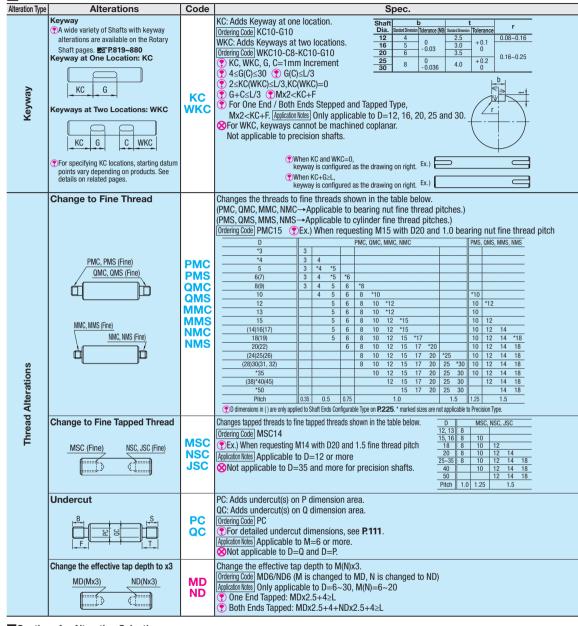
## **Shaft Alterations - Overview**

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	Alterations - Overview	0-1	0
Alteration Type		Code	Spec.
ige	L Dimension Tolerance Change (Precision)	LKC	Changes "L Tolerance" to a higher precision level. $\bigcirc$ L<200      L±0.03         Ordering Code] LKC       200≤L<500
Tolerance Change	Revise O.D. Tolerance to h5	DKC	O.D. tolerance is altered to h5.
	Wrench Flats at One Location	SC	
Wrench Flats	Wrench Flats at Two Locations	WSC	Adds Wrench Flats at two locations.   D   W   £1   D   W   £1     Ordering Code  WSC12-X8   6(7)   5   8(9)   7   8     WSC, X=1mm Increment   10   8     WSC+X+£1x2 <l 10="" 11="" 12="" 13="" 14="" 16(17)="" applicable="" application="" available="" between="" combination="" coplanar.="" d="6" flats="" in="" is="" more="" not="" notis]="" or="" owsc(x)≥0="" owscorrentation="" sc="" sx.<="" td="" to="" with="" wrench="" wsc+x+£1x2<l=""  =""></l>
	Second Set of Wrench Flats  SC A A SX W	SX	Adds a second set of Wrench Flats.    D   W   £1   D   W   £1
Set Screw Flat	Set Screw Flat at One Location  FC A(E)  Specifying FC starting datum points vary depending on products. See each product page for details.	FC	
	Set Screw Flats at Two Locations	WFC	$ \begin{array}{c c} \text{Adds Set Screw Flats at two locations.} & \begin{array}{c c} D & h \\ \hline \text{Drdering Code} \end{array} \\ \hline \text{WFC 10-A8-E20} & \begin{array}{c} 3 \sim 5 & 0.5 \\ \hline \text{6-18} & 1 \\ \hline \text{20-40} & 2 \\ \hline \text{3c} & 5 & 3 \\ \hline \end{array} \\ \hline \text{WFC 3xD} & \begin{array}{c} 5 & 0.5 \\ \hline \text{6-18} & 1 \\ \hline \text{20-40} & 2 \\ \hline \text{50} & 3 \\ \hline \end{array} \\ \hline \text{$\P$ Mhon 1.5xD < WFC, 2WFC \le L/2} \\ \hline \text{$\P$ A(E)=0 or $A(E) \ge 2$} \\ \hline \text{$\Theta$ Orientation between set screw flats is not coplanar. Not available in combination with FC.} \\ \hline  \end{array} $
	90-deg. Set Screw Flat at One Location	RC	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	90-deg. Set Screw Flats at Two Locations  N WRC b1 y	WRC	Adds 90-deg. Set Screw Flats at two locations.       D       b₁       h         [Drdering Code] WRC10-Y10       10       6       0.5         ③ WRC=1mm Increment       12-20       6       1.0         ② WRC+b1≤L       25       10       1.0         ③ WRC(Y)≥2       30       12       1.0         【Application Notes] Only applicable to D=10 ~ 30.       30       Note applicable to Precision Type.
V Groove	V Groove at One Location	VC	Adds V Groove at one location.   VC=1mm Increment  VC>W  Replication Notes] Applicable to D=6 or more  Different from VC Hollow Shafts.
	V Grooves at Two Locations	WVC	V Grooves at Two Locations   D   W

## Shaft Alterations - Overview



## Cautions for Alteration Selections

• When selecting multiple alteration additions, the distance between machined areas should be greater than 2mm. (See below)

