HM8



- Nickel plated alloy steel IP68 shear beam load cell
- Hermetically sealed
- Suitable for truck, track, hopper and other electronic weighing devices

test certificate no. TC8103 Revision 0
C of C no. R60/2000–NL1–12.14

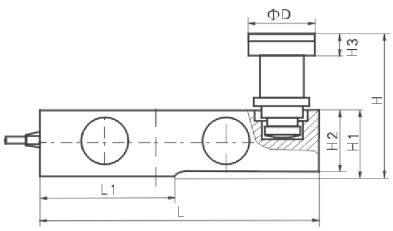
Available models

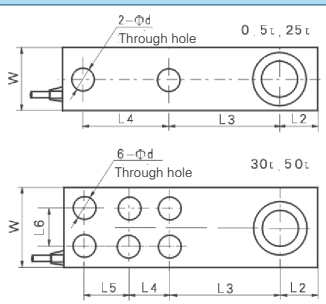
Capacity	Accuracy	Full article description
1t	C3 Excluded from OIML	HM8–C3–1t–6.5B6
2t	C3 Excluded from OIML	HM8–C3–2t–6.5B6
2.5t	C3 Excluded from OIML	HM8–C3–2.5t–6.5B6
3t	C3 Excluded from OIML	HM8–C3–3t–6.5B6
5t	C3	HM8–C3–5t–6.5B6
10t	C3	HM8–C3–10t–6.5B6
15t	C3	HM8–C3–15t–6.5B6
20t	C3	HM8–C3–20t–6.5B6
25t	C3 Excluded from OIML	HM8–C3–25t–6.5B6
30t	C3 Excluded from OIML	HM8–C3–30t–6.5B6

Specification

Accuracy class		C3	OIML R60 C3
Output sensitivity (= FS)	mV/V	2.0 ± 0.002	
Maximum capacity (E_{max})	t	1/ 2/2.5/3/30	5/10/15/20/25
Maximum number of load cell intervals (nLC)		3000	
Ratio of minimum LC verification interval Y = E_{max} / v_{min}		10000	15000
Combined error	%FS	± 0.020	
Minimum dead load	%FS	0%	
Safe overload	%FS	150 %	
Ultimate overload	%FS	300 %	
Zero balance	%FS	± 1.0	
Excitation, recommended voltage	V	5 ~ 12(DC)	
Excitation maximum	V	18(DC)	
Input resistance	Ω	400 ± 5	
Output resistance	Ω	352 ± 3.0	
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 M14:120 M20:500 M27:1075 M33:1975	
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73℃ II3G Ex nL IIC T4

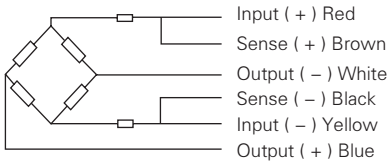
Dimensions in mm





Dimension / Capacity	H	H1	H2	H3	ΦD	Φd	W	L	L1	L2	L3	L4	L5	L6
1–2t	57.9 (2.28)	43 (1.69)	37 (1.47)	5 (0.2)	35 (1.38)	13 (0.51)	37 (1.47)	203 (7.99)	95 (3.74)	22 (0.87)	98 (3.86)	64 (2.52)	/	/
2.5 t	57.9 (2.28)	43 (1.69)	37 (1.47)	5 (0.2)	35 (1.38)	15 (0.59)	37 (1.47)	203 (7.99)	95 (3.74)	22 (0.87)	98 (3.86)	64 (2.52)	/	/
3t	62.9 (2.48)	43 (1.69)	37 (1.47)	5 (0.2)	35 (1.38)	15 (0.59)	37 (1.47)	203 (7.99)	95 (3.74)	22 (0.87)	98 (3.86)	64 (2.52)	/	/
5t	78.7 (3.1)	52 (2.05)	48 (1.89)	8 (0.31)	42 (1.65)	21 (0.83)	48 (1.89)	235 (9.25)	110 (4.33)	22 (0.87)	124 (4.88)	66 (2.6)	/	/
10t,15t	127.7 (5.03)	67 (2.64)	60 (2.36)	12 (0.47)	57 (2.24)	28 (1.10)	60 (2.36)	279 (10.98)	133 (5.24)	32 (1.26)	140 (5.51)	82 (3.32)	/	/
20t,25t	143.5 (5.65)	82.5 (3.25)	70 (2.76)	12 (0.47)	70 (2.76)	34 (1.34)	70 (2.76)	318 (12.52)	153 (6.02)	38 (1.5)	159 (6.26)	89 (3.5)	/	/
30t	174(6.85)	115 (4.53)	90 (3.54)	18 (0.71)	70 (2.76)	26 (1.02)	96 (3.78)	374 (14.72)	189 (7.44)	44.5 (1..75)	181 (7.13)	76 (2.99)	51 (2.01)	46 (1.81)

Wiring



- Shielded, 6 conductor cable.
- Cable diameter: Φ6.2mm.
- Standard cable length: 6.5m.
- Shield not connected to element.

Accessories

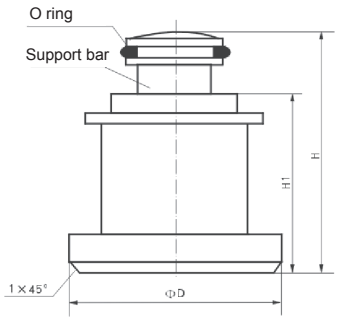
HY-8-101



Alloy steel,assembled with:H8,HM8

Capacity	Part number
0.5t–3t	HY–8–101–0.5/3t
5t	HY–8–101–5t
10t–15t	HY–8–101–10/15t
20t–25t	HY–8–101–20/25t
30t	HY–8–101–30t
50t	HY–8–101–50t

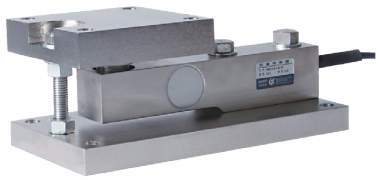
Dimension / Capacity	ΦD	H	H1
0.5t–3t	35(1.38)	44.9(1.77)	24.9(0.98)
5t	42(1.65)	56.7(2.23)	34.7(1.37)
10t–15t	57(2.24)	80.7(3.18)	66.7(2.63)
20t–25t	70(2.76)	85(3.35)	67(2.64)
30t	70(2.76)	91(3.58)	70(2.76)
50t	85(3.35)	102(4.04)	82(3.23)



Short description

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

HM-8-401



Alloy steel,assembled with:H8,HM8

Short description

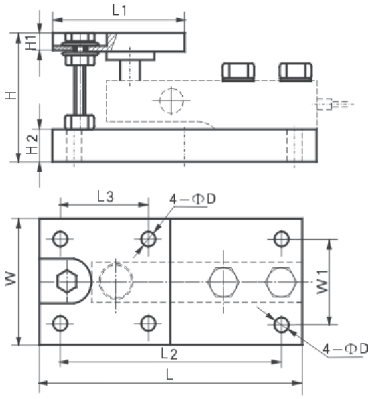
- Compact construction, easy installation
- With anti–reversal ability
- With anti–overloading ability
- With self–aligning ability
- Using under heavy static load or slight dynamic load

Capacity	Part number
0.5t–2t	HM–8–401–0.5/2t
2.5t–3t	HM–8–401–2.5t/3t
5t	HM–8–401–5t
10t–15t	HM–8–401–10/15t
20t	HM–8–401–20t

Optional table		
Part number	Designation	Cutline
HM–8–401–1	Fixed	◯
HM–8–401–2	Half–floating	⟷
HM–8–401–3	Floating	⊕

Specifications

Capacity	t	0.5–3	5	10–15	20
Ultimate load	%FS	150	150	150	150
Max.Horizontal displacement	mm	±2	±2.5	±4	±4
Max.anti–rotation	kN	3	10	30	50
Material	Alloy steel				



Capacity / Dimension	0.5t~3t	5t	10t~15t	20t
L	240 (9.45)	300 (11.8)	355.6 (14.0)	406.4 (16.0)
L1	114.3 (4.5)	152.4 (6.0)	203.2 (8.0)	228.6 (9.0)
L2	214.6 (8.45)	249.2 (9.81)	304.8 (12.0)	342.9 (13.5)
L3	88.9 (3.5)	101.6 (4.0)	152.4 (6.0)	165.1 (6.5)
H	104.8 (4.13)	152.4 (6.0)	190.5 (7.5)	228.6 (9.0)
H1	25.4 (1.0)	42 (1.65)	44.5 (1.75)	50.8 (2.0)
H2	25.4 (1.0)	42 (1.65)	44.5 (1.75)	50.8 (2.0)
W	114.3 (4.50)	152.4 (6.0)	203.2 (8.0)	228.6 (9.0)
W1	88.9 (3.5)	101.6 (4.0)	152.4 (6.0)	165.1 (6.5)
D	11 (0.43)	17.5 (0.69)	20.6 (0.81)	25.5 (1.0)