



Knurled Handwheels

Aluminum / Stainless Steel

Knurled Handwheels – Aluminum



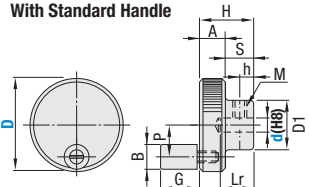
Knurled Handwheels – Stainless Steel



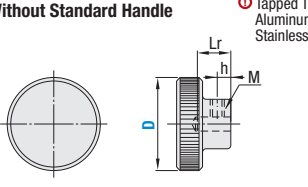
RoHS 10

Type		Shape	Tap	Handwheel		Handle		Handle Thread	
With Handle	Without Handle			Material	Surface Treatment	Material	Material	Material	Surface Treatment
HOK	HOKN	Standard	With Tap	5056 Aluminum Alloy	Black Anodize	Nylon6 (Black)	12L13 Carbon Steel	Black Oxide	
HBK	HBKN		Without Tap						
HOKW	HOKNW		With Tap						
HBKW	HBKNW		Without Tap						
HOKS	HBKNS	Slit	With Tap	304 Stainless Steel	—	304 Stainless Steel	304 Stainless Steel	—	
—	HBKNS		Without Tap						
HOKP	HOKNP	Slit	With Tap	5056 Aluminum Alloy	Black Anodize	Nylon6 (Black)	12L13 Carbon Steel	Black Oxide	
—	HOKNP		Without Tap						

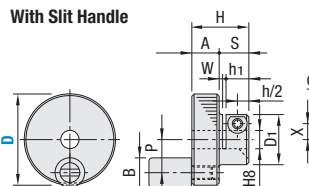
With Standard Handle



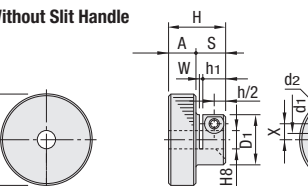
Without Standard Handle



With Slit Handle



Without Slit Handle



The drawing shows the Tapped Type.
 Tapped Type comes with one set screw.
 Aluminum: 4137 Alloy Steel, Black Oxide
 Stainless Steel: 304 Stainless Steel

Part Number		Standard Type (Selectable)	With Slit	With Slit														Mass (g)						
With Handle	Without Handle			D	H	A	S	D ₁	L _r	h	h ₁	W	X	Y	d ₁	d ₂	M ₁	Reference Tightening Torque (Nm)	P	B	G	M	Aluminum	Stainless Steel
Standard HOK (Black) HBK (Black) HOKW (White) HBKW (White) HOKS (Stainless Steel) HBKNS (Stainless Steel)	HOKN (Black) HBKN (Black) HOKNW (White) HBKNW (White) HBKNS (Stainless Steel) HBKNS (Stainless Steel)	40	*6	8	8	25	12	13	22	15	6.5	10	7	4.5	8.5	4.5	M4	1.5	14.5	13	18.8	5	50	150
		50	*8	10	10	28	13	15	27	18	7.5	11	1.5	9	5		1.5	17				87	255	
		63	*10	12	12	32	14	18	35	22	9	12		11	6	10	5.5	M5	3.0	23	14	20.8	161	460
With Slit HOKP (Black)	HOKNP (Black)	80	*12	16	—	40	15	25	45	28	12.5						—	30	16	23.8	6	299	855	

*marked sizes are applicable to HOK and HOKN only. Only D=40 / 50 / 63 are available for With Slit. When d dimensions are not specified, then 40-8 / 50-10 / 63-12 or 80-16.

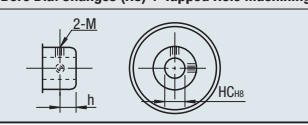
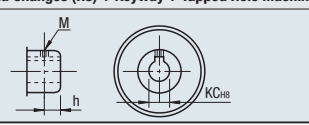
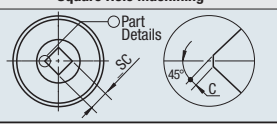
Part Number Example

Part Number	d
HOK40	6
HBKNW40	8
HOKP63	12

Part Number Alterations


Part Number	(HC / KC / SC)
HBK50	HC10

Shaft Bore is a Through-Bore. Not applicable for With Slit

Alterations	Shaft Bore Dia. Changes (H8) + Tapped Hole Machining	Shaft Bore Dia. Changes (H8) + Keyway + Tapped Hole Machining	Square Hole Machining																																																
																																																			
Code	HC	KC	SC																																																
Spec.	Adds a H8 hole at hub center, and two tapped setscrew holes. Comes with one set screw. HC=1 mm Increment Ordering Code: HC16	Adds a H8 hole at hub center, a keyway and its tapped hole. Comes with one set screw. KC=Selectable Ordering Code: KC15	Adds a square hole at hub center. Comes with one set screw for Tapped Type. SC=1mm Increment Ordering Code: SC12																																																
	<table border="1"> <tr><th>D</th><th>HC (H8)</th><th>M</th></tr> <tr><td>40</td><td>8-12</td><td></td></tr> <tr><td>50</td><td>10-15</td><td></td></tr> <tr><td>63</td><td>12-20</td><td></td></tr> <tr><td>80</td><td>16-24</td><td></td></tr> </table>	D	HC (H8)	M	40	8-12		50	10-15		63	12-20		80	16-24		<table border="1"> <tr><th>D</th><th>KC (H8)</th><th>M</th></tr> <tr><td>40</td><td>10 11</td><td rowspan="2">5</td></tr> <tr><td>50</td><td>10 11 12</td></tr> <tr><td>63</td><td>12 14 15</td><td rowspan="2">6</td></tr> <tr><td>80</td><td>16 17</td></tr> </table>	D	KC (H8)	M	40	10 11	5	50	10 11 12	63	12 14 15	6	80	16 17	<table border="1"> <tr><th>D</th><th>SC</th><th>SC</th><th>Tolerance</th><th>C</th></tr> <tr><td>40, 50</td><td>10-12</td><td>10-14</td><td>+0.1</td><td>0.5</td></tr> <tr><td>63</td><td>10-15</td><td>15-23</td><td>+0.15</td><td>1</td></tr> <tr><td>80</td><td>10-23</td><td></td><td></td><td></td></tr> </table>	D	SC	SC	Tolerance	C	40, 50	10-12	10-14	+0.1	0.5	63	10-15	15-23	+0.15	1	80	10-23			
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	<table border="1"> <tr><th>HC (H8)</th><th>M</th></tr> <tr><td>8-15</td><td>M5</td></tr> <tr><td>16-22</td><td>M6</td></tr> <tr><td>23-24</td><td>M8</td></tr> </table>	HC (H8)	M	8-15	M5	16-22	M6	23-24	M8	<table border="1"> <tr><th>KC (H8)</th><th>Dimensions</th><th>Tolerance</th><th>t</th></tr> <tr><td>10 11 12</td><td>4</td><td></td><td>1.8</td></tr> <tr><td>14 15 16 17</td><td>5</td><td>±0.0150</td><td>2.3</td></tr> <tr><td>18 19 20 21</td><td>6</td><td></td><td>2.8</td></tr> </table>	KC (H8)	Dimensions	Tolerance	t	10 11 12	4		1.8	14 15 16 17	5	±0.0150	2.3	18 19 20 21	6		2.8																									
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Knurled Knobs / Thick Knurled Knobs

Knurled Knobs



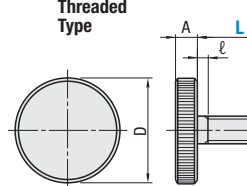
RoHS 10

Type			Material	Surface Treatment
L Dimension Standard	L Dimension Configurable	Tapped		
NOB	—	NOM	1215 Carbon Steel	Buff Polished Chrome Plating
NOOS	NOOSF	NOMS	303 Stainless Steel	NOOS / NOOSF: Brushed Finish NOMS: None
NOBB	—	NOMB	1215 Carbon Steel	Black Oxide

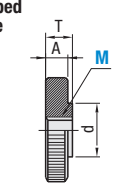
Stepped Type

Type			Material	Surface Treatment
L Dimension Standard	L Dimension Configurable	Tapped		
NKB	—	NKM	1215 Carbon Steel	Buff Polished Chrome Plating
NKOS	NKOSF	NKMS	303 Stainless Steel	NKOS / NKOSF: Brushed Finish NKMS: None
NKBB	—	NKMB	1215 Carbon Steel	Black Oxide

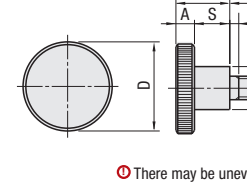
Threaded Type



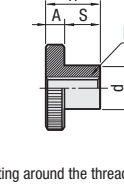
Tapped Type



Threaded Type




Tapped Type



There may be uneven chrome coating around the threads.

Part Number		M (Coarse)	L (Threaded)		D	d	A	T	H	S	ℓ
Type			Stationary	Configurable in 1 mm Increment							
Threaded L Dimension Standard	NOB	3	6 10 16	6-16	12	6	2.5	3	7.5	5	1
	NOOS	4	6 10 16 20	6-20	16	8	3.5	4	9.5	6	1.2
	NOBB	5	10 16 20 25	10-25	20	10	4	5	11.5	7.5	1.4
	Stepped Type										
Stepped Type	NKB	6	10 16 20 25 30	10-30	24	12	5	6	15	10	1.5
	NKOS	8	16 20 25 30	16-30	30	16	6	8	18	12	2
	NKBB	10	20 25 30 40	20-40	36	20	8	10	23	15	2.5

Thick Knurled Knobs



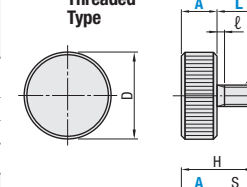
RoHS 10

Type			Material	Surface Treatment
L Dimension Standard	L Dimension Configurable	Tapped		
NOBA	—	NOMA	1212 Carbon Steel	Buff Polished Chrome Plating
NOOSA	NOOSAF	NOMSA	303 Stainless Steel	Brushed Finish
NOBAB	—	NOMAB	1212 Carbon Steel	Black Oxide

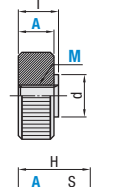
Stepped Type

Type			Material	Surface Treatment
L Dimension Standard	L Dimension Configurable	Tapped		
NKBA	—	NKMA	1212 Carbon Steel	Buff Polished Chrome Plating
NKOSA	NKOSAF	NKMSA	303 Stainless Steel	Brushed Finish
NKBAB	—	NKMAB	1212 Carbon Steel	Black Oxide

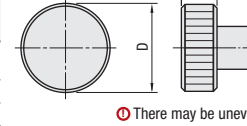
Threaded Type



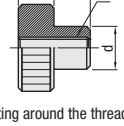
Tapped Type



Threaded Type



Tapped Type



There may be uneven chrome coating around the threads.

Part Number		M (Coarse)	L (Threaded)		A	D	d	T	H	S	ℓ
Type			Stationary	Configurable in 1 mm Increment							
Threaded L Dimension Standard	NOBA	3	6 10	6-10	5	12	6	5.5	10	5	1
	NOOSA	4	6 10 16	6-16	6			6.5	11		
	NOBAB	5	10 16 20	10-20	7			9	13		
	Stepped Type							12	13.5		
Stepped Type	NKBA	6	10 16 20 25 30	10-30	8	16	8	7.5	13	6	1.2
	NKOSA	8	16 20 25 30	16-30	9			10.5	15		
	NKBAB	10	20 25 30 40	20-40	11			12	17		
								18.5	23		
					8	20	10	9	15.5	7.5	1.4
					10			11	17.5		
					12			13	19.5		
					26			29.5	33.5		
					10	24	12	11	20	10	1.5
					13			14	23		
					15			16	25		
					25			26.5	35		
					12	30	16	14	24	12	2
					15			17	27		
					30			31.5	42		
					16			18	31		
					20	36	20	22	35	15	2.5
					16			18	31		
					40			22	35		
					40			41.5	55		

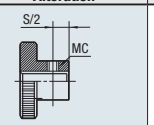
Part Number Example

Part Number	L	A
NOB3	10	
NOBA4	6	7

Part Number Alterations

Part Number	(MC)
NKMS6	MC

Alteration

Alteration	Code	Spec.								
	MC	Adds a tap for a set screw on Tapped Type NKMS (Stainless Steel Type) Applicable to M≥6								
		<table border="1"> <tr><th>M</th><th>MC</th></tr> <tr><td>6</td><td>M3</td></tr> <tr><td>8</td><td>M4</td></tr> <tr><td>10</td><td>M5</td></tr> </table>	M	MC	6	M3	8	M4	10	M5
M	MC									
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