



The right solution ...

... load cells, mounting aids and accessories



HBM – weighing technology from sensor to software

For more than 50 years, HBM has been one of the global leaders supplying components for industrial weighing technology. Countless users already place their trust in the precision and reliability of high-quality HBM products.

We provide sophisticated and innovative measurement technology for your application: strain gage technology, load cells and accessories, electronics and evaluating software, as well as a full program of services to ensure the safety and availability of your weighing components.



HBM load cells ...

trusted a million times over – throughout the world

...in scale manufacturing

HBM is a leading global supplier of weighing components for industrial weighing machine and scale construction.

We provide load cells, electronics and weighing accessories for ...

- ___ road vehicle scales
- ___ platform scales
- ___ counter scales
- ___ postal scales
- ___ counting scales

...in plant engineering and process weighing

Plant safety, product quality and reproducibility are important factors to consider for every tank and batching scale. HBM components meet the most stringent demands – anywhere in the world.

We provide load cells, weighing modules, electronics and software for ...

- ___ level monitoring
- ___ tank and batching weighers
- ___ weighing of additives and silos

...in dynamic weighing

Digital HBM load cells provide the control functions for sorting, filling and batching processes. Our digital electronics also make analog load cells fit for dynamic weighing.

Digital HBM weighing technology for ...

- ___ checkweighers
- ___ gravimetric filling machines
- ___ multi-station combination weighers
- ___ sorting plants
- ___ dynamic postal scales

...in your special application

As your capable and reliable partner, we support you with innovative, individually customized solutions. Fast prototyping enables us to satisfy your weighing technology needs in the shortest possible time.

For example, we develop and manufacture specific components for...

- ___ weighing hospital patients
- ___ weighing garbage
- ___ weighing materials, power shovels
- ___ etc.

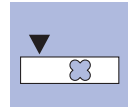
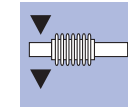
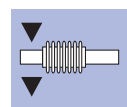
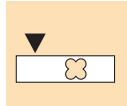
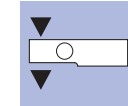
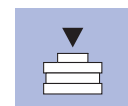
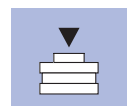
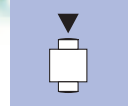
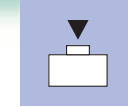
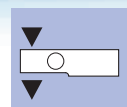
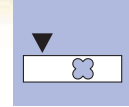
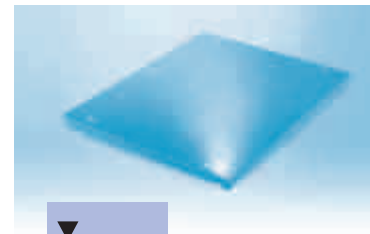
the right HBM product ...

... for your application

The right solution – for your success

This quick overview shows you the load cells that we recommend for your application.

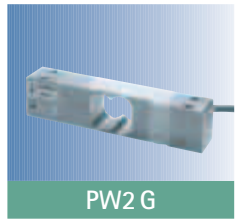
In the pages that follow, you will be able to compare the specific data of the individual load cells.



Application	Scale types	HBM load cells and accessories		
		1.5 kg ... 600 kg	600 kg ... 15 t	15 t ... 1200 t
	Vehicle scales Weighbridges		HLC, RTN Pendulum bearing	C16, RTN, C16i, RTNi Thrust pieces
	Platform scales with several load cells	HLC, Z6 Loading foot	HLC, RTN, Z6 Loading foot, Pendulum bearing	C16, RTN Pendulum bearing, Thrust pieces
	Platform scales with one load cell	PW2, PW4, PW6, PWS, PW10, PW12B, PW15, PW16, SP4	PW16	
	Belt weighers	PW10, PWS, PW12B, Z6	Z6, HLC	
	Hand-elevating weighers	HLC	HLC	
	Overhead track scales	HLC, PW12B	HLC	
	Dynamic weighers Packaging machinery, checkweighers, postal scales, filling plants, multi-station combination weighers	FIT®, PW18i, LC + AD104, Z6		
	Counter scales (max. 400x400 mm)	PW6, PW2, SP4		

Application	Scale types	HBM load cells and accessories		
		1.5 kg ... 600 kg	600 kg ... 15 t	15 t ... 1200 t
	Mobile scales		HLC, SSC	C16, RTN
	Tank weigher (level monitoring)	C2, HLC, Z6 Weighing modules, Pendulum bearing, Elastomer bearing	HLC, RTN Weighing modules, Pendulum bearing, Elastomer bearing	C16, RTN Weighing modules, Pendulum bearing, Elastomer bearing
	Weighing suspended tanks (level monitoring)	RSC, U2A Knuckle eyes	RSC, U2A Knuckle eyes	U2A Knuckle eyes
	Weighing upright tanks/silos (level monitoring)	HLC, Z6 Weighing modules	HLC, RTN, Z6, ESM Weighing modules	C16, RTN Weighing modules
	Weighing horizontal tanks (level monitoring)	HLC, Z6 Weighing modules	HLC, RTN, Z6, ESM Weighing modules	C16, RTN Weighing modules
	Batching weighers	HLC, PW2, SP4, Z6 Weighing modules	HLC, RTN, Z6 Weighing modules	C16, RTN Weighing modules
	Weighing eccentric tanks Weighing garbage	SSC	SSC	

the right load cell ... for platform scales



Load cell	Design	Output	Accuracy class	Approvals	Max. capacity 0.3 ... 9 kg	10 ... 99 kg	100 ... 660 kg	Degree of protection	Material	Special characteristics	Max. platform size		
DF2 S		analog	0.05%; 0.03%;		1 3 5	10 15 20 30		IP64	aluminum	particularly flat	150x150 mm		
PW2 A			C3	GOS	7,2	12 18 36 72		IP65		standard type	380x380 mm		
PW2 G			C3	GOS	7,2	12 18 36 72		IP67		6-wire, shielded			
SP4			C3	GOS	1 3 5 7	10 15 20 30 50 75	100 200	IP65		interchangeable with "1024", 6-wire	600x600 mm		
PW4 KR			C3	¹⁾ GOS	0,3 0,5 2 3					for small capacities	200x200 mm		
PW6 KR			C3	GOS	0.05%	3 5	10 15 20 30 40			IP67	interchangeable with "C1022", particularly flat, wide weighing range	300x300 mm	
PW10			C3	GOS			50	100 150 200 250			interchangeable with "1241", 6-wire, shielded	600x500 mm	
PW12 B			C3	GOS			50 75	100 150 200 250 300 500 635			interchangeable with "1250", 6-wire, shielded	800x800 mm	
PW16			C3	GOS			30 50 75	100 150 200 250 300 500 660			interchangeable with "1241", 6-wire, shielded	600x600 mm	
PWS			C3	GOS		7	10 15 30 60	100 150 300		IP65	stainless steel	robust	
PW15			C3	GOS		7,5	15 20 30 50 75	100 150 200		IP67		interchangeable with "1241", 6-wire, shielded, EMC-tested	500x400 mm
PW18 C3			C3	¹⁾		5	10 20 50 75			IP67	aluminum	for static weighing	600x500 mm
PW18 G3/H1			C3	¹⁾		5	10 20 50 75			IP66	stainless steel enclosure		
PW18i			digital	C4		5	10 20 50 75			IP67	aluminum	for dynamic weighing	600x500 mm
FIT®		C4			5	10 20 50 75		IP66	stainless steel enclosure				

the right load cell ... for industrial applications



Load cell	Design	Output	Accuracy class	Approvals	Max. capacity			Degree of protection	Material	Special characteristics
					1 ... 99 kg	100 ... 999 kg	1 ... 470 t			
Z6		analog	D1, C3, C4, C6	GOS	5 10 20 50	100 200 500	1	IP 68	stainless steel	EMC-tested
C16A			D1, C3, C4, C5	GOS			15 20 30 40 60 100 200			EMC-tested, overvoltage protection option
C16i		digital	D1, C3, C4	GOS			20 30 40 60	IP 68 (IP 69K)	stainless steel	EMC-tested, overvoltage protection option
C2		analog	0.1 %	GOS	50	100 200 500	1 2 5 10 20 50	IP 67	stainless steel	EMC-tested
RTN			0.05%, C3, C4, C5, MI 7.5	GOS			1 2.2 4.7 10 15 22 33 47 68 100 150 220 330 470			
RTNi		digital	C3	GOS			33 47 68	IP 68	stainless steel	EMC-tested
U2A		analog	0.1 %; 0.2 %, D1		50	100 200 500	1 2 5 10 20	IP 67	stainless steel	EMC-tested
HLC ²⁾			D1, C3	GOS		220 550	1.1 1.76 2 2.2 4.4 10			
RSC			D1, C3	GOS	50	100 200 500	1 2 5			
SSC			D1			550 880				
ESM			1 %				1 ¹⁾ 5 10 ¹⁾			

complies with ATEX directive 94/9EC ¹⁾ available soon ²⁾ more types similar to HLC are available

everything you need ... the accessories program

Intelligent accessories from the expert

There is a vast range of standardized mounting aids and accessories available for your HBM load cells. The mounting accessories are consistently matched to each type of load cell and take on important structural functions for the weigher.

So the load cells are fitted expertly, quickly and cost-effectively.

You can rely on us to be your partner

Play it safe: as your partner for weighing technology, we can provide comprehensive services covering all aspects of weighing technology. With fast prototyping, we develop your specific load cell in the shortest possible time.

services

- ___ HBM weighing technology experts are always close at hand, anywhere in the world
- ___ Comprehensive product information and support at www.hbm.com
- ___ Specific products by fast prototyping
- ___ On-site installation and maintenance
- ___ Calibration service
- ___ Seminars and training sessions
- ___ 24-hour hotline






Strain gage production:
We master the basic technology



There is no quicker way:
Fast prototyping the load cell for your specific application



We set the standards:
HBM calibration laboratories

Mounting aids...											
... for load cells											
Z6		•	•	•	•	•	•	•			•
C16A/C16i	•						•		•		
C2	•	•	•								
RTN/RTNi		•	•				•		•		
U2A				•							
RSC				•							
HLC		•					•	•		•	•



Your partner for even more safety ...

when weighing bulk materials, silos and other tanks,
for level measurement and in batching processes

Weighing components:

- ___ stainless steel, hermetically sealed
- ___ overvoltage protection
- ___ operating temperatures up to 120°C (248° F)
- ___ ATEX 95-compliant (directive 94/9/EC)
- ___ 3 years guarantee



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measurement with confidence