HM8C



- Nickel plated alloy steel IP68 shear beam load cell
- Hermetically sealed
- Suitable for electronic platform scales, hopper scales
- High accuracy

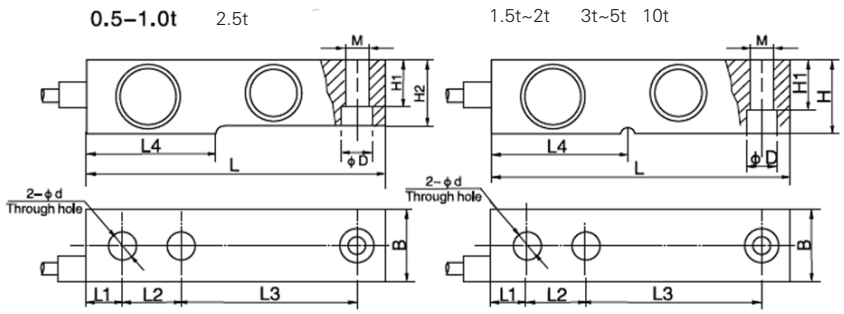
Available models

Capacity	Accuracy	Full article description
500kg	C3 Excluded from OIML	HM8C–C3–500kg–4B
1t	C3 Excluded from OIML	HM8C–C3–1t–4B
1.5t	C3 Excluded from OIML	HM8C–C3–1.5t–4B
2t	C3 Excluded from OIML	HM8C–C3–2t–4B
3t	C3 Excluded from OIML	HM8C–C3–3t–4B
5t	C3 Excluded from OIML	HM8C–C3–5t–4B
10t	C3 Excluded from OIML	HM8C–C3–10t–4B

Specification

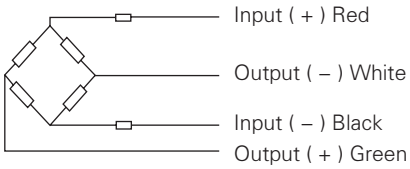
Accuracy class		C3		
Output sensitivity (= FS)	mV/V	2.0 ± 0.004		
Maximum capacity (E_{max})	t	0.5/1/1.5/2/3/5/10		
Maximum number of load cell intervals (nLC)		3000		
Ratio of minimum LC verification interval Y = E_{max} / v_{min}		10000		
Combined error	%FS	± 0.0230		
Minimum dead load	%FS	0%		
Safe overload	%FS	150 %		
Ultimate overload	%FS	300 %		
Zero balance	%FS	± 1.5		
Excitation, recommended voltage	V	5 ~ 12(DC)		
Excitation maximum	V	18(DC)		
Input resistance	Ω	350 ± 3.5		
Output resistance	Ω	351 ± 2.0		
Insulation resistance	MΩ	⩾ 5000 (50VDC)		
Compensated temperature	℃	–10 ~+40		
Operating temperature	℃	–35 ~ +65		
Storage temperature	℃	–40 ~ +70		
Element material		Nickel plated alloy steel		
Ingress protection (acc. to EN 60529)		IP68		
Recommended torque on fixation	N.m	M12: 100	M18:300	M24:750
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73℃	II3G Ex nL IIC T4

Dimensions in mm



Dimension / Capacity(t)	L	L1	L2	L3	L4	H	H1	H2	B	ΦD	Φd	M
0.5	130 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	53.7 (2.11)	31.8 (1.25)	15.8 (0.62)	26 (1.02)	31.8 (1.25)	13.5 (0.53)	13.5 (0.53)	M12
1.0	130 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	53.7 (2.11)	31.8 (1.25)	15.8 (0.62)	28 (1.1)	31.8 (1.25)	13.5 (0.53)	13.5 (0.53)	M12
1.5–2	130 (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)	13.5 (0.53)	13.5 (0.53)	M12
2.5	171.5 (6.75)	19.1 (0.75)	38.1 (1.5)	95.3 (3.75)	76.2 (3.0)	38.1 (1.5)	18.8 (0.74)	34 (1.34)	38.1 (1.5)	19.8 (0.78)	19.8 (0.78)	M18
3–5	171.5 (6.75)	19.1 (0.75)	38.1 (1.5)	95.3 (3.75)	77.2 (3.04)	38.1 (1.5)	18.8 (0.74)	–	38.1 (1.5)	19.8 (0.78)	19.8 (0.78)	M18
10	222.3 (8.75)	25.4 (1.0)	50.8 (2.0)	120.3 (4.74)	101.6 (4.0)	50.8 (2.0)	25.4 (1.0)	–	50.8 (2.0)	26 (1.02)	26 (1.02)	M24

Wiring

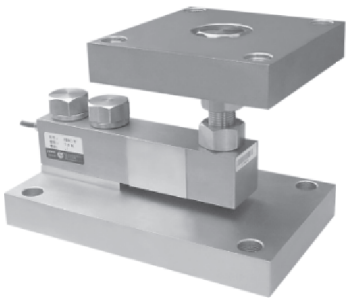


- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm.
- Standard cable length for 500kg –2t:4m and for 3t – 10t: 6m.
- Shield not connected to element.

Accessories

HM-8-402

Alloy steel,assembled with:H8C,B8D.

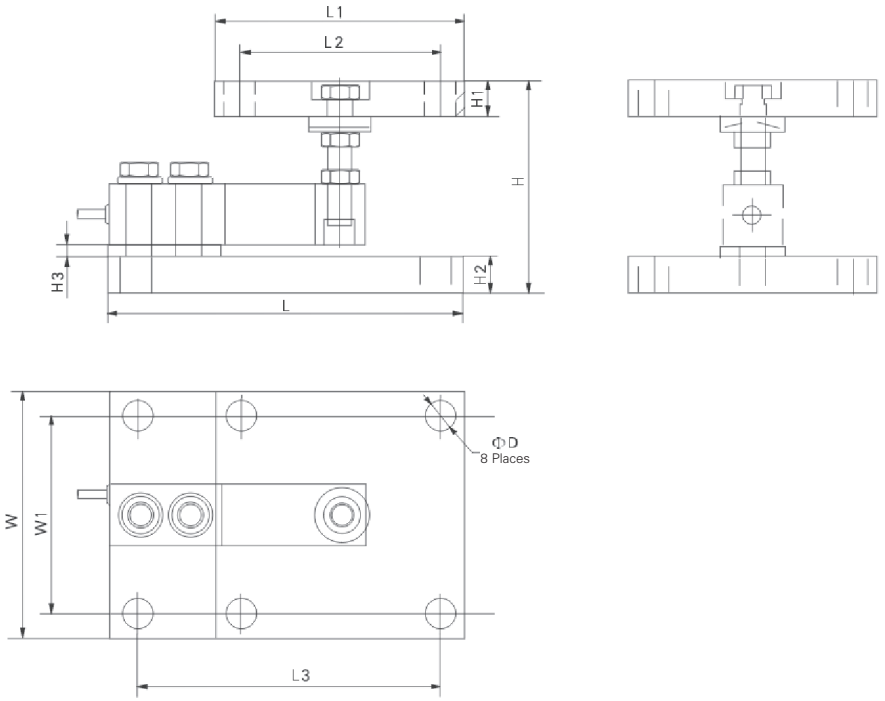


Capacity	Capacity
0.5t–2t	HM–8–402–0.5/2t
2.5t–5t	HM–8–402–2.5/5t
250lb–5KSE	HM–8–402–250lb/5KSE
5klb–10klb	HM–8–402–5/10K

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 (250lb–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

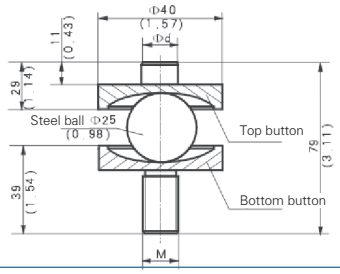


Short description

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

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



HY-8-105

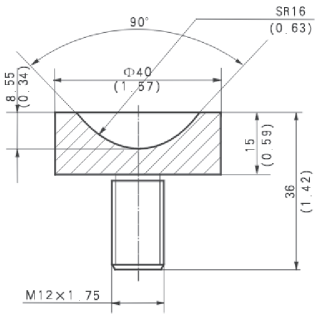
Alloy steel,assembled with:H8C,B8D,HM8C,BM8D



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

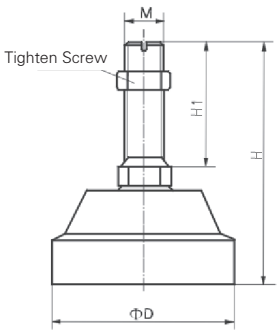


Short description

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

Dimension / Capacity	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				3/4–16UNF
10t	86 (3.39)	112 (4.41)	50 (1.97)	M24×12
15klb–20klb				1–12UNF
(0.5t–2t)–M1	60 (2.36)	92 (3.62)	50 (1.97)	M16×1.5
(2.5t–5t)–M1	60 (2.36)	92 (3.62)	50 (1.97)	M18×1.5(Only for H8C)



HJ-8-203

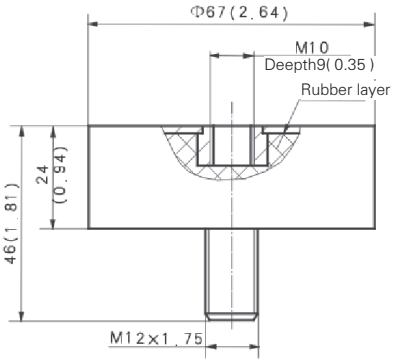
Alloy steel,assembled with:H8C,B8D,HM8C,BM8D



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

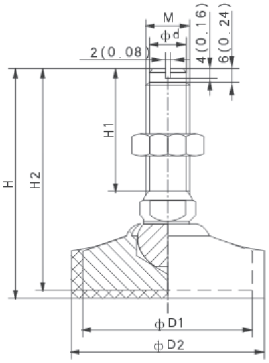


Short description

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

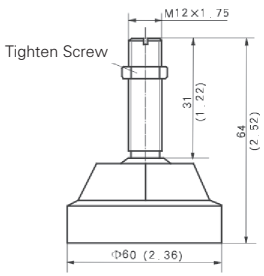
Number	Capacity	D1	D2	H1	H2	H	M	Assembled Products:
1	0.5–2t	48.5 (1.91)	60 (2.36)	42 (1.65)	69 (2.72)	74 (2.91)	M12×1.75	H8C
2	2.5–5t	70 (2.76)	80 (3.15)	50 (1.97)	90 (3.54)	95 (3.74)	M18×1.5	H8C
3	2.5–5t	70 (2.76)	80 (3.15)	50 (1.97)	90 (3.54)	95 (3.74)	M20×2.5	B8D
4	250lb–5KSE	48.5 (1.91)	60 (2.36)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





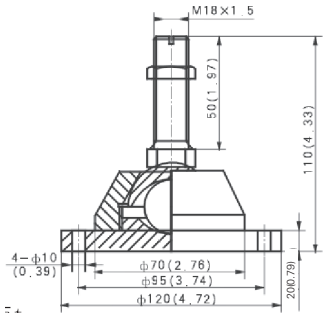
Capacity	Part number
0.5t–2t	HJ–8–213–0.5/2t

Short description

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

HJ-8-216

Alloy steel,assembled with:H8C,B8D



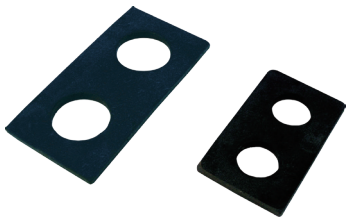
Capacity	Part number
2.5t–5t	HJ–8–216–2.5/5t

Short description

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

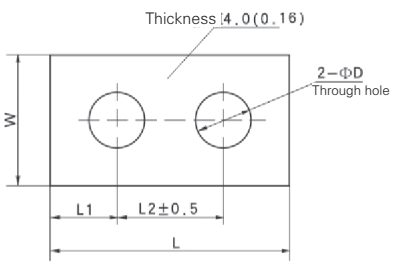
HD-8-301

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

Capacity \ Dimension	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)



Short description

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