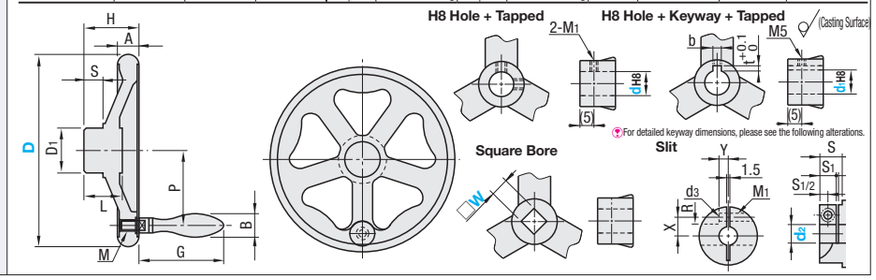
Five Spoked Handwheels

I.D. Shaft Bore Shape	Type: Stationary Handles	Type: Revolving Handles	Type: Without Handle	Handwheel: M Material	Handwheel: S Surface Treatment	Handle: M Material	Handle: S Surface Treatment	Handle Thread: M Material	Handle Thread: S Surface Treatment	Included Screw: M Material	Included Screw: S Surface Treatment
No Hole	AHLN	AHLNK	AHLN-R	EN-JL 1030 Equiv.	Chrome Plating	EN 1.0038 Equiv.	Chrome Plating	EN 1.0038 Equiv.	Chrome Plating	-	-
	AHLNA	AHLNAK	-	EN AC-46200 Equiv.	Shot Blasted	EN AW-2024 Equiv.	Shot Blasted				
H8 Hole + Tapped	AHLNM	AHLNKM	-	EN-JL 1030 Equiv.	Chrome Plating	EN 1.0038 Equiv.	Chrome Plating				
H8 Hole + Keyway + Tapped	AHLNKC	AHLNKCK	-								
Square Bore	AHLNW	AHLNKW	-								
Slit	-	AHLND	-	EN AC-46200 Equiv.	Shot Blasted	EN AW-2024 Equiv.	Shot Blasted			Structural Alloy Steel	Trivalent Chromate
	-	AHLNF	-	EN-JS 1050 Equiv.	Chrome Plating	EN 1.0038 Equiv.	Chrome Plating				



Part Number Type	D	H	A	D1	L	S	M Steel	M Aluminum	B	G Stationary	G Revolving	P	H8 Hole + Tapped: d	H8 Hole + Tapped: M1 (Coarse)	H8 Hole + Keyway + Tapped: d1	H8 Hole + Keyway + Tapped: b	H8 Hole + Keyway + Tapped: t	Square Bore: W Selection	Slit: d2	Slit: S1	Slit: X	Slit: Y	Slit: R (Radius)	Slit: d3	Hex Socket Head Cap Screw: M1 (Coarse)	AHLND Reference Tightening Torque (N・m)	AHLNF Reference Tightening Torque (N・m)	Reference Mass (g): Steel	Reference Mass (g): Aluminum
No Hole / AHLN / AHLNA / AHLNK / AHLNAK / H8 Hole + Tapped / AHLNM / AHLNKM / H8 Hole + Keyway + Tapped / AHLNKC / AHLNKCK / Slit / AHLND / AHLNF	80	36	14	24	24	15	5	8	13	38.5	49	28	10		10	3	1.4	10	*10	12	9	8	8.5	4.5	4	3	3	380	160
Square Bore / AHLNW / AHLNKW	100	39	16	30	28							37		5	12	4	1.8	12	12									600	250
													12						*12						5	5		
	125	40	17	33			6		16	48.5	55	46.5							12		13	8	9.5	5.5	5			900	345
	140	44	18	35	30	16						53.5	15		15	5	2.3		-	-	-	-	-	-	-	-	-	1100	425
	160	46	18.5	37	32		8		20	62.5	70.7	62.5						14	16	14	15	10.5	12.5	6.5	6	10	-	1400	560
													16	6	16	5	2.3		20										
	200	59.5	24	43	41	19	10	10	25	77.5	87.3	81						17	16		16.5	11				11		2800	1140
	250	65.5	27	48	44			-				100	20		20	5	2.3		20	-	-	-	-	-	-	-	-	4900	-

* marked items are applicable to Slit Type AHLNF only.

For "H8 Hole + Keyway + Tapped" Type, the size of d1 dim. 20 is not JIS Standard-compliant. If any JIS Standard-compliant size is preferred, specify "No Hole Type + Alteration KC18."

Ordering Example — Part Number: AHLN160 / AHLNF80 — d2: - 10

D	Unit Price: No Hole: AHLN	AHLNK	AHLNA	AHLNAK	H8 Hole + Tapped: AHLNM	AHLNKM	H8 Hole + Keyway + Tapped: AHLNKC	AHLNKCK	Square Bore: AHLNW	AHLNKW	Slit: AHLND	AHLNF	No Hole, Without Handle: AHLN-R
80													
100													
125													
140											-	-	
160												-	
200												-	
250			-	-							-	-	-

Alteration: Part Number - (HC, KC, SC) — AHLNAK200 - SC20

Alterations	H8 Hole (Dimension Configurable) + Tapped Hole Machining	H8 Hole (Dimension Configurable) + Keyway + Tapped Hole Machining	Square Broaching (Dimensions Configurable)
Code	HC	KC	SC
Spec.	Adds an H8 hole at hub center, and two tapped setscrew holes. HC=1mm Increment. Ordering Code: HC16	Adds an H8 hole at hub center, a key groove and its tapped hole. KC = Selectable. Ordering Code: KC15	Adds a square bore at hub center. SC=1mm Increment. Ordering Code: SC12

HC:

D	HC (H8)	h
80	10~15	6
100	10~16	
125	12~18	
140	14~19	8
160	14~20	
200, 250	16~23	10

HC (H8)	M (Coarse)
10~16	5
17~19	6
20~23	8

KC:

D	KC (H8)	M	h
80	10, 11, 12	5	6
100			
125	12, 14		
140	14, 15, 16		8
160			
200, 250	16, 17, 18	6	10

KC (H8)	b: Dimension	b: Tolerance	t
10	3	±0.0125	1.4
11, 12	4		1.8
14~17	5	±0.0150	2.3
18	6		2.8

SC:

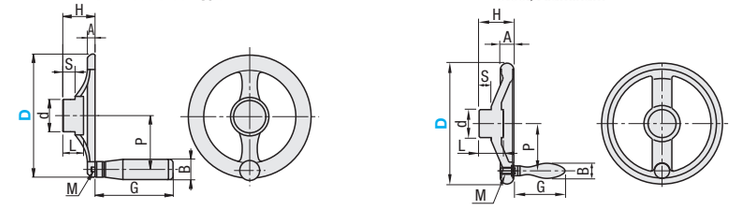
D	SC
80, 100	10~12
125	10~14
140, 160	10~17
200, 250	10~20

SC	Tolerance	C
10~14	+0.1 0	0.5
15~20	+0.15 0	1

Two Spoked Handwheels

Type: Without Handle	Type: Stationary Handles	Type: Revolving Handles	Handwheel: M Material	Handwheel: S Surface Treatment	Handle: M Material	Handle: S Surface Treatment	Handle Thread: M Material	Handle Thread: S Surface Treatment
SHLNN	-	SHLN	EN 1.4581 Equiv. (EN 1.4401 Equiv.)	Shot Blasted	EN 1.4301 Equiv.	Electrolytic Polishing	EN 1.4301 Equiv.	Electrolytic Polishing
-	AHTN	AHTNK	EN-JL 1030 Equiv.	Chrome Plating	EN 1.0038 Equiv.	Chrome Plating	EN 1.0038 Equiv.	Chrome Plating
-	-	AHTNAK	EN AC-46200 Equiv.	Shot Blasted + Buffing	EN AW-2024 Equiv.	Shot Blasted		
-	AHTNA	-						

Stainless Steel Type / Steel, Aluminum (Casting Surface)



RoHS10

Stainless Steel Handles are GRMS on **P.1150**, Steel Handles are GRMK on **P.1150**, and Aluminum Handles are GRMAK on **P.1150**.

Stainless Steel: SHLNN, SHLN

Part Number Type	D	H	A	S	d	L	M	B	G	P	Reference Mass (g): With Handle	Reference Mass (g): Without Handle
Without Handle / SHLNN / Revolving Handles / SHLN	80	22	6.5	7	20	11.7	5	10	45	35.6	425	400
	100	27	7.5	8.7	25	14.6	6	13	57	43.5	605	550
	125	32	8	10.9	31	18.3				54.7	755	700
	140	36	9	12.2	35	20.5	8	16	68	62.5	935	880
	160	40	9	14	40	23.4				71.5	1300	1200
	200	50	11.3	17.4	50	32	10	20	80	90	2180	2000

Steel: AHTN, AHTNK / Aluminum: AHTNA, AHTNAK

Part Number Type	D	H	A	S	d	L	M: Steel	M: Aluminum	B	G: Stationary	G: Revolving	P	Reference Mass (g): Steel	Reference Mass (g): Aluminum
Steel Stationary Handles / AHTN / Steel Revolving Handles / AHTNK / Aluminum Stationary Handles / AHTNA / Aluminum Revolving Handles / AHTNAK	80	36	14	15	24	24	5	8	13	38.5	49	28	370	138
	100	39	15		30	28						37	575	215
	125	40	16		33		6		16	48.5	55	46.5	895	310
	140	44	17	16	35	30						52.5	1095	380
	160	46	18		37	32	8		20	62.5	70.7	62.5	1460	485
	200	59.5	24	19	43	41	10	10	25	77.5	87.3	81	2890	890

Ordering Example — Part Number: AHTN80 / SHLN100 / AHTNAK200

D	Unit Price: SHLN	SHLNN	AHTN	AHTNK	AHTNA	AHTNAK
80						
100						
125						
140						
160						
200						

Alterations — Part Number - (HC, KC, SC)

AHTN80 - HC10
SHLN100 - KC11
AHTNAK200 - SC20

Alterations	H8 Hole + Tapped Hole Machining	H8 Hole + Keyway + Tapped Hole Machining	Square Bore Machining
Code	HC	KC	SC
Spec.	Adds an H8 hole at hub center, and two tapped setscrew holes. HC=1mm Increment. Ordering Code: HC16	Adds an H8 hole at hub center, a key groove and its tapped hole. KC = Selectable. Ordering Code: KC15	Adds a square bore at hub center. SC=1mm Increment. Ordering Code: SC12

HC:

D	HC (H8)	h
80	10~15	6
100	10~16	
125	12~18	
140	14~19	8
160	14~20	
200	16~23	10

HC (H8)	M (Coarse)
10~16	5
17~19	6
20~23	8

KC:

D	KC (H8)	M	h
80	10, 11, 12	5	6
100			
125	12, 14		
140	14, 15, 16		8
160			
200	16, 17, 18	6	10

KC (H8)	b: Dimension	b: Tolerance	t
10	3	±0.0125	1.4
11, 12	4		1.8
14~17	5	±0.0150	2.3
18	6		2.8

SC:

D	SC
80, 100	10~12
125	10~14
140, 160	10~17
200	10~20

SC	Tolerance	C
10~14	+0.1 0	0.5
15~20	+0.15 0	1