

## **\* ISM6045 SERIES**

Suitable for manual pulse input type such as NC or milling machinery

High reliability, terminal connection type

Power supply: 5V DC, 12V DC Customer's logo is available

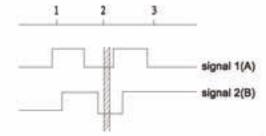
### Application:

Industrial tooling machinery



### Output waveform

90° Output phase difference, CW rotation (CW rotation as seen from fit surface)



A leads B clockwise when viewing the encoder shaft end. Click-stop position falls within hatched area.



### **TECHNICAL SPECIFICATIONS**

Output wave	Square wave
Output signals	A, B(Line driver output A, A, B, B phase)
Current consumption	≤100mA
Response Frequency	0~20KHz
Output phase difference	90° ± 45°
Supply voltage	5V DC, 12V DC
Signal level	V <sub>*</sub> ≥85%Voc, V <sub>1</sub> <0.3V
Number of pulses	100 (Other number of pulse available on request)
Output circuit	Open collector NPN, Push pull, Line driver, Voltage
MECHANICAL SPECIFIC	ATIONS
Signal position	4 kind
Speed without sealing	500rmp
Starting torque without sealing	≤1.0x 10°Nm (+25°C)
Shock resistance	980m/s², 6ms, 2 times each on XYZ
Vibration proof	50m/s <sup>1</sup> , 10~200Hz, 2 hours each on XYZ
Working life	MTBF ≥ 10000h (+25°C, 2000rpm)
Weight	Appr. 200g
ENVIRONMENTAL SPEC	CIFICATIONS
Working humidity	30~85% (No condensation)
Storage temperature	-30°C-85°C
Working temperature	-10°C~70°C
	IP54

# > Terminal assignment

Code	1	2	3	4	5	6
Line driver output	+5V	0V	SIGA	SIG A	SIG B	SIG B
Other Output circuit	+5V	0V	SIGA	SIG B		

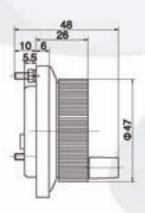
### Ordering code

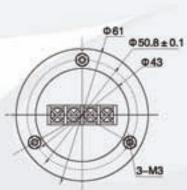
ISM6045	-	002	100	8	-	12	E
Series		Sequence Number	Number of Pulses	Output		Supply Voltage	Output

Series: ISM6045, Number of pulses: 100 p/r, Output signals: AB, Supply voltage: 12V DC, Output circuit: Voltage, Record: ISM6045-002-100B-12E

### **Dimensions**







# Process diagram by user:





## **\* ISC3806 SERIES**

Shaft diameter Φ6 mm or Φ8 mm , clamping flange, housing diameter @38 mm. Low price at high performance, small volume, light weight, easy for installing

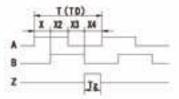
#### Applications:

Measure the distance, stop dog positioning, curtained door, textile machines



### Output waveform

90" Output phase difference, CW rotation (CW rotation as seen from fit surface)



Square-wave accuracy: X,+X,=1/2T ± 1/12T X,+X,=1/2T ± 1/12T

Pitch error of period: ±0.01T

Pitch error of phase position: ≤1/18T Z phase: Tz =1/4T (1T, 1/2T, 1/4T···)

Period of pulses: T=360° /N (N : output pulses) Signal accuracy: Xn=1/4T ± 1/12T (n=1, 2, 3, 4)

A leads B clockwise when viewing the encoder shaft end, The position of Z phase against A, B phase is not specified.



### TECHNICAL SPECIFICATIONS

Output wave	Square wave
Output signals	A, B, Z,(Line driver output A, A, B, B, Z, Z phase)
Current consumption	≤120mA
Response Frequency	0~100KHz
Output phase difference	90° ± 45°
Supply voltage	5V DC, 5-12V DC, 12-24V DC
Signal level	V <sub>n</sub> ≥85%Vcc, V <sub>s</sub> ≤0.3V
Number of pulses	10, 15, 20, 30, 40, 50, 60, 100, 120, 125, 150, 180, 200, 240, 250, 256, 300, 360, 400, 480, 500, 512, 600, 720, 740, 900, 900, 960, 1000, 1024, 1290, 1250, 1440, 1500, 1800, 2000, 2048, 2500(Other number of pulse available on request)
Output circuit	Open collector NPN, Push pull, Line driver, Voltage
MECHANICAL SPECIFIC	ATIONS
Speed without sealing	5000mp
Rotor moment of inertia	Appr. 3.5x10°Kgm²
Starting torque without sealing	≤1.5x 10°Nm (+25°C)
Maximum load permitted on shaft	Radial 20N, Axial 10N
Shock resistance	980m/s², 6ms, 2 times each on XYZ
Vibration proof	50m/s², 10-200Hz, 2 hours each on XYZ
Working life	MTBF≥25000h (+25°C, 2000rpm)
Weight	Appr. 130g (with 0.5 meter cable)
ENVIRONMENTAL SPEC	CIFICATIONS
Working humidity	30-85% (No condensation)
Storage temperature	-40°C=100°C

Working humidity	30-85% (No condensation)
Storage temperature	-40°C~100°C
Working temperature	-25°C-85°C
Protection class	IP54



### Terminal assignment

Signal	+5V	0V	SIGA	SIGA	SIG B	SIG B	SIG Z	SIG Z	Shield
Cable Color	Red	Black	Green	Brown	White	Grey	Yellow	Orange	N.C

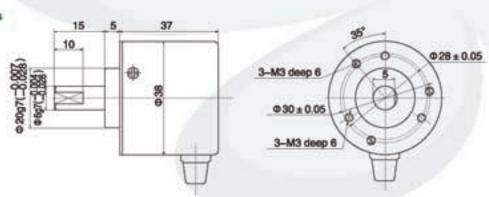
### Ordering code

	ISC3806 -	- H03	G	600	BZ3	- 5-12	С
8	Series	Sequence Number	Connection	Number of Pulses	Output Signals	Supply Voltage	Output Circuit

Series: ISC3806, Radial cable: G, Number of pulses: 600 p/r, Output signals: ABZ, Tz=1/4T, Supply voltage: 5-12V DC, Output circuit: Open collector NPN, Record: ISC3806-H03G600BZ3-5-12C



### **Dimensions**





# **※ IHC3808 SERIES**

Blind and hollow shaft encoder, axis inside diameter ⊕8mm, ⊕6& Φ6.35mm(Option), housing diameter Ф38mm.

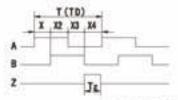
With flex bracket flange, easy for installing, small volume, light weight, stable output.

#### Applications:

Computerized embroidery punching machine, textile machines

### Output waveform

90\* Output phase difference, CW rotation (CW rotation as seen from fit surface)



Square-wave accuracy: X,+X,=1/2T ± 1/12T X,+X,=1/2T ± 1/12T

Pitch error of period: ±0.01T Pitch error of phase position: ≤1/18T

Z phase: Tz =1/4T (1T, 1/2T, 1/4T---)

Period of pulses: T=360° /N (N : output pulses) Signal accuracy: Xn=1/4T ± 1/12T (n=1, 2, 3, 4)

A leads B clockwise when viewing the encoder shaft end, The position of Z phase against A, B phase is not specified.



### **TECHNICAL SPECIFICATIONS**

Output wave	Square wave
Output signals	A, B, Z,(Line driver output A, A, B, B, Z, Z phase
Current consumption	≤120mA
Response Frequency	0~100KHz
Output phase difference	90° ± 45°
Supply voltage	5V DC, 5-12V DC, 12-24V DC
Signal level	V <sub>n</sub> ≥85%Vcc, V <sub>s</sub> <0.3V
Number of pulses	100, 120, 125, 150, 180, 200, 240, 250, 300, 380, 400, 500, 600, 720, 800, 900, 980, 1000, 1024, 1200, 1250, 1440, 1500, 1800, 2000, 2048, 2500(Other number of pulse available on request)
Output circuit	Open collector NPN, Push pull, Line driver, Voltage
MECHANICAL SPECIFIC	ATIONS
Speed without sealing	4500mp
Rotor moment of inertia	Appr. 3.5x10*Kgm²
Starting torque without sealing	≤5.0x 10*Nm (+25°C)
Maximum load permitted on shaft	Radial 20N, Axial 10N
Shock resistance	980m/s², 6ms, 2 times each on XYZ
Critical remember	50m/s <sup>2</sup> , 10~200Hz, 2 hours each on XYZ
Vibration proof	DUTIVE, 10~200HZ, 2 HOURS BEEN ON ATZ
	MTBF≥25000h (+25°C, 2000rpm)
Vibration proof	
Vibration proof Working life	MTBF≥25000h (+25°C, 2000rpm) Appr. 140g (with 1 meter cable)
Vibration proof Working life Weight	MTBF≥25000h (+25°C, 2000rpm) Appr. 140g (with 1 meter cable)
Vibration proof Working life Weight ENVIRONMENTAL SPEC	MTBF≥25000h (+25°C, 2000rpm) Appr. 140g (with 1 meter cable) DIFICATIONS
Vibration proof Working life Weight ENVIRONMENTAL SPEC Working humidity	MTBF≥25000h (+25°C, 2000rpm) Appr. 140g (with 1 meter cable)  CIFICATIONS  30-85% (No condensation)

# > Terminal assignment

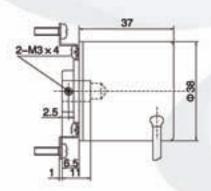
+5V	OV	SIGA	SIGA	SIG B	SIG B	SIG Z	SIG Z	Shield
Red	Black	Green	Brown	White	Grey	Yellow	Orange	N.C
,	- Internation	The second secon	The second secon		100000000000000000000000000000000000000			

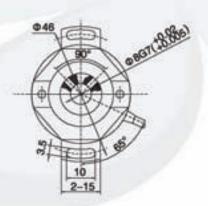
# Ordering code

IHC3808	- 401	G	600	BZ1	-	12-24	C
Series	Sequence	Connection	Number	Output		Supply	Output
	Number		of Pulses	Signals		Voltage	Circuit

Series: IHC3808, Radial cable: G, Number of pulses: 600 p/r, Output signals: ABZ, Tz=1T, Supply voltage: 12-24V DC, Output circuit: Open collector NPN, Record: IHC3808-401G800BZ1-12-24C

### Dimensions







# **※ IHA6012 SERIES**

Hollow shaft encoder, axis inside diameter Ф12 mm, (Ф6 mm, Ф6.35 mm, Ф8 mm, Ф10 mm on order), housing diameter Φ60 mm.

With flex bracket flange, easy for installing, light weight, stable output.

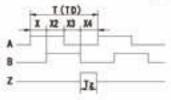
#### Applications:

Computer numerical control tooling machines



### Output waveform

90° Output phase difference, CW rotation (CW rotation as seen from fit surface)



Square-wave accuracy: X,+X<sub>2</sub>=1/2T ± 1/12T X,+X,=1/2T ± 1/12T

Pitch error of period: ±0.01T Pitch error of phase position: ≤1/18T

Z phase: Tz =1/4T (1T, 1/2T, 1/4T---)

Period of pulses: T=360° /N (N : output pulses) Signal accuracy: Xn=1/4T ± 1/12T (n=1, 2, 3, 4)

A leads B clockwise when viewing the encoder shaft end, The position of Z phase against A, B phase is not specified.



### **TECHNICAL SPECIFICATIONS**

Output wave	Square wave
Output signals	A, B, Z,(Line driver output A, A, B, B, Z, Z phase)
Current consumption	≤150mA
Response Frequency	0~100KHz
Output phase difference	90° ± 45°
Supply voltage	5V DC, 5-12V DC, 12-24V DC
Signal level	V <sub>n</sub> ≥85%Vcc, V <sub>s</sub> ≤0.3V
Number of pulses	120, 200, 250, 300, 360, 400, 500, 600, 740, 800, 900, 1000, 1024, 1200, 1500, 1800, 2000, 2048, 2500, 3000, 3600(Other number of pulse available on request)
Output circuit	Open collector NPN, Push pull, Line driver, Voltage
MECHANICAL SPECIFIC	ATIONS
Speed without sealing	6000mp
Rotor moment of inertia	Appr. 4.0x10°Kgm²
Starting torque without sealing	≤2.5x 10°Nm (+25°C)
Maximum load permitted on shaft	Radial 20N, Axial 10N
Shock resistance	980m/s², 6ms, 2 times each on XYZ
Vibration proof	50m/s <sup>2</sup> , 10~200Hz, 2 hours each on XYZ
Working life	MTBF ≥ 10000h (+25°C, 2000rpm)
Weight	Appr. 250g (with 1 meter cable)
ENVIRONMENTAL SPEC	CIFICATIONS
	30-85% (No condensation)
Working humidity	an note fith communications
Working humidity Storage temperature	-30°C-85°C

# Terminal assignment

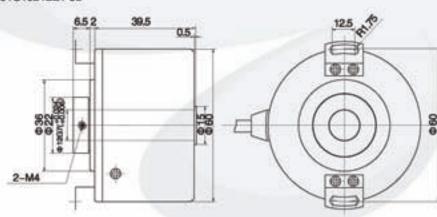
Signal	+5V	0V	SIGA	SIGA	SIG B	SIG B	SIG Z	SIG Z	Shield
Cable Color	Red	Black	Green	Brown	White	Grey	Yellow	Orange	N.C

# Ordering code

IHA6012	- 401	G	1024	BZ1	-	5	L
Series	Sequence	Connection	Number	Output		Supply	Output
	Number		of Pulses	Signals		Voltage	Circuit

Series: IHA6012, Radial cable: G, Number of pulses: 1024 p/r, Output signals: ABZ, Tz=1T, Supply voltage: 5V DC, Output circuit: Line driver, Record: IHA6012-401G1024BZ1-5L







# ※ ISM8060 SERIES

Suitable for manual pulse input type such as NC or milling machinery

High reliability, terminal connection type Power supply: 5V DC, 12V DC, 24V DC

Customer's logo is available

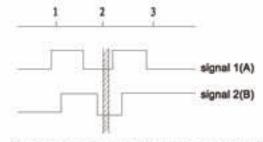
### Application:

Industrial tooling machinery



### Output waveform

90° Output phase difference, CW rotation (CW rotation as seen from fit surface)



A leads B clockwise when viewing the encoder shaft end. Click-stop position falls within hatched area.



### **TECHNICAL SPECIFICATIONS**

Output wave	Square wave
Output signals	A, B(Line driver output A, A, B, B phase)
Current consumption	≤100mA
Response Frequency	0-20KHz
Output phase difference	90° ± 45°
Supply voltage	5V DC, 12V DC
Signal level	V <sub>n</sub> ≥85%Vcc, V <sub>i</sub> <0.3V
Number of pulses	100 (Other number of pulse available on request
Output circuit	Open collector NPN, Push pull, Line driver, Voltage
MECHANICAL SPECIFIC	ATIONS
Signal position	4 kind
Speed without sealing	500rmp
Starting torque without sealing	≤1.0x 10°Nm (+25°C)
Shock resistance	980m/s², 6ms, 2 times each on XYZ
Vibration proof	50m/s <sup>2</sup> , 10-200Hz, 2 hours each on XYZ
Working life	MTBF ≥ 10000h (+25°C, 2000rpm)
Weight	Appr. 275g
ENVIRONMENTAL SPEC	CIFICATIONS
Working humidity	30~85% (No condensation)
	-30°C-85°C
Storage temperature	
Storage temperature Working temperature	-10℃-70℃

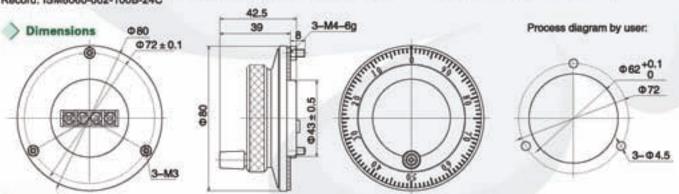
# Terminal assignment

Code	. 1	2	3	4	5	6
Line driver output	+5V	OV	SIG A	SIGA	SIG B	SIG B
Other Output circuit	+5V	OV	SIGA	SIG B	*	

# Ordering code

ISM8060 -	002	100	В -	- 24	C
Series	Sequence Number	Number of Pulses	Output Signals	Supply Voltage	Output

Series: ISM8080, Number of pulses: 100 p/r, Output signals: AB, Supply voltage: 24V DC, Output circuit: Open collector NPN, Record: ISM8060-002-100B-24C





# ISMM2080, ISMM1468 SERIES

Suitable for manual pulse input type such as NC or milling machinery High reliability, terminal connection type Power supply: 5V DC, 12V DC Customer's logo is available

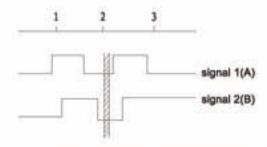
Application:

Industrial tooling machinery



#### Output waveform

90° Output phase difference, CW rotation (CW rotation as seen from fit surface)



A leads B clockwise when viewing the encoder shaft end. Click-stop position falls within hatched area.

### > Terminal assignment

Switch load	0.4VA	Max.	voltage	25V
Circuit width	0.1-50mA			
ELECTRICAL SPI	ENFICATIONS	OF CO	NTROL S	WITCH
Connection	AC Max.	load	AC220	V 0.5A
Point	DC Max.	load	DC24	V 1A
ELECTRICAL SPI	ENFICATIONS	OF STO	P SWITC	н
Connection	AC Max.		AC220	
Point	DC Max.	load	DC30	V 1A



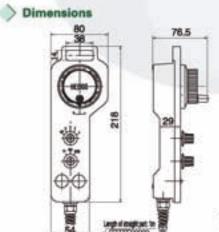
### **TECHNICAL SPECIFICATIONS**

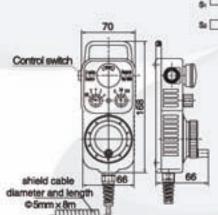
Output wave	Square wave
Output signals	A, B(Line driver output A, A, B, B phase)
Current consumption	≤100mA
Response Frequency	0~20KHz
Output phase difference	90° ± 45°
Supply voltage	5V DC, 12V DC
Signal level	V <sub>*</sub> ≥85%Vcc, V <sub>1</sub> <0.3V
Number of pulses	100 (Other number of pulse available on request
Output circuit	Open collector NPN, Push pull, Line driver, Voltage
MECHANICAL SPECIFIC Signal position	ATIONS 2 kind
Speed without sealing	500rmp
Starting torque without sealing	2.0x 10 <sup>4</sup> ~ 6.0x 10 <sup>4</sup> Nm (+25°C)
Shock resistance	980m/s², 6ms, 2 times each on XYZ
Vibration proof	50m/s <sup>1</sup> , 10-200Hz, 2 hours each on XYZ
Working life	MTBF > 10000h (+25°C, 2000rpm)
Weight	Appr. 740g
ENVIRONMENTAL SPEC	30.000
Working humidity	30-85% (No condensation)
Storage temperature	-30°C-85°C
Working temperature	-10°C-70°C
Protection class	IP54

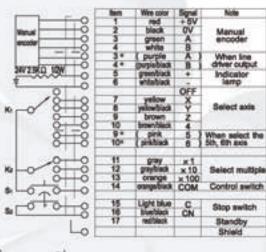
# Ordering code

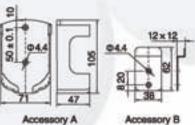
ISMM	1468 -		001		100	41 1	В			5	3.	L
Ser	ies	0.000	quence	0.0	mber Pulses	1200	tput gnale			upply	100,000	tput
Series:	ISMM1	468,	Number	of	pulses:	100	p/r,	Outp	ut	signals:	AB,	Supply

voltage: 5V DC, Output circuit: Line driver, Record: ISMM1468-001-100B-5L







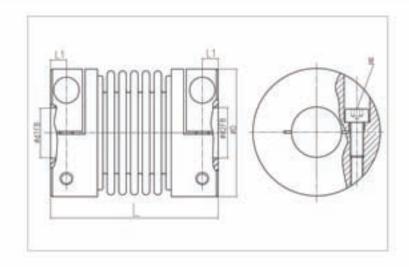


Accessory A and B

# BB系列 BB series

# 弹性联轴器 flexible coupling





### BB系列弹性联轴器(经济型)说明

Instructions of BB series flexible coupling (inexpensive type)

此款BB联轴器利用沉头螺栓拧紧的力量来使狭缝收缩,而将轴心紧紧夹持住。 固定和拆卸方便,而且不会造成轴心的损坏。

BB series coupling use setscrews to hold the axis. It is convenient to assemble and disassemble, and no damage will be caused to the shaft.

经济型BB弹性联轴器适合于中小扭矩、中小空间场合使用。您可以根据您的需要来选择所需产品。 (特殊孔径和键槽均可按需求加工)

BB series flexible coupling can be used for little torque &space. Specification on request.
(Special bore size and slot available on request)

BB系列说明 Instructions

BB系列最大的特点是利用胀套联接。零回转间隙、拆装方便。此外,其抱紧方式稳定、牢固。

BB series join with locking assembly, zero backlash, convenient to assemble and disassemble.

BB系列轴套材料为: 硬质铝合金

Body material: Hard Aluminum alloy

中间体材料为:全不锈钢波纹管

Sleeve material: Stainless steel bellows

項目类型 Item type	d1 Bore	d2 Bore	D	L	L1	м	額定扭矩 Rated Torque (N.m)	最大扭矩 Max. Torque	偏心误差 eccentricity error	轴角偏角 Shaft angel	最高转速 Max. Rotational (rpm)	运转 Rated
	5-12	5-12	23	32	3	M3	2N.m	4N.m	±0.5mm	≤2"	8800	同步运转
BB	5-18	5-18	38	50	5	M4	6N.m	12N.m	±0.5mm	≤2"	7200	In-phase
		可根据客户要求加工定制					Cani	be produced	on client's rec	nuest		operate

(定货范例 ordering example) 88-15×15-D38L50

(用户端孔径 bore size on user's end) d1 \_\_\_\_\_\_\_(联轴器总长 total length of the coupling) L

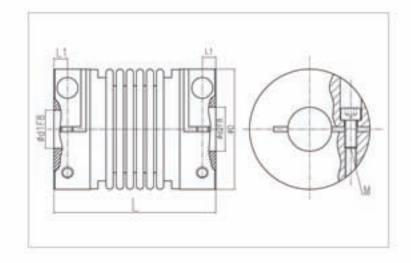
(用户端孔径 bore size on user's end ) d2 (联输器最大外径 Max. housing diameter of coupling) D

### BB适用 For BB series

文变项 (Alternative item)	代号 Code name	指定 Appointment	元/批 RMB/batch
	d1.	客户需要的孔径	另行报价
	d2	bore size on client's request	special quote

# BB1系列 弹性联轴器 BB1series flexible coupling





### BB1系列弹性联轴器特点

### Features of BB1 series flexible coupling

1、波纹管型弹性联轴器,适合大扭矩场合应用

Bellow type flexible coupling for big torque

2、高扭矩刚性、低惯性和卓越的灵敏度

High torque capacity, low inertia and excellent response

3、零回转间隙

Zero backlash

4、弹性波纹管结构补偿径向、角向和轴向偏差

Spring action bellows configuration absorbs parallel, angular misalignments and shaft end-play

5、偏差存在的情况下也可保持等速度运作

Smooth operate when misalignments occur

6、順时針和逆时針回转特性完全相同

Identical clockwise and anticlockwise rotation characteristics

7、两端不同孔径大小的产品型号也备有库存(特殊孔径和键槽均可按需求加工)

Stock for different bore size on 2 sides available (Special bore size and slot available on request)

BB1系列轴套材料为: 硬质铝合金

Body Material: Aluminum Alloy

中间体材料为: 全不锈钢波纹管

Sleeve material: Stainless steel bellows

d1 Bore	d2 Bore	D	L	L1	М	额定扭矩 Rated Torque (N.m)	最大扭矩 Max. Torque	The second secon	-	最高转速 Max. Rotational (rpm)	道转 Rated
14-22	14-22	50	70	6.8	M6	3 5 N.m	70N.m	±0.25mm	≤2.5°	4800	
15-26	15-26	60	71	6.8	M6	5 5 N.m	110N.m	±0.25mm	≤2.5°	3500	
15-26	15-26	60	81	6,8	M6	5 5 N.m	110N.m	±0.25mm	≤2.5°	3500	同步运转 In-phase operate
15-26	15-28	60	91	6.8	M6	5 5 N.m	110N.m	±0.25mm	≤2.5°	3500	operate
	Bore 14-22 15-26 15-26	Bore Bore 14-22 14-22 15-26 15-26 15-26 15-26	Bore Bore D  14-22 14-22 50 15-26 15-26 60 15-26 15-26 60	Bore Bore D L  14-22 14-22 50 70  15-26 15-26 60 71  15-26 15-26 60 81	Bore Bore D L L1  14-22 14-22 50 70 6.8  15-26 15-26 60 71 6.8  15-26 15-26 60 81 6.8	Bore Bore D L L1 M  14-22 14-22 50 70 6.8 M6  15-26 15-26 60 71 6.8 M6  15-26 15-26 60 81 6.8 M6	d1 Bore         d2 Bore         D         L         L1         M         Rated Torque (N.m)           14-22         14-22         50         70         6.8         M6         35N.m           15-26         15-26         60         71         6.8         M6         55N.m           15-26         15-26         60         81         6.8         M6         55N.m	d1         d2         D         L         L1         M         Rated Torque (N.m)         Max. Torque (N.m)           14-22         14-22         50         70         6.8         M6         35N.m         70N.m           15-26         15-26         60         71         6.8         M6         55N.m         110N.m           15-26         15-26         60         81         6.8         M6         55N.m         110N.m	d1 Bore         d2 Bore         D         L         L1         M         Rated Torque (N.m)         Max. Torque error         eccentricity error           14-22         14-22         50         70         6.8         M6         35N.m         70N.m         ±0.25mm           15-26         15-26         60         71         6.8         M6         55N.m         110N.m         ±0.25mm           15-26         15-26         60         81         6.8         M6         55N.m         110N.m         ±0.25mm	d1 Bore         d2 Bore         D         L         L1         M         Rated Torque (N.m.)         Max. Torque error         Shaft angel           14-22         14-22         50         70         6.8         M6         35N.m         70N.m         ±0.25mm         ≤2.5°           15-26         15-26         60         71         6.8         M6         55N.m         110N.m         ±0.25mm         ≤2.5°           15-26         15-26         60         81         6.8         M6         55N.m         110N.m         ±0.25mm         ≤2.5°	d1 Bore         d2 Bore         D         L         L1         M         Rated Torque (N.m.)         Max. Torque error         Shaft angel (rpm)         Max. Rotational (rpm)           14-22         14-22         50         70         6.8         M6         35N.m         70N.m         ±0.25mm         ≤2.5°         4800           15-26         15-26         60         71         6.8         M6         55N.m         110N.m         ±0.25mm         ≤2.5°         3500           15-26         15-26         60         81         6.8         M6         55N.m         110N.m         ±0.25mm         ≤2.5°         3500

(定货范例 ordering example) BB1-15×15-050L70

(用户端孔径 bore size on user's end) d1 ---

- (联轴器总长 total length of the coupling) L

(用户端孔径 bore size on user's end ) d2 (联轴器最大外径 Max. housing diameter of coupling) D

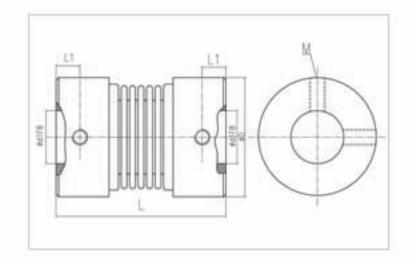
BB1适用 For BB1 series

改变项 (Alternative item) 代号 Code name 指定 On request 元/批 RMB/batch

d1. 客户需要的孔径 另行报价 special quote

# DB系列 弹性联轴器 DBseries flexible coupling





### DB系列弹性联轴器说明

Instructions of DB series flexible coupling

此款DB联轴器采用紧固螺栓的方式来使轴心固定,这是一种最传统、成本最低的固定方式。但是,螺栓的前端与轴心直接接触,可能会造成轴心的损伤或拆卸困难。

DB series flexible coupling use setscrews to hold the axis, this is a low-cost type features the most conventional attach ment. However, the point of setscrew may cause damage to the shaft and may be difficult to remove.

 DB弹性联轴器适合于小扭矩、小空间场合使用。您可以根据您的需要来选择所需产品。 (特殊孔径和键槽均可按需求加工)

DB series flexible coupling can be used for little torque &space. Specification on request.
(Special bore size and slot available on request)

DB系列轴套材料为: 硬质铝合金 中间体材料为: 全不锈钢波纹管 Body Material: Aluminum Alloy

Sleeve material: Stainless steel bellows

### 安裝注意事项

Notes to assemble

1. 安装时确保动力电源已断开

Make sure the power is off when assemble

- 2. 安装前或安装过程中应避免钢制波纹管受损坏
- Avoid any damage to stainless bellow before and in assemble
- 3. 安装过程中要保证波纹管与夹紧环和两端轴充分接触
- Plenty contact between bellows and clamp when assemble.

4. 两端轴对中误差不能超过允许发偏移量

Parallel misalignment can not be bigger than offset value

項目类型 item type	d1 Bore	d2 Bore	D	L	L1	М	額定扭矩 Rated Torque (N.m)	最大扭矩 Max. Torque	備心误差 eccentricity error	轴角偏角 Shaft angel	最高转速 Max. Rotational (rpm)	运转 Rated
	4-10	4-10	20	27	3.5	M4	2N.m	4N.m	±0.25mm	≤2'	20000	
DB	4-12	4-12	20	30	3.5	M4	2N.m	4N.m	±0.25mm	≤2'	20000	同步运转 In-phase operate
0.0	5-14	5-14	23	32	4, 5	M4	2N.m	4N.m	±0.25mm	≤2'	18000	
	5-22	5-22	38	50	5	M5	6N.m	12N.m	±0.25mm	≤2°	10000	
			可根据	客户要	求加工定	84	Can	be produce	d on client's re	equest		

(定货范例 ordering example) DB-15×15-D38L60

(用户编孔径 bore size on user's end) d1

-(联轴器总长 total length of the coupling) L

(联轴器最大外径 Max. housing diameter of coupling) D

(用户端孔径 bore size on user's end) d2

#### DB适用 For DB series

改变項 (Alternative item)	代号 Code name	指定 On request	元/批 RMB/batch
	d1.	客户需要的孔径	另行报价
	d2	bore size on client's request	special quote