H8C



test certificate no. TC8012 Revision 1
C of C no R60/2000–NL1–12.12

Certificate no. 12–028

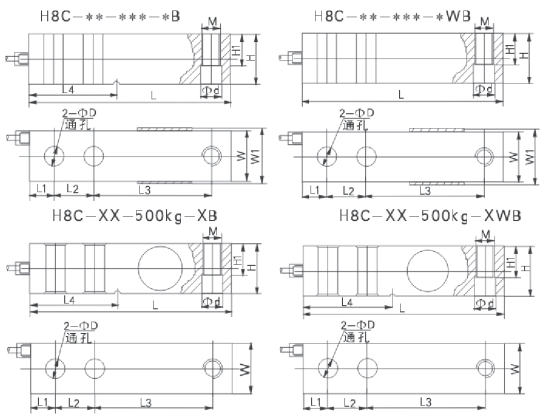
- Nickel plated alloy steel IP67 shear beam load cell (100 kg, 250kg are bending beam load cells)
- Adhesive sealed
- Suitable platform weighing, bed weighing, etc.
- High accuracy
- High reliability
- Current calibrated (sc–option)

Specification

Maximum capacity (Emax)	t	0.5/1/2/2.5/3/4/5/6/7.5				
	klb	1/1.5/2/2.5/3/4/5/7.5/10/20				
Accuracy class		C3	C4	C5	A5M	B10M
Approvals		OIML R60 C3	OIML R60 C4	OIML R60 C5	Ⅲ 5000 Multiple	Ⅲ L 10000 Multiple
Maximum number of load cell intervals (nLC)		3000	4000	5000	5000	10000
Ratio of minimum LC verification interval Y = Emax / vmin		10000	14000	18000	15000	10000
Combined error	%FS	± 0.020	± 0.018	± 0.010	± 0.026	± 0.050
Creep	%FS/30min	± 0.016	± 0.012	± 0.010	± 0.017	± 0.040
Temperature effect on sensitivity	%FS/10℃	± 0.011	± 0.009	± 0.008	± 0.013	± 0.040
Temperature effect on zero	%FS/10℃	± 0.015	± 0.010	± 0.007	± 0.014	± 0.020
Output sensitivity (= FS)	mV/V	3.0 ± 0.003		2.0 ± 0.002		
Input resistance	Ω	350 ± 3.5				
Output resistance	Ω	350 ± 3.5				
Insulation resistance	MΩ	⩾ 5000(50VDC)				
Zero balance	%FS	± 1.0				
Compensated temperature	℃	–10 ~ +40				
Operating temperature	℃	–35 ~ +70				
Excitation, recommended voltage	V	5 ~ 12(DC)				
Excitation maximum	V	18(DC)				
Safe overload	%FS	150				
Ultimate overload	%FS	300				
Recommended torque on fixation	N.m	M12: 100, M18: 200, M24: 700				
Ingress protection (according to EN 60529)		IP67				
ATEX classification (optional)		II1G Ex ia II1C T4		II1D Ex iaD20 T73℃		II3G Ex nL II C T4

"S1" Output Sensitivity is 2.0 ± 0.002MV/V

Dimensions in mm

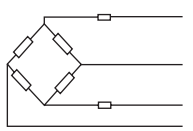


Dimension / Capacity	L	L1	L2	L3	L4	H
0.5t–2t	130.0 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	54.2 (2.13)	31.8 (1.25)
1K–4K	130.0 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	54.2 (2.13)	31.8 (1.25)
5KSE	130.0 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	54.2 (2.13)	31.8 (1.25)
2.5t–5t	171.5 (6.75)	19.1 (0.75)	38.1 (1.5)	95.3 (3.75)	77.2 (3.04)	38.1 (1.5)
5K–10K	171.5 (6.75)	19.1 (0.75)	38.1 (1.5)	95.3 (3.75)	77.2 (3.04)	38.1 (1.5)
10t	222.3 (8.75)	25.4 (1.0)	50.8 (2.0)	120.7 (4.75)	101.6 (4)	50.8 (2.0)
20K	222.3 (8.75)	25.4 (1.0)	50.8 (2.0)	120.7 (4.75)	101.6 (4)	50.8 (2.0)

Dimension / Capacity	H1	W	W1	D	d	M
0.5t–2t	15.8 (0.62)	31.8 (1.25)	34.0 (1.34)	13.5 (0.53)	13.5 (0.53)	M12 × 1.75
1K–4K	15.8 (0.62)	31.8 (1.25)	34.0 (1.34)	13.5 (0.53)	13.5 (0.53)	1/2–20UNF
5KSE	15.8 (0.62)	31.8 (1.25)	34.0 (1.34)	13.5 (0.53)	13.5 (0.53)	1/2–21UNF
2.5t–5t	18.8 (0.74)	38.1 (1.5)	40.0 (1.57)	19.8 (0.78)	19.8 (0.78)	M18 × 1.5
5K–10K	18.8 (0.74)	38.1 (1.5)	40.0 (1.57)	19.8 (0.78)	19.8 (0.78)	3/4–16UNF
10t	25.4 (1.0)	50.8 (2)	52.4 (2.06)	26.9 (1.06)	26.0 (1.02)	M24 × 2
20K	25.4 (1.0)	50.8 (2)	52.4 (2.06)	26.9 (1.06)	26.0 (1.02)	1–12UNF

Dimension / Capacity	L	L1	L2	L3	L4	H	H1	W	W1	D	d	M
500kg	130.0 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	54.2 (2.13)	31.8 (1.25)	15.8 (0.62)	31.8 (1.25)	34.0 (1.34)	13.5 (0.53)	13.5 (0.53)	M12 × 1.75

Wiring

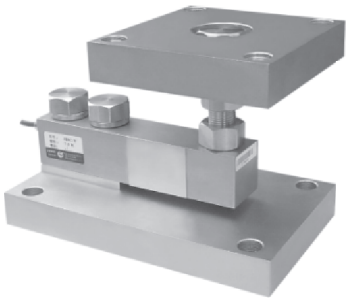


- Shielded, 4 conductor cable
- Cable diameter: Φ5mm.
- Standard cable length for 100kg – 2t: 4m and 6m for the higher capacities.
- Shield in not connected to the element.

Accessories

HM-8-402

Alloy steel,assembled with:H8C,B8D.

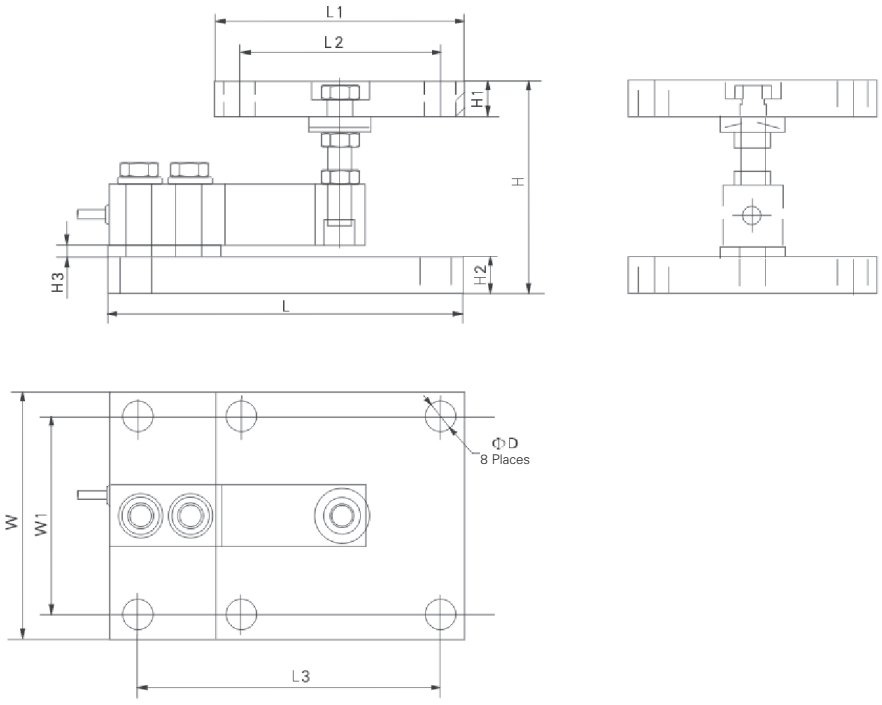


Capacity	Capacity
0.5t–2t	HM–8–402–0.5/2t
2.5t–5t	HM–8–402–2.5/5t
1klb–5KSE	HM–8–402–1/5KSE
5klb–10klb	HM–8–402–5/10K

Short description

- Compact construction, easy installation.
- Adjustable mounting height,
- Using under heavy static load or slight dynamic load.

Outline Dimension mm(inch)



Capacity(t) \ Dimension	L	L1	L2	L3	H	H1	H2	H3	W	W1	D
0.5t–2t (1klb–5KSE)	180.9 (7.12)	127 (5.0)	101.6 (4.0)	152.4 (6.0)	100–120 (3.94–4.72)	18 (0.71)	18 (0.71)	4.0 (0.16)	127 (5.0)	101.6 (4.0)	16 (0.63)
2.5t–5t (5klb–10klb)	215.9 (8.5)	127 (5.0)	101.6 (4.0)	177.8 (7.0)	130–150 (5.12–5.91)	26 (1.02)	26 (1.02)	4.0 (0.16)	127 (5.0)	101.6 (4.0)	16 (0.63)

Accessories

HY-8-102

Alloy steel,assembled with:H8C,B8D,HM8C,BM8D

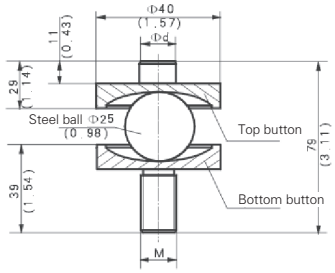


Short description

Easy installation, automatically centralized with steel ball, good self–aligning ability. Mainly used for platfrom scales, floor scales and other electronic weighing devices.

Capacity	Part number
0.5t–2t	HY–8–102–0.5/2t
2.5t–5t	HY–8–102–2.5/5t
250lb–5KSE	BY–8–104–250lb/5KSE
5klb–10klb	BY–8–104–5/10K

Capacity \ Dimension	Φd	M
0.5t–2t 250lb–5KSE	12 (0.47)	M12×1.75 1/2–20UNF
2.5t–5t 5klb–10klb	18 (0.71)	M18×1.5 3/4–16UNF



HY-8-105

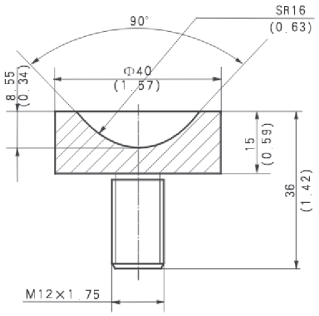
Alloy steel,assembled with:H8C,B8D,HM8C,BM8D



Short description

Easy installation, good self–aligning ability. Mainly used for platfrom scales and other electronic weighing devices.

Capacity	Part number
0.5t–2t	HY–8–105–0.5/2t



HJ-8-201

Alloy steel,assembled with:H8C

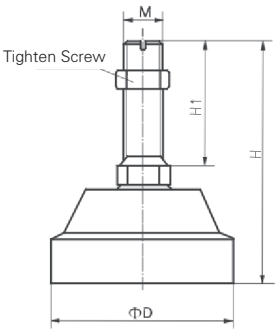


Short description

Easy installation, adjustable height, automatically centralized inside, good ability of anti–side loading. Mainly used for platfrom scales, and other electronic weighing devices.

Capacity	Part number
0.5–2t	HJ–8–201–0.5/2t
(0.5–2t)–M1	HJ–8–201–0.5/2t–M1
2.5–5t	HJ–8–201–2.5/5t
(2.5–5t)–M1	HJ–8–201–2.5/5t–M1
250lb–5KSE	HJ–8–201–250lb/5KSE
5klb–10klb	HJ–8–201–5/10K
10t	HJ–8–201–10t
15klb–20klb	HJ–8–201–15/20K

Capacity \ Dimension	D	H	H1	M
0.5t–2t	60 (2.36)	92 (3.62)	50 (1.97)	M12×1.75
250lb–5KSE				1/2–20UNF
2.5t–5t	80 (3.15)	105 (4.13)	50 (1.97)	M20×2.5 (Only for H8D)
5klb–10klb				M18×1.5(Only for H8C) 3/4–16UNF
10t	86 (3.39)	112 (4.41)	50 (1.97)	M24×2
15klb–20klb				1–12UNF
(0.5t–2t)–M1	60 (2.36)	92 (3.62)	50 (1.97)	M16×1.5



HJ-8-203

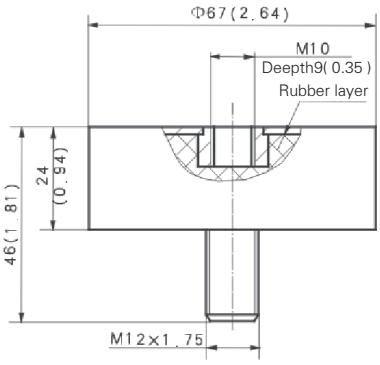
Alloy steel,assembled with:H8C,B8D,HM8C,BM8D



Capacity	Part number
0.5t–2t	HJ–8–203–0.5/2t

Short description

Alloy steel with rubber inside, slightly adjuestable of the slant, easy installation. Mainly used for platfrom scales, packaging scales, hybrid scales and other electronic weighing devices.



Accessories

HJ-8-208

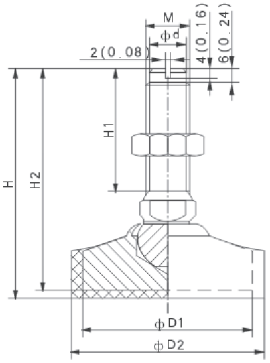


Short description

Easy installation, height adjustable, self–centralization, good anti–side loading ability.

Capacity	Part number
0.5t–2t	HJ–8–208–0.5/2t
2.5t–5t	HJ–8–208–2.5/5t
250lb–5KSE	HJ–8–208–250lb/5KSE
5klb–10klb	HJ–8–208–5/10K

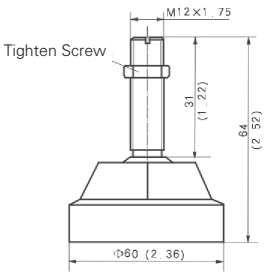
Number	Capacity	D1	D2	H1	H2	H	M	Assembled Products:
1	0.5–2t	48.5 (1.91)	60 (2.36)	42 (1.65)	69 (2.72)	74 (2.91)	M12 × 1.75	H8C
2	2.5–5t	70 (2.76)	80 (3.15)	50 (1.97)	90 (3.54)	95 (3.74)	M18 × 1.5	H8C
3	2.5–5t	70 (2.76)	80 (3.15)	50 (1.97)	90 (3.54)	95 (3.74)	M20 × 2.5	B8D
4	250lb–5KSE	48.5 (1.91)	60 (2.36)	42 (1.65)	69 (2.72)	74 (2.91)	1/2–20UNF	H8C
5	5klb–10klb	70 (2.76)	80 (3.15)	50 (1.97)	90 (3.54)	95 (3.74)	3/4–16UNF	H8C



HJ-8-213

Alloy steel,assembled with:H8C,B8D.HM8C,BM8D





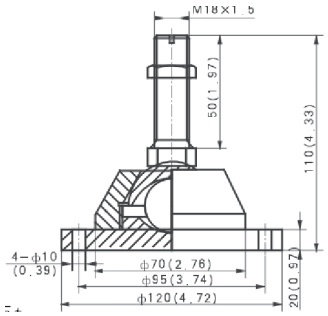
Capacity	Part number
0.5t–2t	HJ–8–213–0.5/2t

Short description

Easy installation, adjustable height, automatically centralized inside, good ability of anti–side loading. Mainly used for platfrom scales, floor scales and other electronic weighing devices.

HJ-8-216

Alloy steel,assembled with:H8C,B8D



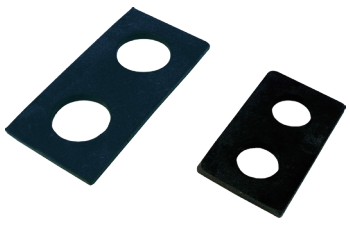
Capacity	Part number
2.5t–5t	HJ–8–216–2.5/5t

Short description

Easy installation, automatically centralized inside, good ability of anti–side loading. Mainly used for platfrom scales, floor scales and other electronic weighing devices.

HD-8-301

Alloy steel,assembled with:H8C,B8D.HM8C,BM8D



Capacity	Part number
0.5t–2t	HD–8–301–0.5/2t
2.5t–5t	HD–8–301–2.5/5t
250lb–5KSE	HD–8–301–250lb/5KSE
5klb–10klb	HD–8–301–5/10K

Short description

Mainly used for platfrom scales, floor scales and other electronic weighing devices.

Dimension / Capacity	L	L1	L2	W	D
0.5t–2t (250lb–5KSE)	54 (2.13)	13 (0.51)	25.4 (1.0)	32 (1.26)	14 (0.55)
2.5t–5t (5klb–10klb)	76 (2.99)	19 (0.75)	38 (1.50)	38 (1.50)	20 (0.79)

