500	2.6×10^{-4}	0.09	1.0	$+1.4\ 0$	913
MH-65TT	160	320	5500	4700	5.6×10^{-4}	0.1	1.0	$+1.5\ 0$	1452

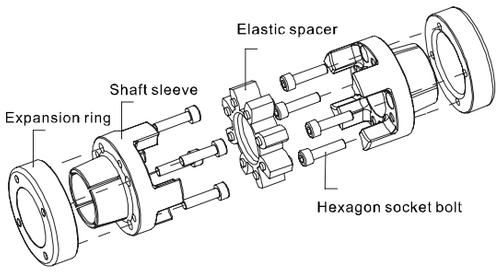
When ordering:

MH-30TT -RD-10 x16

Product model specification — colour — Shaft diameter

MH-T series coupling plum blossom type-expansion sleeve type (high-strength aluminum alloy)
MHS-T series coupling plum blossom type-expansion sleeve type (carbon steel)

Structure



Material

Shaft sleeve	Carbon steel/ high-strength aluminum alloy
	Blackening/anodic oxidation
Expansion ring	Carbon steel/ high-strength aluminum alloy
	Blackening/anodic oxidation
Elastic spacer	Polyurethane
Hexagon socket set screw	SCM435(12.9 level)
	Ferric oxide protective film (black)

Features

- Plum elastomer connection
- Excellent balance
- There are three different hardness elastomers
- Clockwise and counterclockwise rotationcharacteristics are identical
- Absorb vibration, compensate radial, angular and axial deviation
- High torsional rigidity
- Oil resistance, electricalinsulation
- Easy to load and unload
- High shaft locking force
- Use the expansion sleeve to connect

The main purpose

- Servo motor, stepper motor, general purpose motor
- Machine tool equipment, drilling and tapping machine, machining center drive
- Machine tool spindle,high speed occasions
- Robots, medical equipment
- Precision position positioning control
- Reducer
- Indexing table,injection molding machine, printingmachine, etc.

Product model description

MH-40T - 10x16

MHS-40T - 10x16

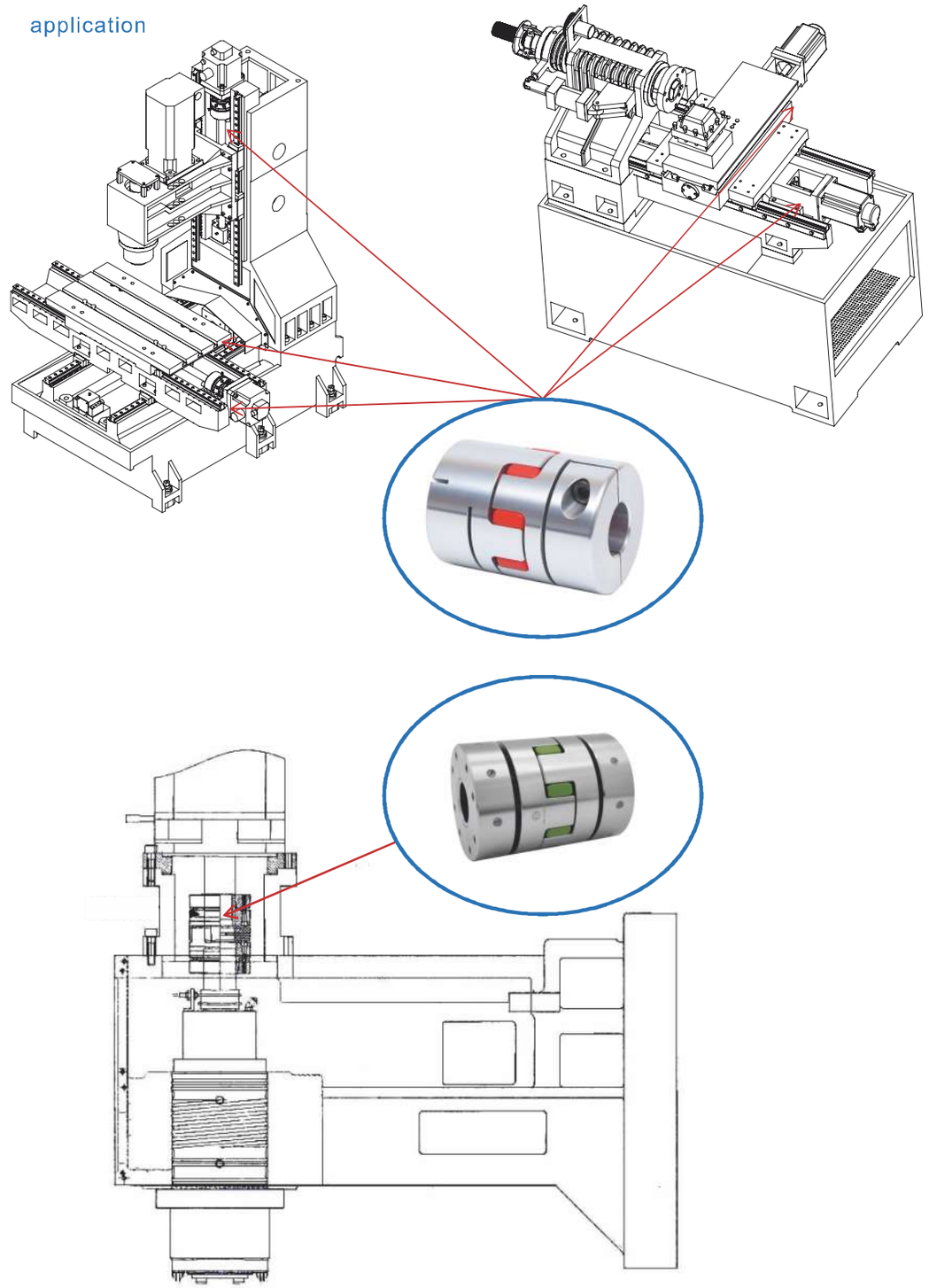
Product model specification　　Shaft bore

※ Note: Add S to indicate that the materialis carbon steel

Zero backlash

The plum blossom series is divided into general use and use without backlash.
If it is considered to be used without backlash, it needs to be used at asufficiently
lower torque than the common coupling torque
In terms of the coupling structure, the component can be used withoutbacklash
during pre-compression, but backlash may occur during use, Ifconsidering long-term
use without backlash, it is recommended to increase theuse.
If you need to achieve higher precision control positioning for a long time, it is recommended to use ourcompany's diaphragm type series coupling.

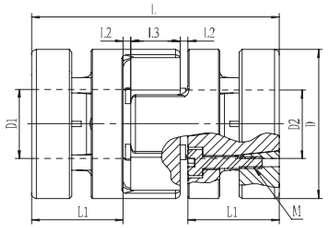
application

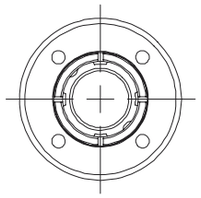


MH-T Series

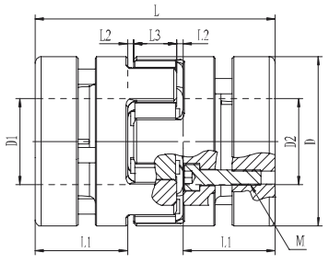
Plum blossom type-expansion sleeve type-coupling (high-strength aluminum alloy)

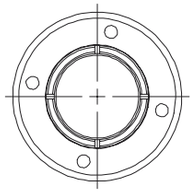
Outer diameter
Φ30





Outer diameter
Φ40-Φ105





Specifications

Model	D	L	L1	L2*	L3	M	Number of bolts	M wire Tightening torque (N. M)
MH-30T	30	50	18.5	1.5	10	M3	4	1.5
MH-40T	40	66	25	2	12	M4	6	3.4
MH-55T	55	78	30	2	14	M5	4	7
MH-65T	65	90	35	2.5	15	M5	8	7
MH-80T	80	114	45	3	18	M6	8	14
MH-95T	95	126	50	3	20	M8	8	30
MH-105T	105	140	56.5	3	21	M10	8	68

D1 D2 Standard aperture

Model	8	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55
MH-30T	•	•	•	•	•																			
MH-40T	•	•	•	•	•	•	•	•	•	•														
MH-55T		•	•	•	•	•	•	•	•	•	•	•	•	•										
MH-65T					•	•	•	•	•	•	•	•	•	•	•	•	•	•						
MH-80T										•	•	•	•	•	•	•	•	•	•	•	•			
MH-95T													•	•	•	•	•	•	•	•	•	•	•	
MH-105T															•	•	•	•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Elastic spacer / Fastening type	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
								radial deviation	angular deviation	axial daviation	
MH-30T	YL	Φ14	7.5	15	20000	70	0.05×10^{-4}	0.10	1.0	+1.0 0	64
MH-40T	YL	Φ20	10	20	15000	560	0.21×10^{-4}	0.10	1.0	+1.2 0	1 60
MH-55T	YL	Φ28	35	70	12000	1600	0.76×10^{-4}	0.15	1.0	+1.4 0	321
MH-65T	YL	Φ38	95	190	10000	3000	1.65×10^{-4}	0.15	1.0	+1.5 0	510
MH-80T	YL	Φ45	190	380	7000	5400	5.17×10^{-4}	0.15	1.0	+1.8 0	982
MH-95T	YL	Φ50	265	530	6000	6100	11.17×10^{-4}	0.15	1.0	+2.0 0	1 655
MH-105T	YL	Φ55	310	620	5800	7500	18.8×10^{-4}	0.15	1.0	+2.0 0	2 342
MH-30T	RD	Φ14	12.5	25	20000	120	0.05×10^{-4}	0.10	1.0	+1.0 0	64
MH-40T	RD	Φ20	17	34	15000	1200	0.21×10^{-4}	0.10	1.0	+1.2 0	1 60
MH-55T	RD	Φ28	60	120	12000	2400	0.76×10^{-4}	0.10	1.0	+1.4 0	321
MH-65T	RD	Φ38	160	320	10000	4800	1.65×10^{-4}	0.10	1.0	+1.5 0	510
MH-80T	RD	Φ45	325	650	7000	6500	5.17×10^{-4}	0.10	1.0	+1.8 0	982
MH-95T	RD	Φ50	450	900	6000	8800	11.17×10^{-4}	0.10	1.0	+2.0 0	1 655
MH-105T	RD	Φ55	525	1050	5800	10100	18.8×10^{-4}	0.10	1.0	+2.0 0	2 342
MH-40T	GR	Φ20	21	42	15000	3000	0.21×10^{-4}	0.08	1.0	+1.2 0	1 60
MH-55T	GR	Φ28	75	150	12000	9000	0.76×10^{-4}	0.08	1.0	+1.4 0	321
MH-65T	GR	Φ38	200	400	10000	13500	1.65×10^{-4}	0.08	1.0	+1.5 0	510
MH-80T	GR	Φ45	405	810	7000	14000	5.17×10^{-4}	0.08	1.0	+1.8 0	982
MH-95T	GR	Φ50	560	1120	6000	15200	11.17×10^{-4}	0.08	1.0	+2.0 0	1 655
MH-105T	GR	Φ55	655	1310	5800	50000	4.0×10^{-3}	0.08	1.0	+2.0 0	2 346

When ordering:

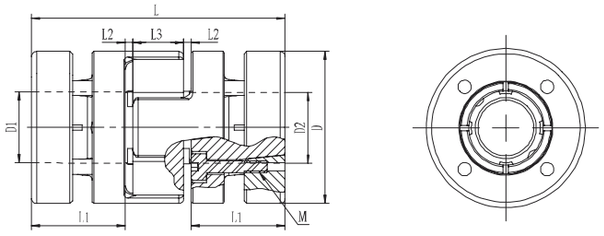
MH-40T - RD-10 x16

- MH-40T — Product model specification
- RD — colour
- 10 x16 — Aperture

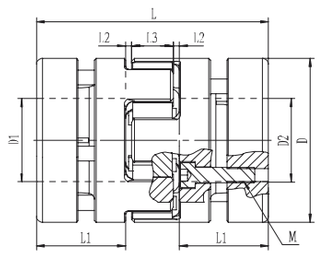
MHS-T Series

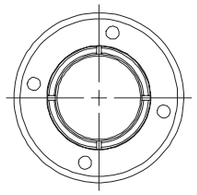
Plum blossom type-expansion sleeve type-coupling (carbon steel)

Outer diameter Φ30



Outer diameter Φ40-Φ135





Specifications

Model	D	L	L1	L2*	L3	M	Number of bolts	M wire Tightening torque (N. M)
MHS-30T	30	50	18.5	1.5	10	M3	4	1.3
MHS-40T	40	66	25	2	12	M4	6	4
MHS-55T	55	78	30	2	14	M5	4	8.5
MHS-65T	65	90	35	2.5	15	M5	8	8.5
MHS-80T	80	114	45	3	18	M6	8	14
MHS-95T	95	126	50	3	20	M8	8	35
MHS-105T	105	140	56.5	3	21	M10	8	68
MHS-120T	120	160	65	3.5	22	M10	8	68
MHS-135T	135	185	75	3.5	26	M12	8	118

* Please be sure to leave L2 size when using

D1 D2 Standard aperture

Model	8	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70
MHS-30T	●	●	●	●	●																						
MHS-40T	●	●	●	●	●	●	●	●	●	●																	
MHS-55T		●	●	●	●	●	●	●	●	●	●	●	●	●													
MHS-65T					●	●	●	●	●	●	●	●	●	●	●	●	●	●									
MHS-80T										●	●	●	●	●	●	●	●	●	●	●	●						
MHS-95T													●	●	●	●	●	●	●	●	●	●	●				
MHS-105T															●	●	●	●	●	●	●	●	●	●			
MHS-120T																	●	●	●	●	●	●	●	●	●	●	
MHS-135T																			●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Elastic spacer / Fastening type	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation: radial deviation	Allowable deviation: angular deviation	Allowable deviation: axial daviation	quality (g)
MHS-30T	YL	Φ14	7.5	15	20000	70	1.0×10^{-5}	0.10	1.0	+1.0 0	154
MHS-40T	YL	Φ20	10	20	15000	560	3.7×10^{-5}	0.10	1.0	+1.2 0	370
MHS-55T	YL	Φ28	35	70	12000	1600	1.7×10^{-4}	0.15	1.0	+1.4 0	798
MHS-65T	YL	Φ38	95	190	10000	3000	3.9×10^{-4}	0.15	1.0	+1.5 0	1213
MHS-80T	YL	Φ45	190	380	10000	5400	1.0×10^{-3}	0.15	1.0	+1.8 0	2347
MHS-95T	YL	Φ50	265	530	8000	6100	2.3×10^{-3}	0.15	1.0	+2.0 0	3839
MHS-105T	YL	Φ55	310	620	5800	7500	5.2×10^{-3}	0.15	1.0	+2.0 0	5218
MHS-30T	RD	Φ14	12.5	25	20000	120	1.0×10^{-5}	0.10	1.0	+1.0 0	154
MHS-40T	RD	Φ20	17	34	15000	1200	3.7×10^{-5}	0.10	1.0	+1.2 0	370
MHS-55T	RD	Φ28	60	120	12000	2400	1.7×10^{-4}	0.10	1.0	+1.4 0	798
MHS-65T	RD	Φ38	160	320	10000	4800	3.9×10^{-4}	0.10	1.0	+1.5 0	1213
MHS-80T	RD	Φ45	325	650	10000	6500	1.0×10^{-3}	0.10	1.0	+1.8 0	2347
MHS-95T	RD	Φ50	450	900	8000	8800	2.3×10^{-3}	0.10	1.0	+2.0 0	3839
MHS-105T	RD	Φ55	525	1050	5800	10100	5.2×10^{-3}	0.10	1.0	+2.0 0	5218
MHS-120T	RD	Φ65	685	1370	6350	38000	10.3×10^{-3}	0.10	1.0	+2.2 0	7680
MHS-135T	RD	Φ70	940	1880	5650	43000	19.1×10^{-3}	0.10	1.0	+2.6 0	11427
MHS-40T	GR	Φ20	21	42	15000	3000	3.7×10^{-5}	0.08	1.0	+1.2 0	370
MHS-55T	GR	Φ28	75	150	12000	9000	1.7×10^{-4}	0.08	1.0	+1.4 0	798
MHS-65T	GR	Φ38	200	400	10000	13500	3.9×10^{-4}	0.08	1.0	+1.5 0	1213
MHS-80T	GR	Φ45	405	810	10000	14000	1.0×10^{-3}	0.08	1.0	+1.8 0	2347
MHS-95T	GR	Φ50	560	1120	8000	15200	2.3×10^{-3}	0.08	1.0	+2.0 0	3839
MHS-105T	GR	Φ55	655	1310	9100	50000	5.2×10^{-3}	0.08	1.0	+2.0 0	5218
MHS-120T	GR	Φ65	825	1650	6350	95000	10.3×10^{3}	0.08	1.0	+2.2 0	7680
MHS-135T	GR	Φ70	1175	2350	5650	105000	19.1×10^{-3}	0.08	1.0	+2.6 0	11427

When ordering:

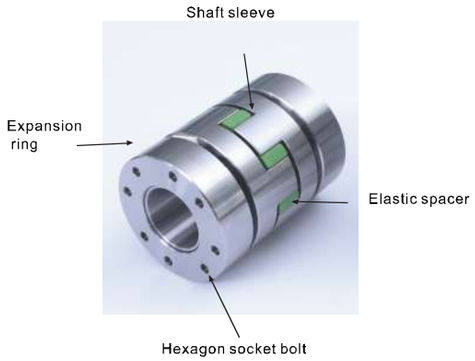
MHS-40T - RD-10 x16

- MHS-40T: Product model specification
- RD: colour
- 10 x16: Aperture

MHS-SP-T (Special for spindle) Series

Couplings Plum Blossom Type - Expansion Sleeve Type (Steel)

Structure



Material

Shaft sleeve	steel
Intermediate	steel
Elastic spacer	Polyurethane
Hexagon socket set screw	SCM435(12.9 level)
	Ferric oxide protective film (black)

Features

- Backlash-free, high-precision expansion sleeve coupling
- Excellent balance
- Suitable for high-speed transmission of the main shaft
- Can absorb vibration
- High torsional rigidity
- High shaft locking force using expansion sleeve connection

The main purpose

- Servo motors, stepper motors, precision motors, etc.
- Machine tools, drilling machines, machining center drives
- Machine tool spindles, high-speed applications

Product model description

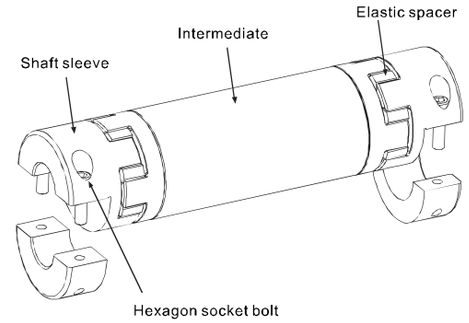
MHS-SP-95T-GR-40x40

Product model specification colour shaft bore

MHL-FC Series

Coupling Long Shaft Type - Clamping Band Separate Type (Aluminum Alloy Tube)

Structure



Material

Shaft sleeve	Aluminum alloy
	Anodizing
Intermediate	Aluminum alloy
	Anodizing
Elastic spacer	Polyurethane
Hexagon socket bolt	SCM435(12.9 level)
	Ferric oxide protective film (black)

Features

- Elastomers of different hardness
- Low inertia, high torsional rigidity
- The clockwise and counterclockwise rotation characteristics are exactly the same
- Can absorb vibrations and compensate for radial, angular and axial deviations
- Oil resistance, electricalinsulation
- Easy to load and unload

The main purpose

- Servo motors, stepper motors, precision motors, etc.
- High-precision position control
- Long-distance power transmission

Product model description

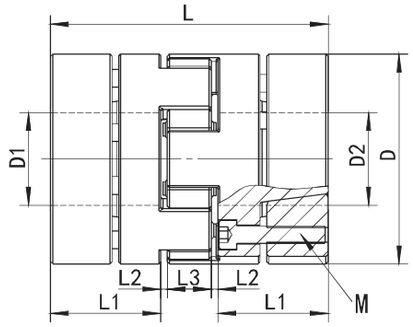
MHL-80FC-38x45-J1500

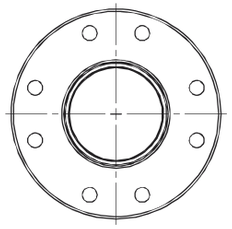
Product model specification Shaft bore Shaft diameter

※ Note: Non-standard hole diameters and keyways can be processed

MHS-SP-T (Special for spindle) Series

Couplings Plum Blossom Type - Expansion Sleeve Type (Steel)





Series of photos:

Specifications

Model	D	L	L1	L2*	L3	M	Number of bolts	Screw tightening torque (N. M)
MHS-SP-65T	65	90	35	2.5	15	M5	8	8.5
MHS-SP-80T	80	114	45	3	18	M6	8	14
MHS-SP-95T	95	126	50	3	20	M8	8	35
MHS-SP-105T	105	140	56.5	3	21	M10	8	68
MHS-SP-120T	120	160	65	3.5	22	M10	8	68
MHS-SP-135T	135	185	75	3.5	26	M12	8	118
MHS-SP-160T	160	210	85	5	30	M12	10	118

* Please be sure to leave L2 size when using

D1 D2 Standard aperture

Model	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	80
MHS-SP-65T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●											
MHS-SP-80T							●	●	●	●	●	●	●	●	●	●	●	●	●							
MHS-SP-95T										●	●	●	●	●	●	●	●	●	●	●						
MHS-SP-105T												●	●	●	●	●	●	●	●	●	●					
MHS-SP-120T														●	●	●	●	●	●	●	●	●	●			
MHS-SP-135T																●	●	●	●	●	●	●	●	●		
MHS-SP-160T																	●	●	●	●	●	●	●	●	●	●

Performance parameter

Model	Elastic spacer Fastening type	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
								radial deviation	angular deviation	axial daviation	
MHS-SP-65T	GR	Φ38	200	380	15000	13500	8.9×10^{-4}	0.08	1.0	+1.5 0	1268
MHS-SP-80T	GR	Φ48	405	810	12000	14000	2.68×10^{-3}	0.08	1.0	+1.8 0	2546
MHS-SP-95T	GR	Φ50	560	1120	10000	15200	6.1×10^{-3}	0.08	1.0	+2.0 0	4216
MHS-SP-105T	GR	Φ55	655	1120	9100	50000	1.01×10^{-2}	0.08	1.0	+2.0 0	5752
MHS-SP-120T	GR	Φ65	825	1650	7900	95000	1.9×10^{-2}	0.08	1.0	+2.2 0	8383
MHS-SP-135T	GR	Φ70	1175	2350	7000	105000	3.6×10^{-2}	0.08	1.0	+2.6 0	12491
MHS-SP-160T	GR	Φ80	2400	4800	5900	182320	7.4×10^{-2}	0.08	1.0	+3.0 0	18662

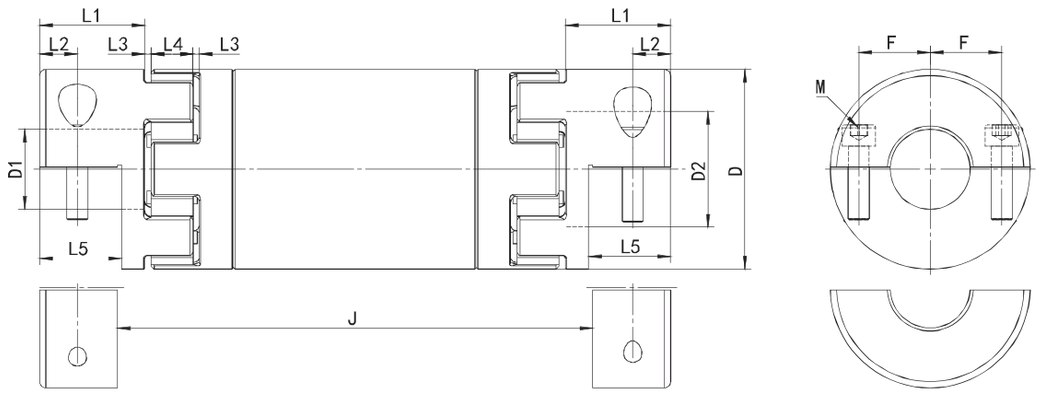
When ordering:

MHS -SP-95 T-GR-40x40

- MHS -SP-95 T: Product model specification
- GR: colour
- 40x40: Aperture

MHL-FC Long Shaft Type

Clamping Band Separate Type - Coupling (Aluminum Alloy Tube)



Specifications

Model	D1-D2 aperture range	D	L1	L2	L3*	L4	L5	J Axle spacing (mm)	F	M	Screw tightening torque (N.M)
MHL-40FC	8-20 22-25	40	25	8.5	2	12	17	According to customer requirements	14 15.75	M5 M4	8 3.5
MHL-55FC	10-28 30-32	55	30	10.5	2	14	21		20 21	M6 M5	13 8
MHL-65FC	14-32 35-38	65	35	13	2.5	15	26		24 25	M8 M6	28 13
MHL-80FC	20-42 45	80	45	15	3	18	32		30 31	M8	28
MHL-95FC	25-48 50-55	95	50	18	3	20	37		34 36	M10	55
MHL-105FC	30-60	105	56.5	19	3	21	39.5		41	M10	55

D1 D2 Standard aperture

Model	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60
MHL-40 FC	●	●	●	●	●	●	●	●	●	●	●	●	●	●												
MHL-55 FC			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									
MHL-65 FC						●	●	●	●	●	●	●	●	●	●	●	●	●	●							
MHL-80 FC											●	●	●	●	●	●	●	●	●	●	●	●				
MHL-95 FC														●	●	●	●	●	●	●	●	●	●	●	●	●
MHL-105FC																●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Model	Maximum aperture (mm)	Rated torque (N.M)		Allowable deviation		
		RD	GR	radial deviation	angular deviation	axial daviation
MHL-40 FC	Φ25	17	21	Determined by the length of J	2	+1.2
MHL-55 FC	Φ32	60	75		2	+1.4
MHL-65 FC	Φ38	160	200		2	+1.5
MHL-80 FC	Φ45	325	405		2	+1.8
MHL-95 FC	Φ55	450	560		2	+2.0
MHL-105FC	Φ60	525	655		2	+2.0

When ordering:

MHL-80FC-RD-35x38-J500

- MHL-80FC: Product model specification
- RD: colour
- 35x38: Aperture
- J500: Axle spacing

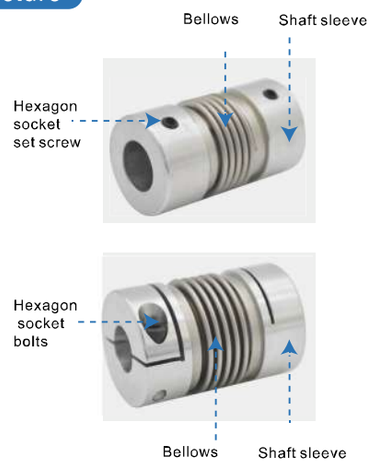
※ Keyway machining

When processing the keyway on the side shaft hole :MHL-80FC-RD-35K-38-J500
When processing the keyway on both sides of the shaft hole: MHL-80FC-RD-35K-38K-J500

For keyway processing parameters, please refer to the keyway dimension table

BWG-G series coupling bellows type - top screw type (high-strength aluminum alloy)
BWG-C series coupling bellows type - clamping type, (high-strength aluminum alloy)

Structure



Material

Shaft sleeve	High strength aluminum alloy
	anodizing treatment
Bellows	stainless steel
	SCM435(12.9 level)
Hexagon socket bolts	SCM435(12.9 level)
	Ferric oxide protective film (black)
Hexagon socket set screw	SCM435(12.9 level)
	Ferric oxide protective film (black)

Features

- Zero rotational clearance
- Bellows allow compensation of radial, angular and axial deviations
- Clockwise and counterclockwise rotation characteristics are identical
- Corrosion resistance
- Top screw fixing method
- Clamping fixing method

The main purpose

- Precision encoder
- XY axis slide
- Semiconductor equipment
- Mechanical equipment

Product model description

BWG-40G - 12 x16

BWG-40C - 12 x16

Product model specification Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

BWGS-T Series
Coupling Bellows Type - Expansion Type (Carbon Steel)

Structure

Material

Shaft sleeve	Carbon steel
	Nickel
Expansion sleeve	Carbon steel
	Nickel
Bellows	stainless steel
Hexagon bolts	SCM435(12.9 level)
	Ferric oxide protective film (black)

Features

- Zero rotational clearance
- Bellows allow compensation of radial, angular and axial deviations
- Clockwise and counterclockwise rotation characteristics are identical
- Corrosion resistance
- Top screw fixing method
- Expansion type fixing method

The main purpose

- Drive of machine tool equipment
- XY axis slide
- Semiconductor equipment
- High speed occasions
- Mechanical equipment

Product model description

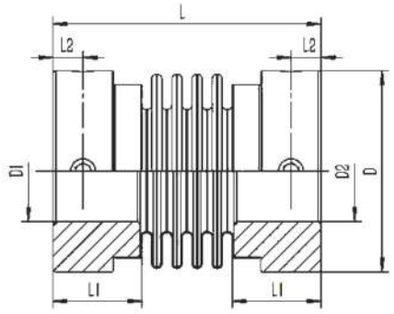
BWGS-80T-28 x35

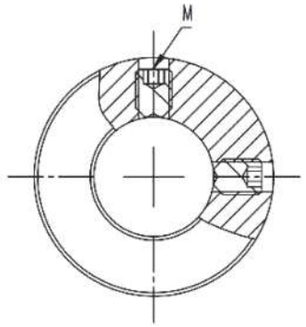
Product model specification Shaft bore

※ Note: Non-standard hole diameters can be processed

Nietz Precision Coupling

BWG-G Bellows-Top-Screw Coupling (High Strength Aluminum Alloy)





Series of photos:

Specifications

Model	D	L	L1	L2	M	Screw tightening torque (N.M)
BWG-16G	16	27.6	9.2	3	M3	1.3
BWG-20G	20	27.4	8.7	3	M3	1.3
BWG-26G	26	31.4	10.7	4	M4	2.5
BWG-32G	32	38.4	11.7	4	M4	2.5
BWG-40G	40	47.4	13.7	5	M5	5

D1 D2 Standard aperture

Model	3	4	5	6	8	10	11	12	14	15	16	18	19	20	22	24	25
BWG-16G	●	●	●	●	●												
BWG-20G	●	●	●	●	●	●											
BWG-26G		●	●	●	●	●	●	●	●								
BWG-32G			●	●	●	●	●	●	●	●	●	●					
BWG-40G				●	●	●	●	●	●	●	●	●	●	●	●	●	●

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial daviation	
BWG-16G	Φ8	1	31000	120	3.3×10^{-7}	0.10	1.5	+0.3 -1.0	9
BWG-20G	Φ10	1.5	23000	180	7.7×10^{-7}	0.15	2	+0.5 -1.5	13
BWG-26G	Φ14	2	19000	750	2.8×10^{-6}	0.15	2	+0.5 -1.5	26
BWG-32G	Φ18	4	14000	1600	9.1×10^{-6}	0.20	2	+0.7 -2.0	53
BWG-40G	Φ25	10	11000	2700	2.3×10^{-6}	0.20	2	+0.7 -2.0	82

When ordering: **BWG-40G - 12 x16**

Product model specification

Aperture

※ Keyway machining

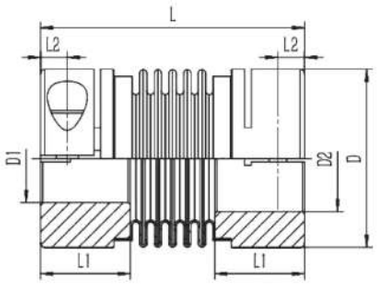
When processing keyway on both sides of the shaft hole: BWG-40G-12Kx16K

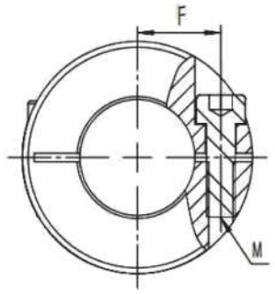
Please refer to the keyway size table for keyway processing parameters

Bellows Type

BWG-C bellows type - clamping type - coupling (high-strength aluminum alloy)

BWGD-C bellows type - clamping type (short and small) - coupling (high-strength aluminum alloy)





Specifications

Model	D	L	L1	L2	F	M	Screw tightening torque (N.M)
BWG-16C	16	32	11.4	3	5.2	M2.5	1
BWG-20C	20	32.4	11.2	3	7.1	M2.5	1
BWG-26C	26	36	13	3.6	9	M3	1.5
BWG-32C	32	47.4	16.2	4.5	12	M4	2.5
BWG-40C	40	60.4	20.2	6	14.5 15.5	M5 M4	5 2.5
BWG-55C	55	70.4	23.8	7	20.5	M6	8
BWG-65C	65	83.3	30	9	25	M8	25
BWG-80C	81	108.4	36.2	11.5	29.5	M10	40
BWG-90C	90	119.3	41	12.8	33	M12	90
BWG-110C	110	130	43	13	42	M12	90
BWGD-110C	110	116	43	13	42	M12	90

D1 D2 Standard aperture

Model	3	4	5	6	8	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60
BWG-16C	●	●	●	●																									
BWG-20C	●	●	●	●	●																								
BWG-26C		●	●	●	●	●	●	●																					
BWG-32C			●	●	●	●	●	●	●	●	●																		
BWG-40C			●	●	●	●	●	●	●	●	●	●	●	●	●	●													
BWG-55C						●	●	●	●	●	●	●	●	●	●	●	●	●	●										
BWG-65C								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
BWG-80C									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
BWG-90C														●	●	●	●	●	●	●	●	●	●	●	●				
BWG-110C																●	●	●	●	●	●	●	●	●	●	●	●	●	●
BWGD-110C																●	●	●	●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial daviation	
BWG-16C	Φ6	1	31000	120	4.2×10^{-7}	0.10	1.5	+0.3 -1.0	12
BWG-20C	Φ8	1.5	23000	180	9.8×10^{-7}	0.15	2	+0.5 -1.5	17
BWG-26C	Φ12	2	19000	750	3.3×10^{-6}	0.15	2	+0.5 -1.5	33
BWG-32C	Φ16	4.5	14000	1600	1.2×10^{-5}	0.20	2	+0.7 -2.0	70
BWG-40C	Φ24	10	11000	2700	3.1×10^{-5}	0.20	2	+0.7 -2.0	112
BWG-55C	Φ30	30	8700	27000	1.4×10^{-4}	0.20	2	+0.7 -2.0	291
BWG-65C	Φ38	60	7350	54000	3.4×10^{-4}	0.20	2	+0.7 -2.0	473
BWG-80C	Φ42	150	5750	84000	9.9×10^{-4}	0.25	2	+1.0 -3.0	917
BWG-90C	Φ45	200	4900	135000	1.6×10^{-3}	0.25	2	+1.0 -3.0	1221
BWG-110C	Φ60	300	4000	340000	3.7×10^{-3}	0.3	2	+1.0 -3.0	1890
BWGD-110C	Φ60	300	4000	340000	3.5×10^{-3}	0.25	2	+1.0 -3.0	1790

When ordering: **BWG-40C - 12 x16**

Model — Aperture

※ Keyway machining

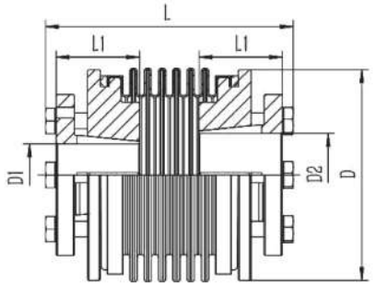
When processing keyway on one side of the shaft hole: BWG-40C-12Kx16
When processing keyway on both sides of the shaft hole: BWG-40C-12Kx16K

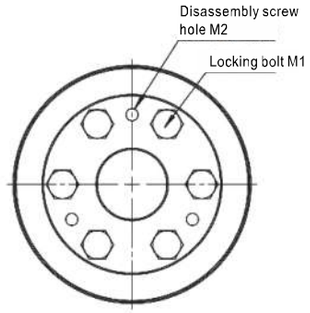
Please refer to the keyway size table for keyway processing parameters

Bellows Type

Nietz Precision Coupling

BWGSD-T bellows type - expansion type (short size) - coupling (carbon steel)
BWGS-T bellows type - expansion type - coupling (carbon steel)





Series of photos:

Specifications

Model	D	L	L1	M1	M2	Screw tightening torque (N•M)
BWGS-80T	81	96	31	M6	M5	12
BWGS-90T	90	101.3	33	M6	M5	14
BWGS-110T	110	123	40	M8	M6	18
BWGSD-110T	110	109	40	M8	M6	18
BWGS-124T	124	121	40	M8	M6	25

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial daviation	
BWGS-80T	Φ38	150	7500	110000	1.2×10^{-3}	0.25	2	+1.0 -3.0	1377
BWGS-90T	Φ45	200	7000	140000	1.9×10^{-7}	0.25	2	+1.0 -3.0	1674
BWGS-110T	Φ55	300	5200	350000	5.5×10^{-3}	0.3	2	+1.0 -3.0	3230
BWGSD-110T	Φ55	300	5200	350000	5.2×10^{-3}	0.25	2	+1.0 -3.0	3160
BWGS-124T	Φ60	500	4600	500000	8.1×10^{-3}	0.35	2	+1.0 -3.0	3852

D1 D2 Standard aperture

Model	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60
BWGS-80T	●	●	●	●	●	●	●	●	●	●	●	●	●							
BWGS-90T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
BWGS-110T							●	●	●	●	●	●	●	●	●	●	●	●	●	
BWGSD-110T							●	●	●	●	●	●	●	●	●	●	●	●	●	
BWGS-124T							●	●	●	●	●	●	●	●	●	●	●	●	●	●

When ordering: **BWGS-80T - 28x35**

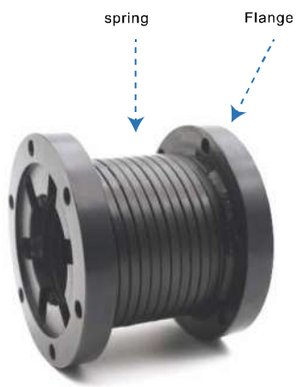
Model — Aperture

Bellows Type

TH-FL Series

Coupling Spring Type - Flange Type

Structure



Material

Flange	steel
	blackening
spring	Three-layer rectangular section spring
	blackening

Features

- High torque rigidity
- Compensated radial, angular and axial deviations
- Easy to load and unload
- Flange connection

The main purpose

- General motors
- Vacuum equipment
- Medical equipment
- Printing machinery

Product model description

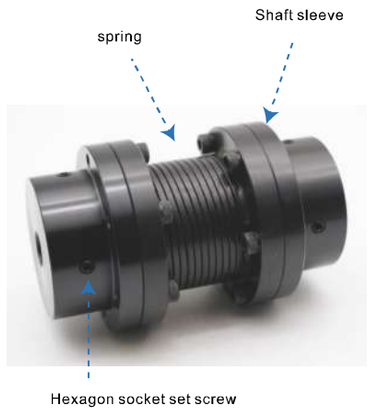
TH-85FL

Product model specification

TH-G Series

Coupling Spring Type - Top Screw Type

Structure



Material

Flange	steel
	blackening
spring	Three-layer rectangular section spring
	blackening
Hexagon socket set screw	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- High torque rigidity
- Compensated radial, angular and axial deviations
- Easy to load and unload
- Fixing method with top screw

The main purpose

- General motors
- Vacuum equipment
- Medical equipment
- Printing machinery

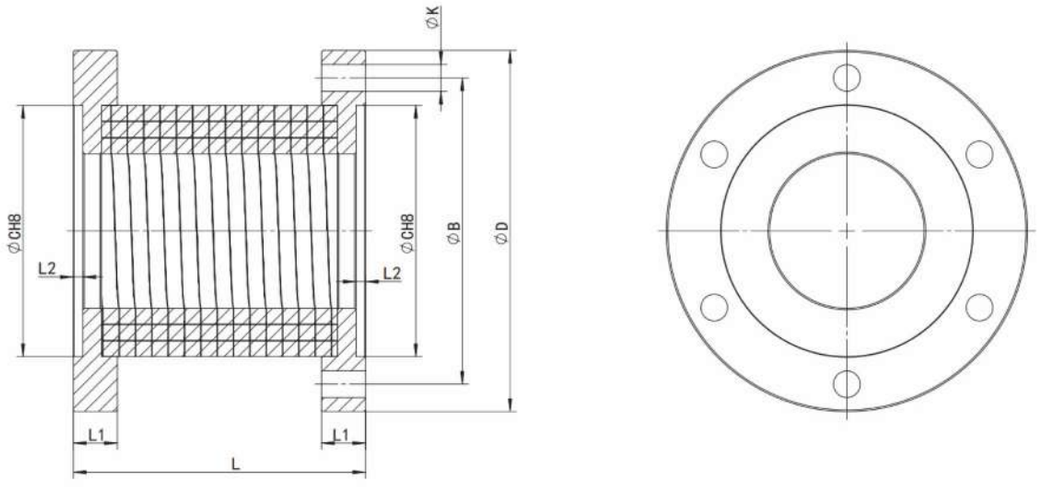
Product model description

TH-G-85G - 25x25

Product model specification Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

TH-FL Spring Type - Flange Type - Coupling



Specifications

Model	D	L	L1	L2	C	B	K
TH-75FL	75	48.5	10	1.5	50	62.5	5.8
TH-85FL	85	63.8	11	2.0	60	72.5	7
TH-100FL	100	85	13	2.5	75	87.5	7
TH-115FL	115	93	14	3.0	80	97.5	8.5

Series of photos:

Performance parameter

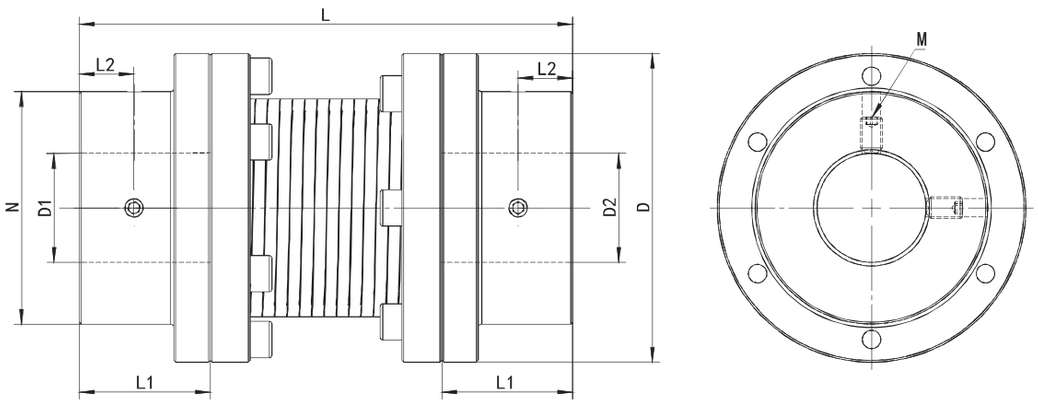
Model	Rated torque (N.M)	Maximum aperture (mm)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
						radial deviation	angular deviation	axial daviation	
TH-75FL	90	180	6000	3438	5.07×10^{-4}	0.8	3	+2.0	666
TH-85FL	150	300	5000	4297	1.0×10^{-3}	1.0	3	+2.5	1086
TH-100FL	220	440	4500	6303	2.7×10^{-3}	1.3	3	+3.2	2146
TH-115FL	280	560	4000	6865	4.8×10^{-3}	1.6	3	+3.5	3016

When ordering:

TH-85FL

Model

TH-G Spring Type - Top Screw Type - Coupling



Specifications

Model	D	L	N	L1	L2	M	Screw tightening torque (N•M)
TH-75G	75	110.5	54	31	15	M6	7.0
TH-85G	85	135.8	65	36	15	M6	7.0
TH-100G	100	165	80	40	15	M8	15
TH-115G	115	185	85	46	15	M8	15

D1 D2 Standard aperture

Model	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40
TH-75G	•	•	•	•	•	•	•	•	•	•	•	•						
TH-85G					•	•	•	•	•	•	•	•	•	•				
TH-100G									•	•	•	•	•	•	•	•		
TH-115G												•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
							radial deviation	angular deviation	axial daviation	
TH-75G	Φ25	90	180	6000	3438	1.24×10^{-3}	0.8	3	+2.0	1884
TH-85G	Φ30	150	300	5000	4297	2.57×10^{-3}	1.0	3	+2.5	2993
TH-100G	Φ35	220	440	4500	6303	6.4×10^{-3}	1.3	3	+3.2	5333
TH-115G	Φ40	280	560	4000	6865	1.1×10^{-4}	1.6	3	+3.5	7311

When ordering:

TH-85G - 25X25

Model — Aperture

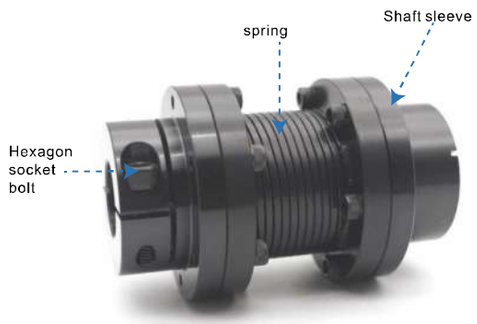
※ Keyway machining

When processing the keyway on the side shaft hole :TH-85G-25KX25
When processing the keyway on both sides of the shaft hole:TH-85G-25KX25K

Please refer to the keyway size table for keyway processing parameters

TH-C Series Coupling Spring Type_Clamp Type

Structure



Material

Shaft sleeve	steel
	blackening
spring	Three-layer rectangular section spring
	blackening
Hexagon socket set screw	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- High torque rigidity
- Compensated radial, angular and axial deviations
- Easy to load and unload
- Clamping screw fixing method

The main purpose

- General motors
- Vacuum equipment
- Medical equipment
- Printing machinery

Product model description

TH-85G - 25x25

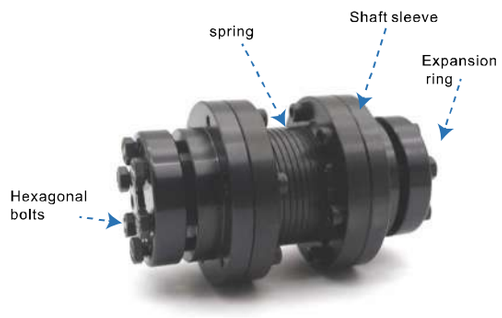
Product model specification Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

Nietz Precision Coupling

TH-T Series Coupling Spring Type_Expansion Type

Structure



Material

Shaft sleeve	steel
	blackening
Expansion ring	steel
	blackening
spring	Three-layer rectangular section spring
	blackening
Hexagon socket set screw	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- High torque rigidity
- Compensated radial, angular and axial deviations
- Easy to load and unload
- Expansion fixing method

The main purpose

- General motors
- Vacuum equipment
- Medical equipment
- Printing machinery

Product model description

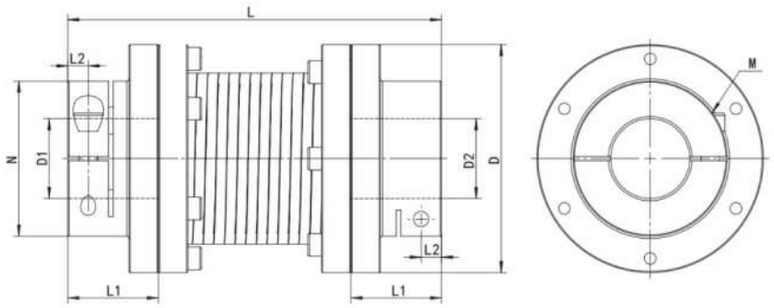
TH-85T - 25x25

Product model specification Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

Spring type

TH-C Spring Type Clamping Coupling



Specifications

Model	D	L	N	L1	L2	M	Screw tightening torque (N•M)
TH-75C	75	110.5	54	31	9	M8	28
TH-85C	85	135.8	60	36	9	M8	28
TH-100C	100	165	68	40	9	M8	28
TH-115C	115	185	82	46	9	M8	28

D1 D2 Standard aperture

Model	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40
TH-75C	•	•	•	•	•	•	•	•	•	•	•	•						
TH-85C					•	•	•	•	•	•	•	•	•	•				
TH-100C									•	•	•	•	•	•	•	•		
TH-115C												•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum aperture (mm)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
							radial deviation	angular deviation	axial daviation	
TH-75C	Φ25	90	180	6000	3438	1.2×10^{-3}	0.8	3	+2.0	1839
TH-85C	Φ30	150	300	5000	4297	2.3×10^{-3}	1.0	3	+2.5	2786
TH-100C	Φ35	220	440	4500	6303	5.7×10^{-3}	1.3	3	+3.2	4788
TH-115C	Φ40	280	560	4000	6865	1.1×10^{-2}	1.6	3	+3.5	7218

When ordering:

TH-85C - 25X25

Model — Aperture

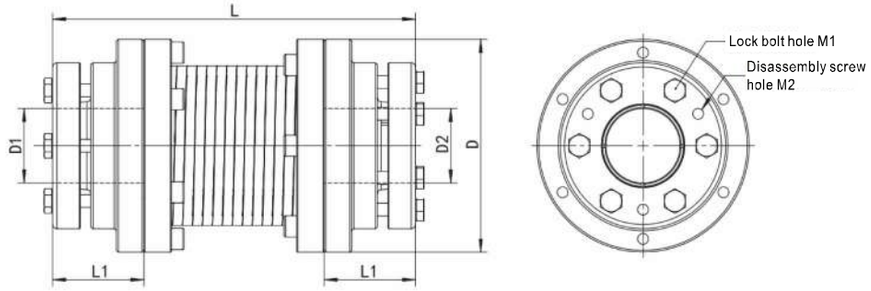
※ Keyway machining

When processing keyway on one side of the shaft hole: TH-85C-25KX25
When processing keyway on both sides of the shaft hole: TH-85C-25KX25K

Please refer to the keyway size table for keyway processing parameters

Nietz Precision Coupling

TH-T Spring Type Expansion Coupling



Specifications

Model	D	L	L1	M1	M2	Screw tightening torque (N•M)
TH-75T	75	117.5	34.5	M6	M6	10
TH-85T	85	135.8	36	M6	M6	10
TH-100T	100	171	43	M6	M6	10
TH-115T	115	185	46	M6	M6	10

D1 D2 Standard aperture

Model	15	16	18	19	20	22	24	25	28	30	32	35	38	40
TH-75T	•	•	•	•	•	•	•	•						
TH-85T	•	•	•	•	•	•	•	•	•	•				
TH-100T					•	•	•	•	•	•	•	•		
TH-115T								•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
							radial deviation	angular deviation	axial daviation	
TH-75T	Φ25	90	180	6000	3438	1.2×10^{-3}	0.8	3	+2.0	1891
TH-85T	Φ30	150	300	5000	4297	2.4×10^{-3}	1.0	3	+2.5	2858
TH-100T	Φ35	220	440	4500	6303	6.3×10^{-3}	1.3	3	+3.2	5239
TH-115T	Φ40	280	560	4000	6865	1.1×10^{-2}	1.6	3	+3.5	7143

When ordering:

TH-85T - 25X25

Model — Aperture

Spring type

XFD-G Series Coupling Slit Type - Top wire Type (Short)

Structure

Material

main body	High strength aluminum alloy
	anodizing treatment
Hexagon socket set screw	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Zero backlash
- The spring effect formed by slit cutting can absorb eccentricity, angular deviation and axial deviation
- High torque rigidity and torque
- Low inertia and fast response speed
- The clockwise and counterclockwise rotation characteristics are exactly the same
- Good oil resistance and chemical resistance
- Top screw fixing method

The main purpose

- Servo motors, stepper motors, small motors
- Precision encoders
- High-speed, precision position control
- Copiers, information communications, audio equipment
- XY axis slides, indexing tables

Slit type

Product model description

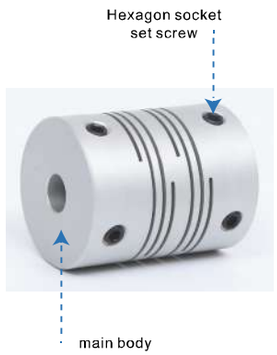
XFD-32G - 12-14

Product model specification Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

XF-G Series Coupling Slit Type - Top wire Type

Structure



Material

main body	High strength aluminum alloy
	anodizing treatment
Hexagon socket set screw	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Zero backlash
- The spring effect formed by slit cutting can absorb eccentricity, angular deviation and axial deviation
- High torque rigidity and torque
- Low inertia and fast response speed
- Identical clockwise and counterclockwise rotation characteristics
- Good oil resistance and chemical resistance
- Top screw fixing method

The main purpose

- Servo motors, stepper motors, small motors
- Precision encoders
- High-speed, precision position control
- Copiers, information communications, audio equipment
- XY axis slides, indexing tables

Slit type

Product model description

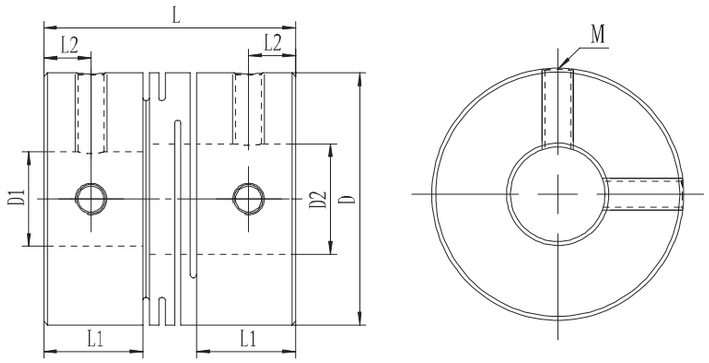
XF-32G - 12-14

Product model specification Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

Nietz Precision Coupling

XFD-G Slit type - top wire type - (short and small) coupling



Specifications

Model	D	L	L1	L2	M	Screw tightening torque (N•M)
XFD-12G	12	14	5.2	2.5	M2.5	0.5
XFD-16G	16	18	6.8	3	M3	0.7
XFD-20G	20	20	7.65	3	M3	0.7
XFD-25G	25	25	9.6	4	M4	1.7
XFD-32G	32	32	12.6	6	M4	1.7

D1 D2 Standard aperture

Model	3	4	5	6	7	8	10	11	12	14	15	16
XFD-12G	●	●	●	●								
XFD-16G		●	●	●	●	●						
XFD-20G			●	●	●	●	●					
XFD-25G			●	●	●	●	●	●	●			
XFD-32G				●	●	●	●	●	●	●	●	●

Slit type

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation		quality (g)
							angular deviation	axial daviation	
XFD-12G	Φ6	0.5	1	15000	75	6.8×10^{-8}	1	±0.1	3
XFD-16G	Φ8	0.6	1.2	12000	186	3.0×10^{-7}	1	±0.2	7
XFD-20G	Φ10	1.1	2.2	10000	210	7.2×10^{-7}	1	±0.2	13
XFD-25G	Φ12	1.8	3.6	8000	750	2.2×10^{-6}	1	±0.2	26
XFD-32G	Φ16	3.8	7.6	6000	1050	7.6×10^{-6}	1	±0.2	51

When ordering: **XFD-32G-12-14**

Model: XFD-32G　　Aperture: 12-14

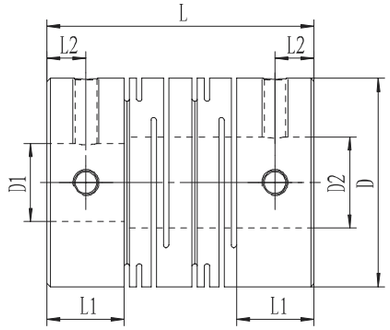
※ Keyway machining

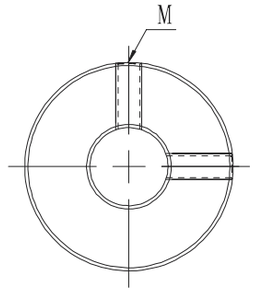
When processing the keyway on the side shaft hole : XFD-32G-12Kx14
When processing the keyway on both sides of the shaft hole: XFD-32G-12Kx14K

Please refer to the keyway size table for keyway processing parameters

Slit type

XF-G Slit-type-top-screw-type-coupling





Specifications

Model	D	L	L1	L2	M	Screw tightening torque (N•M)
XF-12G	12	18.5	5	2.5	M2.5	0.5
XF-16G	16	23	6.5	3	M3	0.7
XF-20G	20	26	7.5	3	M3	0.7
XF-25G	25	31	8.5	4	M4	1.7
XF-32G	32	41	11.9	6	M4	1.7
XF-40G	40	56	17	8.5	M5	4
XF-50G	50	71	21	10.5	M6	7
XF-63G	63	90	26	13	M8	15

D1 D2 Standard aperture

Model	3	4	5	6	7	8	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35
XF-12G	•	•	•	•																		
XF-16G		•	•	•	•	•																
XF-20G			•	•	•	•	•															
XF-25G			•	•	•	•	•	•	•													
XF-32G				•	•	•	•	•	•	•	•	•										
XF-40G						•	•	•	•	•	•	•	•	•	•							
XF-50G									•	•	•	•	•	•	•	•	•	•				
XF-63G										•	•	•	•	•	•	•	•	•	•	•	•	•

Nietz Precision Coupling

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Moment of inertia (KG·M2)	Allowable deviation		quality (g)
								angular deviation	axial daviation	
XF-12G	Φ6	0.5	1	15000	48	8.5×10^{-8}	0.10	2	±0.3	4
XF-16G	Φ8	0.6	1.2	12000	88	4.0×10^{-7}	0.10	2	±0.4	8
XF-20G	Φ10	1.1	2.2	10000	176	8.0×10^{-7}	0.10	2	±0.4	15
XF-25G	Φ12	1.8	3.6	8000	370	3.2×10^{-6}	0.15	2	±0.5	29
XF-32G	Φ16	3.8	7.6	6000	490	8.5×10^{-6}	0.15	2	±0.5	62
XF-40G	Φ20	8	16	5000	700	3.3×10^{-5}	0.20	2	±0.5	132
XF-50G	Φ25	16	32	4000	1800	1.0×10^{-4}	0.20	2	±0.5	268
XF-63G	Φ35	32	64	3000	3000	3.3×10^{-4}	0.20	2	±0.5	501

When ordering:

XF-32G-12-14

Model　　Aperture

※ Keyway machining

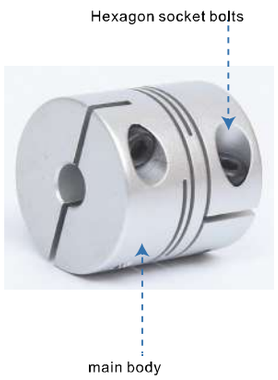
When processing the keyway on the side shaft hole : XF-32G-12Kx14
When processing the keyway on both sides of the shaft hole: XF-32G-12Kx14K

Please refer to the keyway size table for keyway processing parameters

Slit type

XFD-C Series Coupling Slit Type - Clamping Type (Short)

Structure



Material

main body	High strength aluminum alloy
	anodizing treatment
Hexagon socket bolts	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Zero backlash
- The spring effect formed by slit cutting can absorb eccentricity, angular deviation and axial deviation
- High torque rigidity and torque
- Low inertia and fast response speed
- Identical clockwise and counterclockwise rotation characteristics
- Good oil resistance and chemical resistance
- Clamping screw fixing method

The main purpose

- Servo motors, stepper motors, small motors
- Precision encoders
- High-speed, precision position control
- Copiers, information communications, audio equipment
- XY axis slides, indexing tables

Slit type

Product model description

XFD-32C - 12-14

Product model specification Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

XF-C Series Couplings Slit Type - Clamping Type

Structure

Material

main body	High strength aluminum alloy
	anodizing treatment
Hexagon socket bolts	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Zero backlash
- The spring effect formed by slit cutting can absorb eccentricity, angular deviation and axial deviation
- High torque rigidity and torque
- Low inertia and fast response speed
- Identical clockwise and counterclockwise rotation characteristics
- Good oil resistance and chemical resistance
- Clamping screw fixing method

The main purpose

- Servo motors, stepper motors, small motors
- Precision encoders
- High-speed, precision position control
- Copiers, information communications, audio equipment
- XY axis slides, indexing tables

Slit type

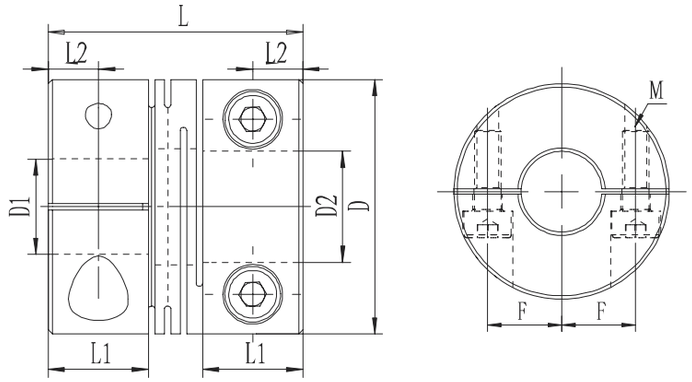
Product model description

XF-32C - 12-14

Product model specification Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

XFD-C Slit-type-clamping-(short and small) coupling



Specifications

Model	D	L	L1	L2	F	M	Screw tightening torque (N•M)
XFD-12C	12	14	5.2	2.6	4	M2	0.5
XFD-16C	16	18	6.8	3.4	5	M2.5	1
XFD-20C	20	20	7.65	3.8	6.5	M2.5	1
XFD-25C	25	25	9.6	4.8	9	M3	1.5
XFD-32C	32	32	12.6	6.3	11	M4	2.5

D1 D2 Standard aperture

Model	4	5	6	7	8	10	11	12	14
XFD-12C	•	•							
XFD-16C	•	•	•						
XFD-20C		•	•	•	•				
XFD-25C		•	•	•	•	•			
XFD-32C					•	•	•	•	•

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation		quality (g)
							angular deviation	axial daviation	
XFD-12C	Φ5	0.5	1	15000	75	6.3×10^{-8}	1	±0.1	4
XFD-16C	Φ6	0.6	1.2	12000	186	3.1×10^{-7}	1	±0.2	8
XFD-20C	Φ8	1.1	2.2	10000	210	7.7×10^{-7}	1	±0.2	14
XFD-25C	Φ10	1.8	3.6	8000	750	2.1×10^{-6}	1	±0.2	27
XFD-32C	Φ14	3.8	7.6	6000	1050	7.9×10^{-6}	1	±0.2	56

When ordering: **XFD-32C-12-14**

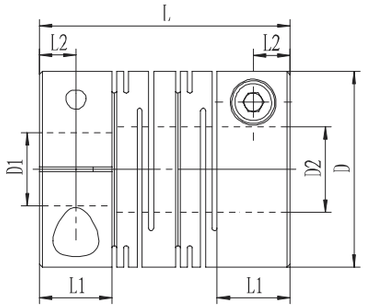
Model — Aperture

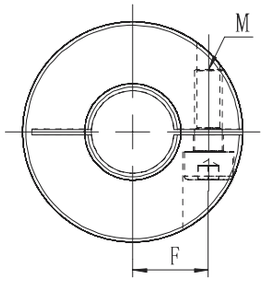
※ Keyway machining

When processing the keyway on the side shaft hole : XFD-32C-12Kx14
When processing the keyway on both sides of the shaft hole: XFD-32C-12Kx14K

Please refer to the keyway size table for keyway processing parameters

XF-C Slit Type Clamping Coupling





Specifications

Model	D	L	L1	L2	F	M	Screw tightening torque (N•M)
XF-12C	12	18.5	5	2.5	4	M2	0.5
XF-16C	16	23	6.5	3.25	5	M2.5	1
XF-20C	20	26	7.5	3.75	6.5	M2.5	1
XF-25C	25	31	8.5	4.25	9	M3	1.5
XF-32C	32	41	11.9	6	11	M4	2.5
XF-40C	40	56	17	8.5	14	M5	4
XF-50C	50	71	21	10.5	18	M6	8
XF-63C	63	90	26	13	24	M8	16

D1 D2 Standard aperture

Model	4	5	6	7	8	10	11	12	14	15	16	18	19	20	22	24	25	28	30
XF-12C	●	●																	
XF-16C	●	●	●																
XF-20C		●	●	●	●														
XF-25C		●	●	●	●	●													
XF-32C					●	●	●	●	●										
XF-40C					●	●	●	●	●	●	●	●							
XF-50C								●	●	●	●	●	●	●	●				
XF-63C									●	●	●	●	●	●	●	●	●	●	●

Nietz Precision Coupling

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation			quality (g)
							radial deviation	angular deviation	axial daviation	
XF-12C	Φ5	0.5	1	15000	48	7.5×10^{-8}	0.10	2	±0.3	4
XF-16C	Φ6	0.6	1.2	12000	88	3.1×10^{-7}	0.10	2	±0.4	9
XF-20C	Φ8	1.1	2.2	10000	176	8.6×10^{-7}	0.10	2	±0.4	17
XF-25C	Φ10	1.8	3.6	8000	370	2.4×10^{-6}	0.15	2	±0.5	31
XF-32C	Φ14	3.8	7.6	6000	490	9.4×10^{-6}	0.15	2	±0.5	65
XF-40C	Φ18	8	16	5000	700	3.4×10^{-5}	0.20	2	±0.5	139
XF-50C	Φ22	16	32	4000	1800	1.1×10^{-4}	0.20	2	±0.5	290
XF-63C	Φ32	32	64	3000	3000	3.4×10^{-4}	0.20	2	±0.5	556

When ordering:

XF-32C-12-14

Model　　Aperture

※ Keyway machining

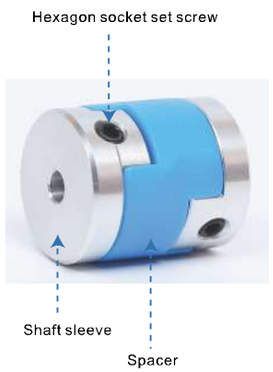
When processing keyway on one side of the shaft hole: XF-32C-12Kx14
When processing keyway on both sides of the shaft hole: XF-32C-12Kx14K

Please refer to the keyway size table for keyway processing parameters

Slit type

HK-G Series Couplings Cross Slider Type - Top Screw Type

Structure



Material

Shaft sleeve	High strength aluminum alloy
	anodizing treatment
Spacer	Polyurethane
Hexagon socket set screw	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Cross slider connection
- Allows large radial and angular deviations
- Low inertia, high torque rigidity
- Non-magnetic
- Electrical insulation effect
- Easy to load and unload
- Top screw fixing method

The main purpose

- Servo motors, stepper motors, AC motors, DC motors, various small motors
- Transmission equipment
- Precision encoders
- Environmental equipment, small water pumps
- Air conditioning equipment, optical systems

Product model description

HK-40G - 12X16

Product model specification — Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

HKD-C series coupling, cross slider type - clamping type (short size)
HK-C series coupling, cross slider type - clamping type

Structure

Material

Shaft sleeve	High strength aluminum alloy
	anodizing treatment
Spacer	Polyurethane
Hexagon socket set screw	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Cross slider connection
- Allows large radial and angular deviations
- Low inertia, high torque rigidity
- Non-magnetic
- Electrical insulation effect
- Easy to load and unload
- Clamping screw fixing method

The main purpose

- Servo motors, stepper motors, AC motors, DC motors, various small motors
- Transmission equipment
- Precision encoders
- Environmental equipment, small water pumps
- Air conditioning equipment, optical systems

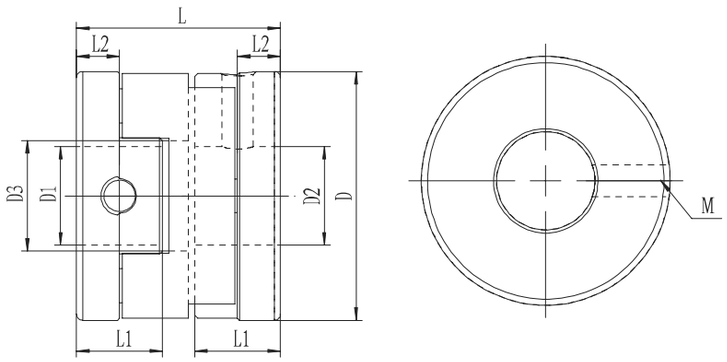
Product model description

HKD-20C - 8 x8

Product model specification — Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

HK-G Cross Slider Type - Top Screw Type - Coupling



Specifications

Model	D	D3	L	L1	L2	M	Screw tightening torque (N•M)
HK-16G	16	7.9	19.3	7	3.5	M3	0.7
HK-20G	20.5	9.8	24	9	4.5	M4	1.7
HK-25G	25	10.9	28.6	11	5.5	M5	4
HK-32G	32	14.1	33.7	13	6.5	M6	7
HK-40G	40.5	18	33.2	14	7	M6	7
HK-50G	50	23	38	17	8.5	M8	15
HK-63G	63	28	47	21	10.5	M10	30

D1 D2 Standard aperture

Model	3	4	5	6	6.35	8	9.525	10	12	14	15	16	18	20	25
HK-16G	●	●	●	●	●										
HK-20G		●	●	●	●	●									
HK-25G			●	●	●	●	●	●							
HK-32G						●		●	●	●					
HK-40G								●	●	●	●	●			
HK-50G										●	●	●	●	●	
HK-63G												●	●	●	●

Nietz Precision Coupling

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation		quality (g)
							axial daviation	angular deviation	
HK-16G	Φ6.35	0.8	1.6	12000	29	3.1×10^{-7}	1.0	3	7
HK-20G	Φ8	1.1	2.2	11000	55	1.6×10^{-6}	1.5	3	15
HK-25G	Φ10	1.8	3.6	10000	130	2.8×10^{-6}	2.0	3	26
HK-32G	Φ14	4	8	9000	290	9.3×10^{-6}	2.5	3	48
HK-40G	Φ16	10	20	8000	520	2.1×10^{-5}	3.0	3	82
HK-50G	Φ20	18	36	7000	820	6.7×10^{-5}	3.5	3	148
HK-63G	Φ25	36	72	6000	1900	2.2×10^{4}	4.0	3	292

When ordering: **HK-40G - 12x16**

Model — Aperture

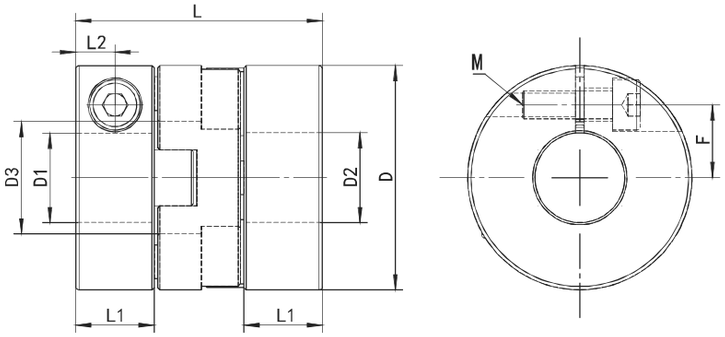
※ Keyway machining

When processing the keyway on the side shaft hole : HK-40G-12Kx16
When processing the keyway on both sides of the shaft hole: HK-40G-12Kx16K

For keyway processing parameters, please refer to the keyway dimension table

Cross slider type

HKD-C Series Coupling Oldham Slider Type - Clamping Type (Short Size)



Specifications

Model	D	L	D3	L1	L2	F	M	Screw tightening torque (N•M)
HKD-12C	12	16	6	5	2.5	4	M2	0.5
HKD-16C	16	21	8	7	3.5	5	M2.5	1
HKD-20C	20	22	10	7	3.5	6.5	M2.5	1
HKD-25C	25	28	12	8	4	9	M3	1.5
HKD-32C	32	35	16	10	5	11	M4	2.5

D1 D2 Standard aperture

Model	3	4	5	6	6.35	8	9.525	10	12	14
HKD-12C	•	•	•							
HKD-16C	•	•	•	•						
HKD-20C			•	•	•	•				
HKD-25C				•	•	•	•			
HKD-32C				•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation		quality (g)
							axial daviation	angular deviation	
HKD-12C	Φ5	0.3	0.6	15000	10	7.9×10^{-8}	0.6	2	3.6
HKD-16C	Φ6	0.5	1.0	12000	29	3.3×10^{-7}	1.0	2	8.9
HKD-20C	Φ8	0.8	1.6	11000	55	7.9×10^{-7}	1.5	2	13.6
HKD-25C	Φ10	1.5	3	10000	100	2.4×10^{-6}	2	2	26
HKD-32C	Φ14	3	6	9000	210	7.8×10^{-6}	2.5	2	52

When ordering:

HKD-20C - 8x8

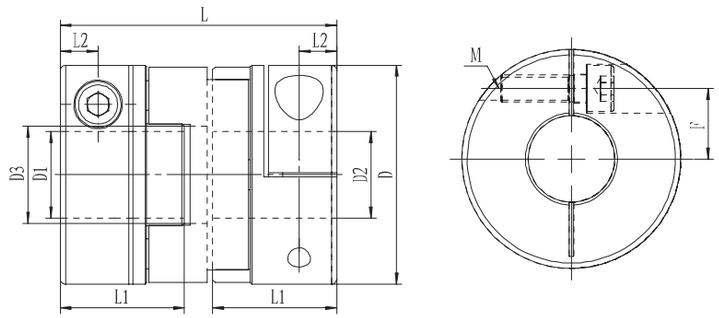
Model — Aperture

※ Keyway machining

When processing the keyway on the side shaft hole : HKD-20C-8kx8
When processing the keyway on both sides of the shaft hole: HKD-20C-8kx8K

For keyway processing parameters, please refer to the keyway dimension table

HK-C Cross Slider Type - Clamping Type - Coupling



Specifications

Model	D	D3	L	L1	L2	F	M	Screw tightening torque (N•M)
HK-16C	16	7.9	30.3	12.5	3	5	M2.5	1
HK-20C	20.5	9.8	34	14	3	6.5	M2.5	1
HK-25C	25	10.9	39.6	16.5	3.8	9	M3	1.5
HK-32C	32	14.1	45.7	19	4.5	11	M4	2.5
HK-40C	40.5	18	51.2	23	7	13	M5	4
HK-50C	50	23	58	27	8	16	M6	8
HK-63C	63	28	71	33	10	21	M8	16

D1 D2 Standard aperture

Model	5	6	6.35	8	10	11	12	14	15	16	18	20	25
HK-16C	●	●											
HK-20C		●	●	●									
HK-25C			●	●	●								
HK-32C				●	●	●	●	●					
HK-40C							●	●	●	●			
HK-50C										●	●	●	
HK-63C											●	●	●

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation		quality (g)
							axial daviation	angular deviation	
HK-16C	Φ6	0.8	1.6	12000	29	5.6×10^{-7}	1.0	3	12
HK-20C	Φ8	1.1	2.2	11000	55	1.3×10^{-6}	1.5	3	21
HK-25C	Φ10	1.8	3.6	10000	130	4.2×10^{-6}	2.0	3	37
HK-32C	Φ14	4	8	9000	290	1.7×10^{-5}	2.5	3	67
HK-40C	Φ16	10	20	8000	520	4.0×10^{-5}	3.0	3	133
HK-50C	Φ20	18	36	7000	820	1.2×10^{-4}	3.5	3	234
HK-63C	Φ25	36	72	6000	1900	3.7×10^{4}	4.0	3	461

When ordering:

HK-40C - 12x16

Model — Aperture

※ Keyway machining

When processing the keyway on the side shaft hole : HK-40C-12Kx16
When processing the keyway on both sides of the shaft hole: HK-40C-12Kx16K

For keyway processing parameters, please refer to the keyway dimension table

HKS-G Series Coupling Cross Slider Type - Top Screw Type

Structure

Material

Shaft sleeve	stainless steel
Spacer	Polyurethane
Hexagon socket set screw	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Cross slider connection
- Allows large radial and angular deviations
- Low inertia, high torque rigidity
- Non-magnetic
- Electrical insulation effect
- Easy to load and unload
- Top screw fixing method

The main purpose

- Servo motors, stepper motors, AC motors, DC motors, various small motors
- Transmission equipment
- Precision encoders
- Environmental equipment, small water pumps
- Air conditioning equipment, optical systems

Cross slider type

Product model description

HKS-34G - 12 x16

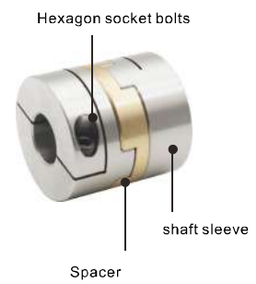
Product model specification　　Shaft bore

※ Note: Keyway can be processed

Nietz Precision Coupling

HKS-C Series Coupling Oldham Slider Type - Clamping Type

Structure



Material

Shaft sleeve	stainless steel
Spacer	Aluminum Bronze
Hexagon socket set screw	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Cross slider connection
- Allows large radial and angular deviations
- Low inertia, high torque rigidity
- Non-magnetic
- Electrical insulation effect
- Easy to load and unload
- Top screw fixing method

The main purpose

- Servo motors, stepper motors, AC motors, DC motors, various small motors
- Transmission equipment
- Precision encoders
- Environmental equipment, small water pumps
- Air conditioning equipment, optical systems

Cross slider type

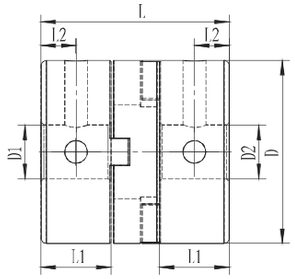
Product model description

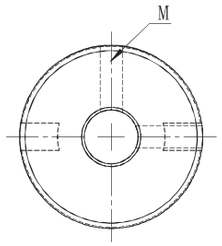
HKS-34C - 12 x16

Product model specification　　Shaft bore

※ Note: Keyway can be processed

HKS-G Cross Slider Type - Top Screw Type - Coupling





Specifications

Model	D	L	L1	L2	M	Screw tightening torque (N•M)
HKS-15G	15	17	5.6	2.8	M3	0.7
HKS-17G	17	21	7	3.5	M3	0.7
HKS-20G	20	22	7	3.5	M3	0.7
HKS-25G	25	27	9	4.5	M4	1.7
HKS-30G	30	34	12	6	M4	1.7
HKS-34G	34	35	13	6.5	M5	4
HKS-38G	38	41	15	7.5	M5	4
HKS-45G	45	45	15	7.5	M5	4
HKS-55G	55	51	17	8.5	M6	7
HKS-70G	70	59	20	10	M8	15

D1 D2 Standard aperture

Model	3	4	5	6	6.35	8	10	12	14	15	16	18	20	22	24	25	28	30	35	38	40	42
HKS-15G	●	●	●	●	●	●																
HKS-17G		●	●	●	●	●	●															
HKS-20G			●	●	●	●	●	●														
HKS-25G				●	●	●	●	●	●	●												
HKS-30G						●	●	●	●	●	●	●										
HKS-34G							●	●	●	●	●	●	●									
HKS-38G							●	●	●	●	●	●	●	●								
HKS-45G								●	●	●	●	●	●	●	●	●						
HKS-55G										●	●	●	●	●	●	●	●	●				
HKS-70G												●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation		quality (g)
							axial daviation	angular deviation	
HKS-15G	Φ8	3.3	6.6	8000	950	4.9×10^{-7}	0.3	2	16
HKS-17G	Φ10	5.5	11	7000	1450	9.2×10^{-7}	0.3	2	24
HKS-20G	Φ12	7.7	15.4	6000	1880	1.8×10^{-6}	0.4	2	34
HKS-25G	Φ15	11	22	5000	3400	6.6×10^{-6}	0.5	2	64
HKS-30G	Φ18	26	52	5000	4850	1.4×10^{-5}	0.6	2	117
HKS-34G	Φ20	35	70	4000	6350	2.4×10^{-5}	0.7	2	162
HKS-38G	Φ22	55	110	4000	7660	4.5×10^{-5}	0.8	2	231
HKS-45G	Φ25	66	132	3000	1 7500	1.0×10^{-4}	1	2	368
HKS-55G	Φ30	99	198	3000	3 1000	2.6×10^{-4}	1.2	2	639
HKS-70G	Φ42	176	352	2000	4 7500	7.3×10^{-4}	1.4	2	1095

When ordering:

HKS-34G - 12x16

Model — Aperture

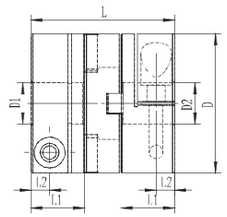
※ Keyway machining

When processing the keyway on the side shaft hole : HKS-34G-12Kx16
When processing the keyway on both sides of the shaft hole: HKS-34G-12Kx16K

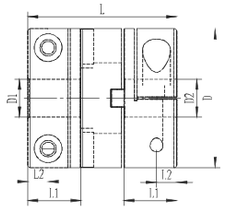
For keyway processing parameters, please refer to the keyway dimension table

HKS-C Cross Slider Type - Clamping Type - Coupling

Outer diameter
Φ15–Φ38



Outer diameter
Φ45–Φ70



Specifications

Model	D	L	L1	L2	F	M	Screw tightening torque (N•M)
HKS-15C	15	20	7.1	2.35	5.2	M2	0.5
HKS-17C	17	25	9	2.65	5.5	M2	0.5
HKS-20C	20	28	10	3.25	7.25	M2.5	1
HKS-25C	25	32	11.5	4	9	M3	1.5
HKS-30C	30	34	12	4	11	M3	1.5
HKS-34C	34	35	13	4.5	12	M4	3.5
HKS-38C	38	41	15	4.75	14	M4	3.5
HKS-45C	45	48	16.5	6.2	16	M5	8
HKS-55C	55	59	21	8	20	M6	13
HKS-70C	70	69	25	9	26	M6	13

D1 D2 Standard aperture

Model	3	4	5	6	6.35	8	10	12	14	15	16	18	20	22	24	25	28	30	35
HKS-15C	•	•	•	•															
HKS-17C		•	•	•															
HKS-20C			•	•	•	•	•												
HKS-25C				•	•	•	•	•											
HKS-30C						•	•	•	•										
HKS-34C							•	•	•	•	•								
HKS-38C							•	•	•	•	•	•	•						
HKS-45C								•	•	•	•	•	•	•					
HKS-55C										•	•	•	•	•	•	•			
HKS-70C												•	•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation		quality (g)
							axial daviation	angular deviation	
HKS-15C	Φ6	3.3	6.6	8000	950	4.9×10^{-7}	0.3	2	19
HKS-17C	Φ6.35	5.5	11	7000	1450	9.2×10^{-7}	0.3	2	35
HKS-20C	Φ10	7.7	15.4	6000	1880	1.8×10^{-6}	0.4	2	47
HKS-25C	Φ12	11	22	5000	3400	6.6×10^{-6}	0.5	2	85
HKS-30C	Φ14	26	52	5000	4850	1.4×10^{-5}	0.6	2	132
HKS-34C	Φ16	35	70	4000	6350	2.4×10^{-5}	0.7	2	180
HKS-38C	Φ20	55	110	4000	7660	4.5×10^{-5}	0.8	2	237
HKS-45C	Φ22	66	132	3000	17500	1.0×10^{-4}	1	2	402
HKS-55C	Φ25	99	198	3000	31000	2.6×10^{-4}	1.2	2	778
HKS-70C	Φ35	176	352	2000	47500	7.3×10^{-4}	1.4	2	1405

When ordering:

HKS -34C - 12x16

Model — Aperture

※ Keyway machining

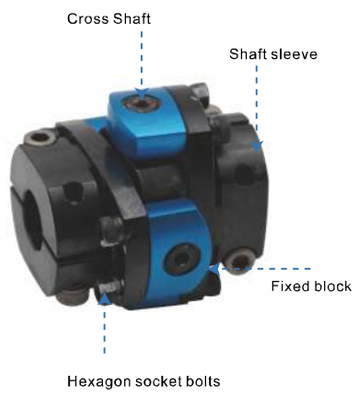
When processing keyway on one side of the shaft hole: HKS-34C-12Kx16
When processing keyway on both sides of the shaft hole:HKS-34C-12x16K

For keyway processing parameters, please refer to the keyway dimension table

Nietz Precision Coupling

SZ-C Series Coupling Cross Shaft Type - Clamping Type (Steel)

Structure



Material

Shaft sleeve	Carbon steel
	blackening
Cross Shaft	alloy steel
fixed block	High strength aluminum alloy
	anodizing treatment
Hexagon socket set screw	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Cross-axis connection
- Compensation for radial and angular deviations
- Low inertia, high torque rigidity
- Clamping screw fixing method

The main purpose

- Servo motors, stepper motors, AC motors, DC motors
- Various small motors

Product model description

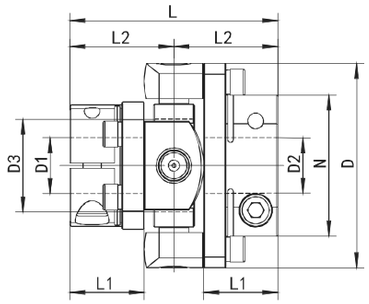
SZ-55C - 15x15

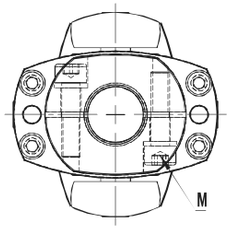
Product model specification — Shaft bore

※ Note: Keyway can be processed

Cross slider type

SZ-C Cross Shaft Type - Clamping Type - Coupling (Steel)





Specifications

Model	Shaft bore	D	L	N	L1	L2	D3	M	Screw tightening torque (N•M)
SZ-45C	8-16	45	48	31	17	24	20	M4	4.0
SZ-55C	10-20	55	56	38	20	28	25	M5	8.3
	24							M4	4.0
SZ-65C	12-22	65	68	44	24.5	34	30	M6	13.7
	24-25							M5	8.3
SZ-80C	12-30	80	80	57	29	40	39	M8	34.3
	32-35							M6	13.7
SZ-100C	20-35	100	100	70	36	50	45	M10	67.6
	38-40							M8	34.3
SZ-125C	25-50	125	120	88	42.5	60	61	M12	118
SZ-155C	35-60	155	141	112	50	70.5	76	M14	186

D1 D2 Standard aperture

Model	8	10	11	12	13	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60
SZ-45C	•	•	•	•	•	•	•	•																			
SZ-55C		•	•	•	•	•	•	•	•	•	•	•	•	•													
SZ-65C				•	•	•	•	•	•	•	•	•	•	•	•												
SZ-80C				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
SZ-100C												•	•	•	•	•	•	•	•	•	•						
SZ-125C															•	•	•	•	•	•	•	•	•	•	•		
SZ-155C																			•	•	•	•	•	•	•	•	•

Nietz Precision Coupling

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Allowable thrust load (N)	Maximum speed (min^{-1})	Static torque rigidity (N.M/rad)	Moment of inertia (KG·M2)	Allowable deviation		quality (g)
								axial daviation	angular deviation	
SZ-45C	Φ16	10	20	500	6000	1.91×10^{4}	0.40×10^{-4}	0.2	1	190
SZ-55C	Φ24	20	40	850	6000	5.01×10^{4}	1.13×10^{-4}	0.2	1	360
SZ-65C	Φ25	40	80	1450	6000	1.08×10^{5}	2.54×10^{-4}	0.2	1	570
SZ-80C	Φ35	80	160	3250	6000	2.37×10^{5}	6.89×10^{-4}	0.2	1	970
SZ-100C	Φ40	160	320	3750	6000	4.66×10^{5}	2.24×10^{-3}	0.2	1	2090
SZ-125C	Φ50	320	640	6000	6000	8.80×10^{5}	7.08×10^{-3}	0.2	1	4380
SZ-155C	Φ60	640	1280	9750	6000	1.66×10^{6}	1.98×10^{-2}	0.2	1	7670

When ordering: **SZ-55C - 15x15**

Model — Aperture

※ Keyway machining

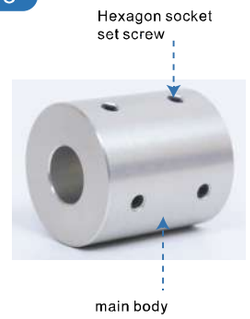
When processing the keyway on the side shaft hole : SZ-55C-15Kx15
When processing the keyway on both sides of the shaft hole: SZ-55C-15Kx15K

For keyway processing parameters, please refer to the keyway dimension table

Cross slider type

GX-G Series Coupling Rigid - Top Screw Type

Structure



Material

main body	High strength aluminum alloy
	anodizing treatment
Hexagon socket set screw	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Zero backlash
- High torque rigidity and high permissible torque
- Lightweight, extremely low moment of inertia
- Maintenance-free, oil-resistant and chemical-resistant
- Top wire fixing method

The main purpose

- Servo motors, stepper motors, small motors
- Precision machinery XY axis slides
- Machine tools

Product model description

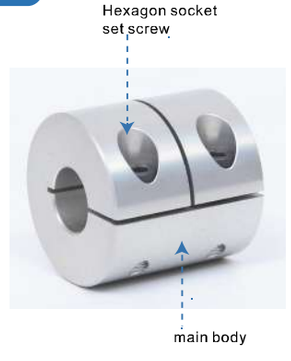
GX-40G - 16 x20

Product model specification — Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

GX-C Series Couplings Rigid-Clamping Type

Structure



Material

main body	High strength aluminum alloy
	anodizing treatment
Hexagon socket bolts	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Zero backlash
- High torque rigidity and high permissible torque
- Lightweight, extremely low moment of inertia
- Maintenance-free, oil-resistant and chemical-resistant
- Clamping screw fixing method

The main purpose

- Servo motors, stepper motors, small motors
- Precision machinery XY axis slides
- Machine tools

Product model description

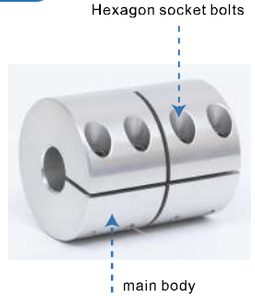
GXC-32C - 12 x14

Product model specification — Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

GXC-C Series Coupling Rigid-Clamping Type (Extended Type)

Structure



Material

main body	High strength aluminum alloy
	anodizing treatment
Hexagon socket bolts	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Zero backlash
- High torque rigidity and high permissible torque
- Lightweight, extremely low moment of inertia
- Maintenance-free, oil-resistant and chemical-resistant
- Clamping screw fixing method

The main purpose

- Servo motors, stepper motors, small motors
- Precision machinery XY axis slides
- Machine tools

Product model description

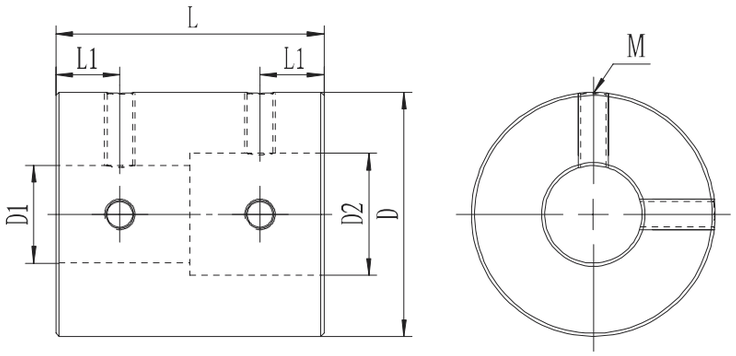
GXC-32C - 12 x14

Product model specification — Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

Nietz Precision Coupling

GX-G Rigid-top-screw-type coupling



Specifications

Model	D	L	L1	M	Screw tightening torque (N•M)
GX-16G	16	24	6	M3	0.7
GX-20G	20	30	7	M3	0.7
GX-25G	25	36	9	M4	1.7
GX-32G	32	41	10	M4	1.7
GX-40G	40	44	10.5	M5	4
GX-50G	50	53	12	M6	7
GX-65G	65	65	16	M8	15

D1 D2 Standard aperture

Model	3	4	5	6	8	10	12	15	16	18	19	20	25	28	30	32
GX-16G	•	•	•	•												
GX-20G				•	•	•										
GX-25G					•	•	•									
GX-32G							•	•	•							
GX-40G									•	•	•	•				
GX-50G											•	•	•			
GX-65G														•	•	•

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Moment of inertia (KG·M2)	quality (g)
GX-16G	Φ8	1.1	2.2	12000	4.2×10^{-7}	11
GX-20G	Φ10	2.6	5.2	10000	1.5×10^{-6}	20
GX-25G	Φ12	4.3	8.6	9000	3.7×10^{-6}	39
GX-32G	Φ16	10	20	8000	1.1×10^{-5}	71
GX-40G	Φ20	20	40	6000	3.2×10^{-5}	120
GX-50G	Φ25	25	50	5500	8.4×10^{-5}	225
GX-65G	Φ32	35	70	5000	2.9×10^{-5}	473

When ordering: **GX-40G - 16x20**

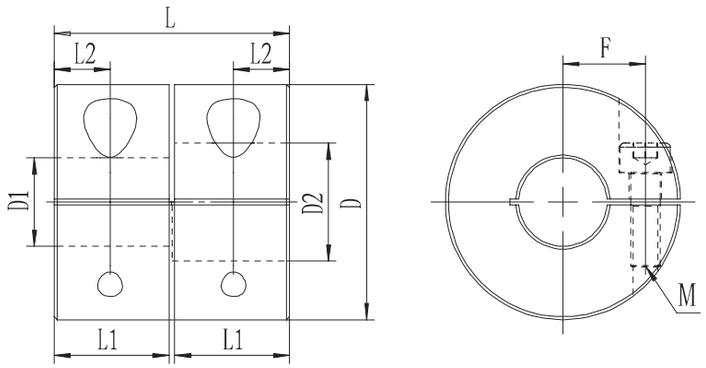
Model　　Aperture

※ Keyway machining

When processing the keyway on the side shaft hole : GX-40G-16Kx20
When processing the keyway on both sides of the shaft hole: GX-40G-16Kx20K

For keyway processing parameters, please refer to the keyway dimension table

GX-C Rigid-Clamping-Coupling



Specifications

Model	D	L	L1	L2	F	M	Screw tightening torque (N•M)
GX-16C	16	16	7.5	3.75	5	M2.5	1
GX-20C	20	20	9.5	4.75	6.5	M2.5	1
GX-25C	25	25	12	6	9	M3	1.5
GX-32C	32	32	15.5	7.75	11	M4	2.5
GX-40C	40	40	19.5	9.5	14	M5	4
GX-50C	50	50	24.4	12	18	M6	8
GX-65C	65	65	31.9	16	23	M8	16

D1 D2 Standard aperture

Model	5	6	8	10	12	14	15	16	18	19	20	24	25	28	30
GX-16C	•	•													
GX-20C		•	•												
GX-25C			•	•											
GX-32C				•	•	•									
GX-40C							•	•	•						
GX-50C										•	•	•			
GX-65C													•	•	•

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Moment of inertia (KG·M2)	quality (g)
GX-16C	Φ6	0.8	1.6	12000	2.8×10^{-7}	8
GX-20C	Φ8	2.4	4.8	11000	8.5×10^{-7}	14
GX-25C	Φ10	4.3	8.6	10000	2.9×10^{-6}	28
GX-32C	Φ14	9.5	19	8000	7.4×10^{-6}	58
GX-40C	Φ18	19	38	6000	2.6×10^{-5}	113
GX-50C	Φ24	25	50	5500	7.5×10^{-5}	211
GX-65C	Φ30	35	70	5000	2.8×10^{-4}	481

When ordering: **GX-40C - 16x18**

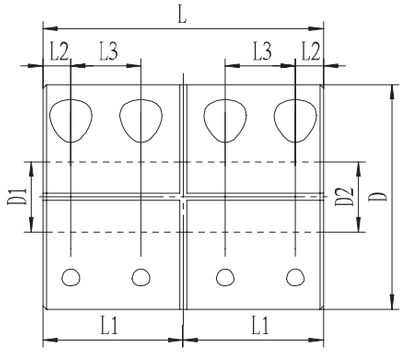
Model — Aperture

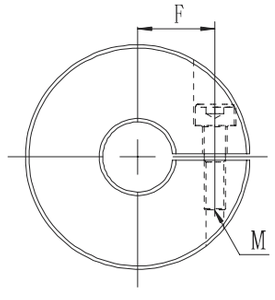
※ Keyway machining

When processing the keyway on the side shaft hole : GX-40C-16Kx18
When processing the keyway on both sides of the shaft hole: GX-40C-16Kx18K

For keyway processing parameters, please refer to the keyway dimension table

GXC-C Rigid-clamping-(extended) coupling





Specifications

Model	D	L	L1	L2	L3	F	M	Screw tightening torque (N•M)
GXC-16C	16	22	11	2.5	5.5	5	M2	0.5
GXC-20C	20	24	12	2.5	6	7	M2	0.5
GXC-25C	25	36	18	4.5	9	9	M2.5	1
GXC-32C	32	40	20	4	10	11	M3	1.5
GXC-39C	39	52	26	7.25	11	13.8	M5	7
GXC-49C	49	66	33	9.25	14	18.3	M6	12
GXC-54C	54	80	40	10	15	20	M6	12

D1 D2 Standard aperture

Model	5	6	8	10	12	14	15	16	18	19	20	22	24	25	28
GXC-16C	●	●													
GXC-20C		●	●												
GXC-25C			●	●	●										
GXC-32C				●	●	●	●								
GXC-39C					●	●	●	●	●						
GXC-49C					●	●	●	●	●	●	●	●	●		
GXC-54C							●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Moment of inertia (KG·M2)	quality (g)
GXC-16C	Φ6	0.8	1.6	12000	3.4×10^{-7}	11
GXC-20C	Φ8	2.4	4.8	11000	9.2×10^{-7}	17
GXC-25C	Φ12	4.3	8.6	10000	3.4×10^{-6}	38
GXC-32C	Φ15	9.5	19	8000	1.0×10^{-5}	70
GXC-39C	Φ18	19	38	7500	2.9×10^{-5}	143
GXC-49C	Φ24	33	66	7000	1.1×10^{-4}	271
GXC-54C	Φ28	38	76	6500	2.0×10^{-4}	381

When ordering:

GXC-32C-12x14

Model　　Aperture

※ Keyway machining

When processing the keyway on the side shaft hole : GXC-32C-12Kx14
When processing the keyway on both sides of the shaft hole: GXC-32C-12Kx14K

For keyway processing parameters, please refer to the keyway dimension table

GXB-C Series

Coupling Rigid-Clamping Type (Standard Type) (High Strength Aluminum Alloy)

Structure

Material

main body	High strength aluminum alloy
	anodizing treatment
Hexagon socket bolts	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Zero backlash
- High torque rigidity and high permissible torque
- Lightweight, extremely low moment of inertia
- Maintenance-free, oil-resistant and chemical-resistant
- Clamping screw fixing method

The main purpose

- Servo motors, stepper motors,small motors
- Precision machinery XY axis slides
- Machine tools

Product model description

GXB-44C - 16 x18

Product model specification — Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

GXBS-C Series

Couplings Rigid-clamping type (standard type) (carbon steel)

Structure

Material

main body	Carbon steel/blackening
	Stainless steel/electrolysis
Hexagon socket bolts	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Zero backlash
- High torque rigidity and high permissible torque
- Maintenance-free, oil-resistant and chemical-resistant
- Clamping screw fixing method

The main purpose

- Servo motors, stepper motors,small motors
- Precision machinery XY axis slides
- Machine tools

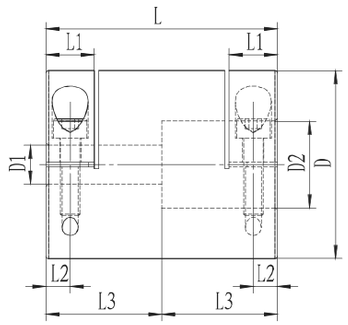
Product model description

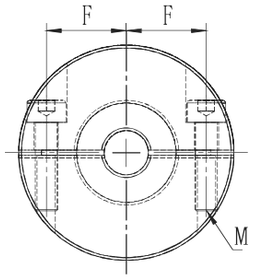
GXBS-44C - 16 x18

Product model specification — Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

GXB-C Rigid-Clamping Type (Standard Type)
(High Strength Aluminum Alloy)





Specifications

Model	D	L	L1	L2	L3	F	M	Screw tightening torque (N•M)
GXB-24C	24	30	7	3.5	15	7.75	M3	1.5
GXB-34C	34	40	8	4	20	12	M3	1.5
GXB-39C	39	48	10	5	24	14.5	M4	3.4
GXB-44C	44	48	12.5	6.25	24	16	M5	7
GXB-56C	56	60	14.5	7.25	30	20	M6	14
GXB-68C	68	73	19	9.5	36.5	24	M8	28

D1 D2 Standard aperture

Model	5	6	8	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35
GXB-24C	●	●	●	●	●														
GXB-34C			●	●	●	●	●	●	●										
GXB-39C			●	●	●	●	●	●	●	●									
GXB-44C				●	●	●	●	●	●	●	●	●	●						
GXB-56C						●	●	●	●	●	●	●	●	●	●	●	●		
GXB-68C								●	●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Moment of inertia (KG·M2)	quality (g)
GXB-24C	Φ11	2.3	4.6	26000	2×10^{-6}	30
GXB-34C	Φ16	2.8	5.6	18000	9.5×10^{-6}	79
GXB-39C	Φ18	4.7	9.4	16000	2.2×10^{-5}	126
GXB-44C	Φ22	6.5	13	13000	3.3×10^{-5}	153
GXB-56C	Φ30	15	30	10000	1.1×10^{-4}	294
GXB-68C	Φ35	40	80	10000	2.8×10^{-4}	545

When ordering: **GXB-44C-16x18**

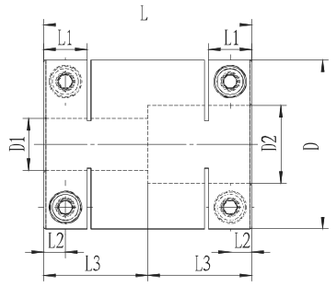
Model — Aperture

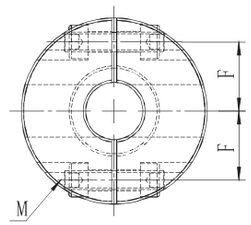
※ Keyway machining

When processing the keyway on the side shaft hole : GXB-44C-16Kx18
When processing the keyway on both sides of the shaft hole: GXB-44C-16Kx18K

For keyway processing parameters, please refer to the keyway dimension table

GXBS-C Rigid-Clamping-(Standard) Coupling (Carbon Steel)





Specifications

Model	D	L	L1	L2	L3	F	M	Screw tightening torque (N•M)
GXBS-24C	24	30	7	3.5	15	8	M3	1.5
GXBS-34C	34	40	8	4	20	12	M3	1.5
GXBS-39C	39	48	10	5	24	14.5	M4	2.5
GXBS-44C	44	48	12.5	6.25	24	16	M5	4
GXBS-56C	56	60	14.5	7.25	30	20	M6	8
GXBS-68C	68	73	19	9.5	36.5	24	M8	16

D1 D2 Standard aperture

Model	8	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35
GXBS-24C	●	●															
GXBS-34C		●	●	●	●	●											
GXBS-39C				●	●	●	●	●									
GXBS-44C				●	●	●	●	●	●	●	●						
GXBS-56C						●	●	●	●	●	●	●	●	●			
GXBS-68C							●	●	●	●	●	●	●	●	●	●	●

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Moment of inertia (KG·M2)	quality (g)
GXBS-24C	Φ10	2.3	4.6	26000	2.7×10^{-6}	82
GXBS-34C	Φ15	2.8	5.6	18000	1.4×10^{-5}	216
GXBS-39C	Φ18	4.7	9.4	16000	3.9×10^{-5}	333
GXBS-44C	Φ22	6.5	13	11000	1.7×10^{-4}	397
GXBS-56C	Φ28	15	30	8000	5.5×10^{-4}	810
GXBS-68C	Φ35	35	70	5000	1.5×10^{-3}	1414

When ordering:

GXBS-34C-12x14

Model — Aperture

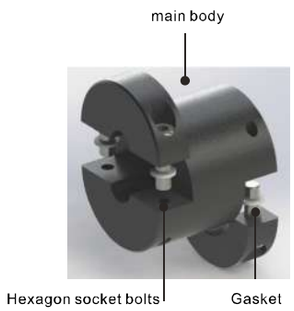
※ Keyway machining

When processing the keyway on the side shaft hole : GXBS-34C-12Kx14
When processing the keyway on both sides of the shaft hole: GXBS-34C-12Kx14K

For keyway processing parameters, please refer to the keyway dimension table

GXFS-C Series Coupling Rigid-Split Clamping Type (Carbon Steel)

Structure



Material

main body	Carbon steel/blackening
	Stainless steel/electrolysis
Hexagon socket bolts	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Zero backlash
- High torque rigidity and high permissible torque
- Maintenance-free, oil-resistant and chemical-resistant
- Clamping screw fixing method

The main purpose

- Servo motors, stepper motors,small motors
- Precision machinery XY axis slides
- Machine tools

Product model description

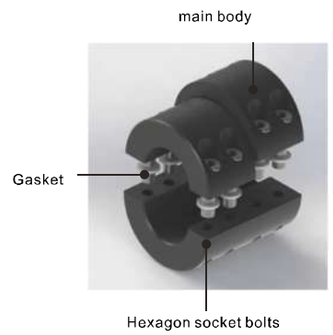
GXFS-34C - 12 x14

Product model specification — Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

GXFS-CC Series Coupling Rigid - Split Clamping Type (Carbon Steel)

Structure



Material

main body	Carbon steel/blackening
	Stainless steel/electrolysis
Gasket	PE
Hexagon socket bolts	SCM435 (12.9 class)
	Ferric oxide protective film (black)

Features

- Zero backlash
- High torque rigidity and high permissible torque
- Maintenance-free, oil-resistant and chemical-resistant
- Clamping screw fixing method

The main purpose

- Servo motors, stepper motors,small motors
- Precision machinery XY axis slides
- Machine tools

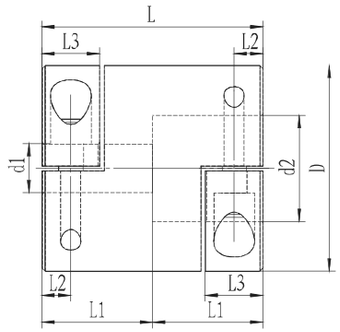
Product model description

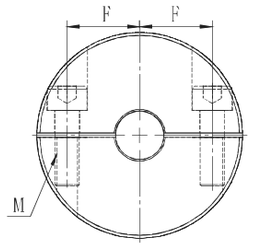
GXFS-34CC - 12 x14

Product model specification — Shaft bore

※ Note: Non-standard hole diameters and keyways can be processed additionally

GXFS-C Rigid Split Clamping Coupling (Carbon Steel)





Specifications

Model	D	L	L1	L2	L3	F	M	Screw tightening torque (N•M)
GXFS-24C	24	30	15	3.5	7	8	M3	1.5
GXFS-34C	34	40	20	4	8	12	M3	1.5
GXFS-39C	39	48	24	5	10	14.5	M4	2.5
GXFS-44C	44	48	24	6.25	12.5	16	M5	4
GXFS-56C	56	60	30	7.25	14.5	20	M6	8
GXFS-68C	68	73	36.5	9.5	19	24	M8	16

D1 D2 Standard aperture

Model	8	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35
GXFS-24C	•	•															
GXFS-34C		•	•	•	•	•											
GXFS-39C				•	•	•	•	•									
GXFS-44C				•	•	•	•	•	•	•	•						
GXFS-56C						•	•	•	•	•	•	•	•	•			
GXFS-68C							•	•	•	•	•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Moment of inertia (KG·M2)	quality (g)
GXFS-24C	Φ10	2.3	4.6	26000	2.7×10^{-6}	83
GXFS-34C	Φ15	2.8	5.6	18000	1.4×10^{-6}	218
GXFS-39C	Φ18	4.7	9.4	16000	3.9×10^{-5}	336
GXFS-44C	Φ22	6.5	13	11000	1.7×10^{-5}	402
GXFS-56C	Φ30	15	30	8000	5.5×10^{-4}	776
GXFS-68C	Φ35	35	70	5000	1.5×10^{-4}	1432

When ordering: **GXFS-34C - 12x14**

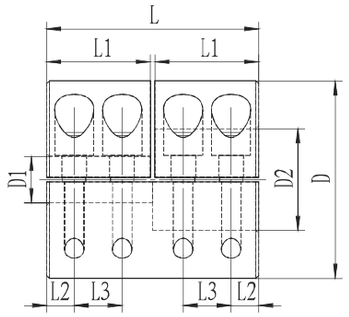
Model — Aperture

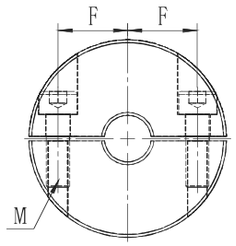
※ Keyway machining

When processing the keyway on the side shaft hole : GXFS-34C-12Kx14
When processing the keyway on both sides of the shaft hole: GXFS-34C-12Kx14K

For keyway processing parameters, please refer to the keyway dimension table

GXFS-CC Rigid-Split Clamping Coupling (Carbon Steel)





Specifications

Model	D	L	L1	L2	L3	F	M	Screw tightening torque (N•M)
GXFS-24CC	24	30	14.7	3.5	7.7	7.75	M3	1.5
GXFS-34CC	34	40	19.7	4	11	12	M3	1.5
GXFS-39CC	39	48	24	5	14	14.5	M4	2.5
GXFS-44CC	44	48	23.5	6.25	11	16	M5	4
GXFS-56CC	56	60	29.5	7.25	15	20	M6	8
GXFS-68CC	68	73	35.75	9.5	16.5	24	M8	16

D1 D2 Standard aperture

Model	8	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35
GXFS-24CC	•	•															
GXFS-34CC		•	•	•	•	•											
GXFS-39CC				•	•	•	•	•									
GXFS-44CC				•	•	•	•	•	•	•	•						
GXFS-56CC						•	•	•	•	•	•	•	•	•			
GXFS-68CC							•	•	•	•	•	•	•	•	•	•	•

Series of photos:

Performance parameter

Model	Maximum aperture (mm)	Rated torque (N.M)	Maximum torque (N.M)	Maximum speed (min^{-1})	Moment of inertia (KG·M2)	quality (g)
GXFS-24CC	Φ10	2.3	4.6	26000	2.7×10^{-6}	80
GXFS-34CC	Φ15	2.8	5.6	18000	1.4×10^{-6}	211
GXFS-39CC	Φ18	4.7	9.4	16000	3.9×10^{-5}	330
GXFS-44CC	Φ22	6.5	13	11000	1.7×10^{-5}	392
GXFS-56CC	Φ30	15	30	8000	5.5×10^{-4}	751
GXFS-68CC	Φ35	35	70	5000	1.5×10^{-4}	1395

When ordering:

GXFS-34CC-12x14

Model　　Aperture

※ Keyway machining

When processing the keyway on the side shaft hole : GXFS-34CC-12x14
When processing the keyway on both sides of the shaft hole: GXFS-34CC-12x14K

For keyway processing parameters, please refer to the keyway dimension table

□对于本样册中产品的形状、尺寸、及其它参数变更，恕不另行通知。