

Three Spoked Offset Handwheels · Standard/Slit ▶

Revolving Handle

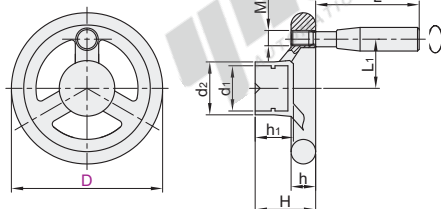
Handwheels

Standard

Code	Type	Installation	Hub		Handwheel	Handle Mounting Hole	Handle	Handle Thread	
			Material	Surface Treatment	Material	Material	Material	Material	Surface Treatment
HAL81	Standard	Without Hole*	HT200	Black Oxide	PF	Brass	PF	S35C	Zinc-plated
HAL83		Hole + Tap	SUS303	—					
HAL84			HT200	Black Oxide					
HAL86		Keyway + Tap	SUS303	—					
HAL87			HT200	Black Oxide					
HAL89		Square Hole	HT200	Black Oxide					



* is a "Without Hole" Type, but there is a pilot hole for manufacturing.
D80 through 125: Ø6, with depth of around 10mm.
D140~200: Ø6 through Ø8, with depth of around 10mm.



Shaft Bore Config. Selection			
Without Hole	Hole + Tap	Keyway + Tap	Square Hole

Without Hole

Part Number	D	L	L1	H	h	h1	d1	d2	M	Reference Weight (kg/pcs)
HAL81	80	40	26	32	13	25	20	28	8	0.14
	100		37	36		28	25	35		0.20
	125	55	50	40	17	30		40		0.33
	140		55	41	18		30	45		0.41
	160	67	65	47	20	35			10	0.49
	180		73	50	23		35	50		0.64
	200	74	80	54		40				0.78

Keyway Size

d	d Tol.	f	s
10	+0.036 0	11.4	3
12		13.8	4
15	+0.043 0	17.3	5
16		18.3	5

Hole + Tap/Keyway + Tap

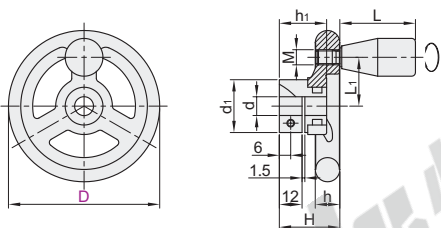
Part Number	D	d	M1	L	L1	H	h	h1	d1	d2	M	Reference Weight (kg/pcs)
Hole + Tap	80	10 12 14	5	40	26	32	13	25	20	28	8	0.14
	100	10 12 15			37	36		28	25	35		0.20
	125	12 16 18		55	50	40	17	30		40		0.33
	140	15 18 20			55	41	18	30	30	45		0.41
Keyway + Tap	160		6	67	65	47	20	35			10	0.49
	180	16 18 20			73	50	23		35	50		0.64
	200			74	80	54		40				0.78

Square Hole

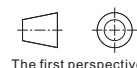
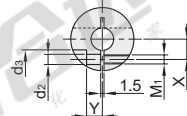
Part Number	D	W	L	L1	H	h	h1	d1	d2	M	Reference Weight (kg/pcs)
HAL89	80	10		26	32	13	25	20	28	8	0.14
	100		40	37	36		28	25	35		0.20
	125	12	55	50	40	17	30		40		0.33
	140	14		55	41	18	30		45		0.41
	160		67	65	47	20	35			10	0.49
	180	14		73	50	23		35	50		0.64
	200	17	74	80	54		40				0.78

Slit

Code	Type	Installation	Hub		Handwheel	Handle Mounting Hole	Handle	Handle Thread	
			Material	Surface Treatment	Material	Material	Material	Material	Surface Treatment
HAL91	Slit	Screw Clamp	S45C	Black	PP	Brass	PF	1215MS	Zinc-plated



Clamping position detailed size



The first perspective

Part Number	D	H	h	h1	L	L1	d	d1	d2	d3	M	M1	X	Y	Reference Weight (kg/pcs)
HAL91	80	32	13	25	40	26	10	28	4.5	8.5	8	4	9	7	0.14
	100	36				37									0.20
	125	40	17	28	55	50	12	35	5.5	10		5	10	9	0.33

Standard(Without Hole)

Part Number	D	L
HAL81	80	40

HAL81—D80

Standard(Hole + Tap)

Part Number	D	d
HAL83	80	10 12 14
	100	10 12 15

HAL83—D80—d10

Standard(Square Hole)

Part Number	D	W
HAL89	80	10
	100	12 14

HAL89—D80—W10



Please order as shown



Discount price
Per 1~9 10~
Price 100% Additional quotation



Delivery
6

Handwheel