Couplings Bore/Keyway Additional Modification Service

Bore Additional Modification BT

- Coupling bores can be additionally modified. Bore diameters can be specified in 0.001 mm increments.
- For bore diameters D₁ and D₂, specify the standard bore diameter for each product from minimum diameter to maximum diameter.*1
 - *1: For standard and maximum bore diameters, see each

For disk type, the bore diameters listed in the "Disk Type Bore Diameters Available" below can be specified with

For bore diameters outside the range, please contact our customer service.

- Combination with the keyway additional modification **KT KA** is also possible.*2
 - *2: The bore diameters listed in the "Keyway Additional Modification Applicable Bore Diameter List" are available for the service.
- Additional modification is also available for inch size bores. For inch size bore diameters, refer to the table below and specify in millimeter increments.

inch	mm	inch	mm
1/8	3.175	13/16	20.638
3/16	4.763	7/8	22.225
1/4	6.35	15/16	23.813
5/16	7.938	1	25.4
3/8	9.525	1 - 1/8	28.575
7/16	11.113	1 - 1/4	31.75
1/2	12.7	1 - 3/8	34.925
9/16	14.288	1 - 1/2	38.1
5/8	15.875	1 - 5/8	41.275
11/16	17.463	1 - 3/4	44.45
3/4	19.05	2	50.8

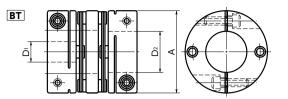
• When converting values into millimeters, round up the 4th digit after the decimal point.

Please note.

• For disk type, select bore diameters from the available options in the table below.

	Unit: mm										
Disk Type Bore Diameters Available D1/D2											
	3	4	4.5	5	6	6.35	7	8	9		
	9.525	10	11	12	13	14	15	16	17		
	18	19	20	22	24	25	28	30	32		
	35	38	40	42	45	50					

- For bore diameters D₁ and D₂, specify the standard bore diameter for each product from minimum diameter to maximum diameter.
- Disk type specifiable bore diameters are regularly added. Please visit the NBK website for the latest information.



Eligible Coupling Types

- Coupling category products are targeted.
- Eligible Coupling Types are displayed with Addittional Keyway at Shaft Hole at the bottom of the product page.



Туре	Part Number							
High-Gain Rubber	XGT2	XGL2	XGS2	XGT	XGL	XGS		
Vibration- Absorption Capable*1	XGHW							
	XHW	XHW-AC*3	XHS	XBW	XBS	MDW		
Disk*2	MDS	MHW	MHS					
DISK 2	XBWS							
	XBSS							
	MSX	MST	MWS	MSH				
Slit	MSTS							
	MWSS							
Jaw	MJC	MJS						
Cross Joint	XUT							
	MOC	MOR	MOL	MOS	MOP			
Oldham	MOM							
	MOHS							
Bellows	MFB							
	MFBS							
Serration	MSF							
Digid*4	MRG	MLR						
Rigid*4	MRGS	MLRS						

- For product series not listed above, please contact us.
- *1: Bore additional modification is only performed on the D1 side for The vibration-absorption capable disk type $\fbox{\textbf{XGHW}}$
- *2: For disk type, select bore diameters from the available options in the "Disk Type Bore Diameters Available" table. XHW-10 are not available.
- *3: Bore additional modification is only performed on the D2 side for **XHW-AC**.
- *4 $\overline{\text{MRG-W}}$, $\overline{\text{MRGS-W}}$, $\overline{\text{MLR-V}}$, and $\overline{\text{MLRS-V}}$ are not

Keyway additional modification

Lead Time and Pricing

• For details on lead time, pricing, and compatibility with other services, please contact our customer service team.

Part Number Specification

•
Additional Modification of Single-Side Bore
XHW-25C-7-BT - 8
Coupling Part D ₁ Modification D ₂ Number
Additional Modification of Double-Side Bores
XGT2-25C-7-BT - 9.525 - BT
Coupling Part D1 Modification D2 Modification (Metric bore converted from inch) Modification (Metric bore converted from in
Additional Modification of Double-Side Bores + Keyways
MOL-50C-17-BT-KT-19-BT-KT
Coupling Part D ₁ Modification D ₂ Modification Symbol
Combination of Bore Additional Modification Service and Inch Keyway Modifi
MOL-50C-11/16-BT-KA-3/4-BT-I
Coupling Part D1 Modification D2 Modific

Combination with the keyway additional modification **KT KA** is also possible.*1 *1: The bore diameters listed in the "Keyway Additional Modification Applicable Bore Diameter List" are available

Specify the modification symbol **BT** after the bore diameter to

be modified.

for the service.

Couplings Bore/Keyway Additional Modification Service

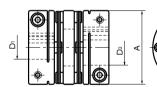


Bore additional modification

Keyway Additional Modification KT KA

- Couplings can be additionally modified with new JIS keyways based on JIS B 1301.
- Metric or inch keyways can be selected with the modification symbol.
- **KT** Metric Keyway Modification (JIS Standard) **KA** Inch Keyway Modification (AGMA Standard)
- The bore diameters listed in the "Keyway Additional Modification Applicable Bore List" in the table below are available for the service.
- Keyways are modified in positions determined by our standard specifications.
- Keyway modification is available for both singlesided and double-sided options.
- ⚠ Keyway modification is available for high-gain rubber type and rigid type only when both bore diameters are the same and keyways are added to both sides.
- Combination with the bore additional modification **BT** is also possible.

KT Metric Keyway Modification







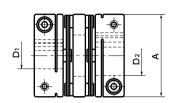


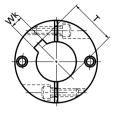


Diameter List									
Applicable Bore Diameter D1/D2			Keyway b t				Key b×h		
			Reference Dimensions	Tolerance JS9	Reference Dimensions	Tolerance	Nominal Dimension		
6	7				2	±0.0125	1.0	+0.1 0	2×2
8	9	10			3	±0.0125	1.4	+0.1	3×3
11	12				4	±0.0150	1.8	+0.1	4×4
13	14	15	16	17	5	±0.0150	2.3	+0.1	5×5
18	19	20	22		6	±0.0150	2.8	+0.1 0	6×6
24	25	28	30		8	±0.0180	3.3	+0.2	8×7
32	35	36	38		10	±0.0180	3.3	+0.2	10×8
40	42	44			12	±0.0215	3.3	+0.2	12×8
45 48 50		14	±0.0215	3.8	+0.2	14×9			
55					16	±0.0215	4.3	+0.2	16×10

- Excerpt from JIS B 1301
- The service does not cover keyway additional modification for combinations with bore diameters not listed in the table. Please contact our customer service for details.

KA Inch Keyway Modification





Unit:inch

				OTHE - ITICI				
	Keyway							
Standard Inch Bore Diameter D1,D2	Wk		Т					
	Standard Dimension	Tolerance	Standard Dimension	Tolerance				
1/2	1/8	+0.002	0.560	+0.01 0				
⁹ / ₁₆	1/8	+0.002	0.623	+0.01				
⁵ / ₈	³ / ₁₆	+0.002	0.709	+0.01 0				
11/16	3/16	+0.002	0.773	+0.01				
3/4	³ / ₁₆	+0.002	0.837	+0.01				
13/16	3/16	+0.002	0.900	+0.01				
7/8	³ / ₁₆	+0.002	0.964	+0.01 0				
15/16	1/4	+0.002	1.051	+0.01 0				
1	1/4	+0.002	1.114	+0.01				
1 1/8	1/4	+0.002	1.241	+0.01				
1 1/4	1/4	+0.002	1.367	+0.01 0				
1 3/8	5/16	+0.002	1.518	+0.01				
1 1/2	3/8	+0.002	1.669	+0.01 0				
1 5/8	3/8	+0.002	1.796	+0.01				
1 3/4	3/8	+0.002	1.922	+0.01 0				

- Excerpt from AGMA Standards
- The service does not cover keyway additional modification for bore diameters not listed in the table. Please contact our customer service.

Eligible Coupling Types

- Coupling category products are targeted.
- Eligible Coupling Types are displayed with Addittional Keyway at Shaft Hole at the bottom of the product page.



Part Nu	Part Number						
XGT2	XGL2	XGS2	XGT	XGL	XGS		
XGHW							
XHW	XHW-AC*2	XHS	XBW	XBS	MDW		
MDS	MHW	MHS					
XBWS	XBSS						
MJC	MJS						
XUT							
мос	MOR	MOL	MOS	MOP			
MOM							
MOHS							
MFB							
MFBS							
MSF							
MRG	MLR	MRGS	MLRS				
	XGT2 XGHW XHW MDS XBWS MJC XUT MOC MOM MOHS MFB MFBS MSF	XGHW XHW XHW-AC*2 MDS MHW XBWS XBSS MJC MJS XUT MOC MOR MOM MOHS MFB MFBS MSF	XGT2 XGL2 XGS2 XGHW XHW XHW-AC*2 XHS MDS MHW MHS XBWS XBSS MJC MJS XUT MOC MOR MOL MOM MOHS MFB MFBS MSF	XGT2 XGL2 XGS2 XGT XGHW XHW XHW-AC*2 XHS XBW MDS MHW MHS XBWS XBSS MJC MJS XUT MOC MOR MOL MOS MOM MOHS MFB MFBS MSF	XGT2 XGL2 XGS2 XGT XGL XGHW XHW XHW-AC*2 XHS XBW XBS MDS MHW MHS XBWS XBSS MJC MJS XUT MOC MOR MOL MOS MOP MOM MOHS MFB MFBS MSF		

- For product series not listed above, please contact us.
- We also offer keyway additional modification not listed in the catalog. Please contact our customer service.
- *1: Keyway additional modification is only performed on the D1 side for The vibration-absorption capable disk type **XGHW**
- *2: Keyway additional modification is only performed on the D2 side for **XHW-AC**.
- *3: Keyway modification is not applicable for MRG-W MRGS-W MLR-V MLRS-V in the Rigid type.

Lead Time and Pricing

• For details on lead time, pricing, and compatibility with other services, please contact our customer service team.

Part Number Specification

Additional Modification of Single-Side Keyway

XHW-25C-10-KT-12 Coupling Part

Additional Modification of Double-Side Keyways

XHW-25C-10-KT-12-KT Coupling Part

Additional Modification of Double-Side Bores + Keyways

MOL-50C-17-BT-KT-19-BT-KT Modification D2

Combination of Bore Additional Modification Service and Inch Keyway Modification MOL-50C-11/16-BT-KA-3/4-BT-KA

Coupling Part Modification Symbol

Specify the modification symbol **KT KA** after the bore diameter with the keyway to be modified.

Combination with the bore additional modification **BT** is also possible.