Selection List for Rotary Shafts

Rotary Shaft Alterations - Overview

Selection List for Rotary Shaft Shapes							
Shape							
	Straight	P.823					
	Straight with Keyway	P.825					
	Retaining Ring Grooves on Both Ends	P.827					
	Retaining Ring Grooves on Both Ends with Keyway	P.829					
	One End Tapped	P.831					
Straight	One End Tapped with Keyway	P.833					
	Both Ends Tapped	P.835					
	Both Ends Tapped with Keyways	P.837					
	Straight, Hollow	P.862					
	D-Cut	P.863					
	Pull, Retaining Ring Groove	P.864					
	Shafts for Tension	P.865					

Shape					
	One End Stepped	P.839			
	One End Stepped, One End Tapped	P.841			
	One End Stepped, One End Threaded	P.843			
One End Stepped	One End Stepped and Threaded, One End Tapped	P.845			
	One End Stepped and Tapped	P.847			
	One End Stepped, Both Ends Tapped	P.849			
	One End Stepped with Retaining Ring Groove	P.857			
	Both Ends Stepped	P.851			
	Both Ends Stepped and Threaded	P.853			
	Both Ends Stepped and Tapped	P.855			
Both Ends Stepped	Both Ends Stepped with Retaining Ring Grooves	P.857			
	Both Ends Stepped, One End Threaded	P.859			
	Both Ends Stepped, One End Threaded, One End Tapped	P.859			
	Both Ends Double Stepped	P.861			

Rotary Shaft Alterations - Overview: For information about whether any alteration is available or not for the current rotary shaft, see the relevant product pages.							
Alterations		code	Dimension Increment	Ordering Code Example	Spec.		
Keyway	Alteration at one place	KC A	кс	KC, A = 1mm Increment	KC50-A10	↑ A, E, C≤100 ↑ If 3 keyways are required, use both KC and WKC. Not applicable to D=2-5. Shaft Dia.	
	Alteration at two places	WKC C E K	WKC	WKC, C, K, E = 1mm Increment	WKC50-C8-K40-E10	6-7 2 -0.004 12 8-10 3 -0.029 18 11-12 4 25 +0.03 18-22 6 -0.03 35 18-22 6 0 40 005	
	Shaft End Keyway	PKC OKC	PKC QKC	PKC, QKC = 1mm Increment	PKC10, QKC15	31-38 10 -0.036 5.0 +0.20 0.25 PKC, QKC_550PKC(QKC);SF(T) 45-50 14 -0.043 5.5 +0.20 0.4 Mot applicable to P, Q=5 or less. CKeyway(S) and set screw flats are added in the same plane. When the distance of the alterations are over 500mm, ±2 degree phase differential may occur.	
Set Screw Flat	Alteration at one place		FC	FC, G = 1mm Increment	FC10-G3	 ♠G, J, V≤50 ♠Keyway(s) and set screw flats are added in the same plane. When the distance of the alterations are over 500mm, ±2 degree phase de-17 1 1 18-40 2 	
	Alteration at two places	H OH	WFC	WFC, J, W, V = 1mm Increment	WFC10-J3-W10-V3		
2 Set	2 Set Screw Flats (Angle Specified)	A ST G	KFC	KFC, G = 1mm Increment AG = 15° Increment	KFC10-G3-A90	Audus a set screw lind at any desired unige describes the clautin plane (u.). D. H. © 6:50 3-5 0.5 When combined with other alterations, ±2 degree phase differential may occur. D. H. 3-5 0.5	
	Both Ends 2 Set Screw Flats (Angle Specified)	NWC KWC W	KWC	KWC = 1mm Increment	KWC20	Adds 2 Set Screw Flats at both ends. D W D W € KWC≤B-m, S-m 8 7 25 20 10 8 30 25 12 9 35 30 25 15 12 40 35 20 16 50 45	
	Configure Chamfer Depth	wc	wc	WC = 0.1mm Increment	WC6.8	Chamfering depth can be specified in 0.1mm increments. D WC D WC ♠ Applicable only when KWC alteration is performed. 8 4.0-6.9 25 17.0-19.9 ↑ Applicable to D8 or more. 12 6.0-8.9 35 27.0-29.9 15 9-0-11.9 40 20.20-34.9 20 13.0-15.9 50 42.0-44.9	
L Dimension Tolerance		LKC	-	LKC	Changes L dimension tolerance. • L<500 -> L±0.05 L±0.05 -> L±0.1		
Concentricity		◎ 00.02	СКС	-	CKC	Changes the concentricity to @0.02. Papplicable within dimension L range in the table shown on the right. Not applicable to D part of h9 (Cold-drawn).	
Slit Can	n Groove		UC	UC = 1mm Increment	UC10	Adds a slit cam groove.	
Wrench Flats		₩	SC	SC = 1mm Increment	SC10	Adds a wrench flat. SC=0 or SC≥1 S hot applicable to D2 and D2.5. New Yeyney(s) and set screw flats are added in the same plane. When the distance of the alterations are over 500mm, ±2 degree phase differential may occur.	
Left-hand Thread PIM OLM		PLM QLM		PLM (QLM)	Changes the threads on shaft end P(0) to Left-hand Thread. PApplicable to Both Ends Threaded Type only. Combination with PMC and QMC is not applicable.		
Fine 1	Γhread	PMC (Fine) OMC (Fine)	PMC QMC		PMC20 (QMC16)	Changes threads to Fine Thread in the table shown on the right. D	
	ing Ring oove		TA TB	TA, TB = 1mm Increment	TA10-TB10	Adds a retaining ring groove. (Applicable retaining rings are included.) • 4≤TA, TB <u 2="" <b="" dimensions="" for="" groove,="" of="" retaining="" ring="" the="" •="">BT P820</u>	
Slit A	Added		ММ		ММ	Slot is added to D dimensioned section. ① When specified together with WC, in-plane interface is not available. ② Not applicable to D35 or more. D N V 6-13 1.2 1.5 15-20 2.0 2.5 22-30 3.0 3.8	
	ercut nsions		PC	-	PC (QC)	PC, QC: Adds an undercut on P and Q. (For undercut dimension details, refer to P820. F-B-SMx2 Neveribable widen P. P. a. P. Q.	

Not applicable when D=P or D=Q.