

Analog single point load cells

Reliable and meeting the most demanding requirements



Solutions in weighing technology for your scales

Trusted a millionfold, worldwide

HBM – always the right solution for your application

We provide ...

...sophisticated and innovative weighing technology components specifically for your application:

- Standard single point load cells
- Single point load cells with numerous options for individual configuration
- Bus-capable electronics and amplifiers
- Software for configuration of measurement electronics, visualization and analysis of measurement signals

...safety with certification:

- High-precision load cells with valid national and international test certificates
- Different HBM load cells from the standard product program are available in IECEX-compliant versions for the various zones
- International approvals make HBM load cells easier and faster to use

...an extensive range of services from the world's leading weighing technology experts:

- HBM expertise available on any site anywhere in the world
- Individual consulting, installation and start-up
- Training and seminars



HBM single point load cells...

... the configurable system concept for diverse fields of weighing technology applications

HBM single point load cells – simple, fast and dependable:

- Swift availability thanks to wide range of standard products
- Quick to install thanks to off-center load compensation at the factory (per OIML R76)
- Extremely fast weighing speed thanks to the very high natural frequency
- Test certificates make planning quick and easy
- Different measuring body materials and protection classes suitable for your operating conditions
- Meets EMC guidelines (EN 45 501)
- Compatible mounting dimensions





Extended fields of application thanks to ...

- Choice of accuracy classes
- Various connection cable lengths
- Specially adapted parameters (e.g. aligned output)

Individual solutions ...

... for your specific weighing technology application

As your capable and reliable partner, we support you with innovative, individual customized solutions.

Fast prototyping enables HBM to meet your weighing technology needs in the shortest possible time.

We develop and manufacture your specific transducer ...

... in appropriate numbers and to meet your exact requirements, such as

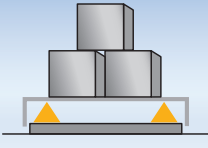
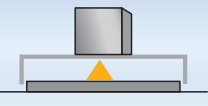
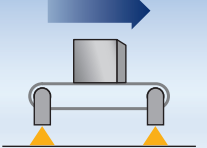
- With individual off-center load compensation
- Ready-made, in the required cable lengths
- In special transducer geometries

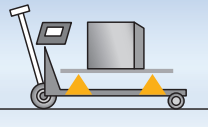
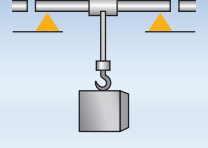
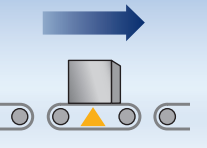


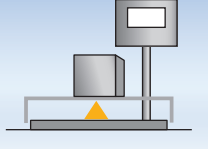
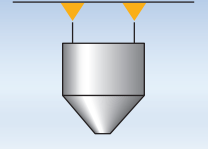
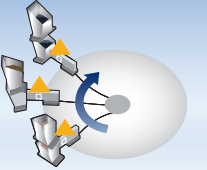
The right load cell for your application

The right solution – for your success

This quick overview helps you find the right HBM load cell for your application.

		
Platform scales with several load cells	Platform scales with one load cell	Conveyor scales
PW2C/D; PW6C/D; PW10A; PW12C; PW16A; PW15A; PW22; SP4	PW2C/D; PW6C/D; PW4M; PW10A; PW12C; PW15A; PW15AH; PW22; SP4	PW2D; PW10A; PW12C; PW22; PW15A; PW15AH

		
Hand-elevating weighers	Overhead track scales	Dynamic weighers
PW15A; SP4	PW12C; PW16A	PW2D; PW6D; PW22

		
Shop-counter scales	Suspended tank weighers	Multihead weighers
PW6C/D; PW2C/D; SP4	PW12C	PW22; PW25; PW25P; PW27; PW27P

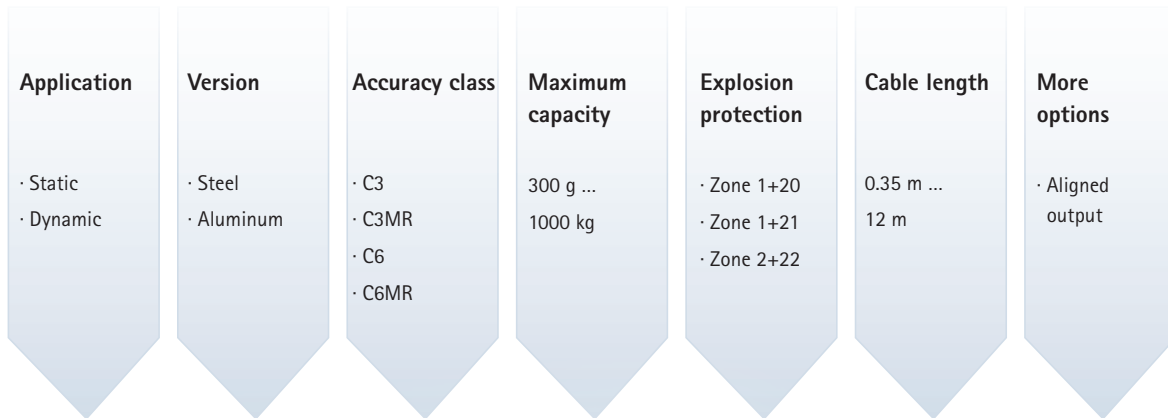
Go to the world of HBM weighing technology at:
www.hbm.com/weighing

The fastest route to your load cell

Choose the load cell you require from the numerous options

HBM single point load cells are available in many configurations, so they can always be adapted to meet your specific needs.

Go to www.hbm.com or talk to your HBM expert.



Individual load cell design
to meet your requirements

For more detailed information about optional single point load cell versions refer to the respective data sheets.

K-PW15A-... (Stainless steel), optional versions [!!!]
Order no. **K-PW15A**

Code	Option 1: Mechanical version
N	Standard

Code	Option 2: Accuracy
C3	C3 (OIML)
MR	C3-MR (OIML)

Code	Option 3: Capacity
7.5	7.5kg
15	15kg
20	20kg
30	30kg
50	50kg
75	75kg
100	100kg
150	150kg
200	200kg

HBM technology in detail

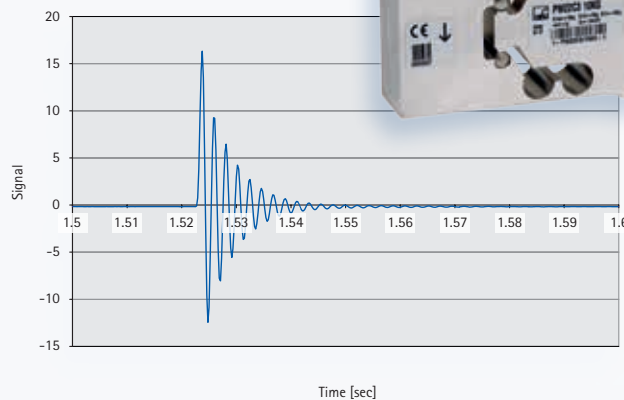
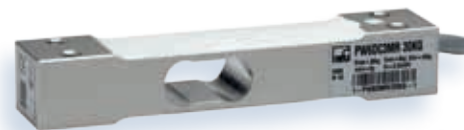
Benefit from the unique features available

HBM single point load cells have been designed such that their excellent mechanical and measurement properties can be optimally used in a wide range of applications – see for yourself...

Shortest weighing times

The ultra-low nominal (rated) load cell displacements produce extremely high natural frequencies. This enables very high weighing speeds to be achieved.

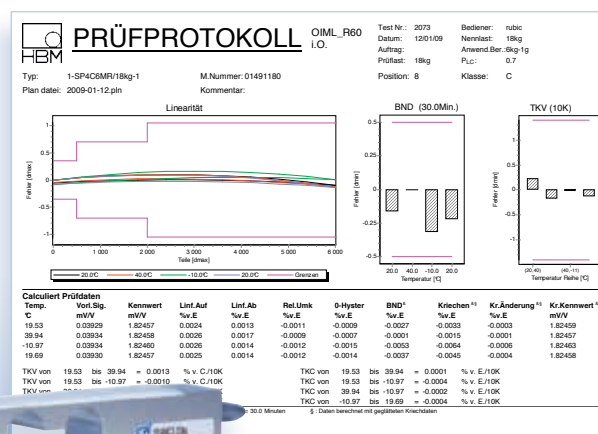
HBM's PW2D, PW6D and PW22 load cells have been optimized for this purpose and the transient response of the measurement signal is unique.



Highest accuracy

Some load cell types providing OIML C6 and C6MR accuracy classes can be produced in large quantities thanks to consistent research in the field of metal foil strain gauges and sensors.

PW2C, PW6C and SP4M load cells cover the measuring ranges from 0...7 kg through 0...72 kg.



Maximum resistance

In aggressive environments, HBM's PW15B, PW15AH and PW29 load cells ensure maximum service life, failsafe operation in harsh operating conditions such as in chemistry, pharmaceuticals and the food industry.

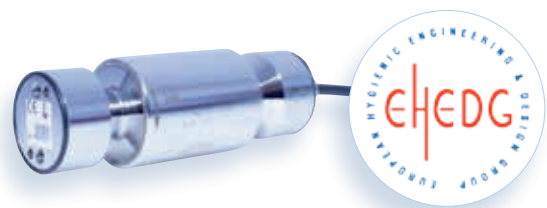
- Use in potentially explosive atmospheres (PW15B) (IECEX: Zone 1+21; Zone 1+20; Zone 2+22).
- IP68/IP69K degree of protection (PW15AH, PW29)
- Stainless steel



Aseptic production

Modern weighing technology can be easily integrated with aseptic or hygienic production processes using aseptic PW25 and PW27 load cells. Shorter cleaning times and reduced system down time increase production efficiency.

- Integrated, encapsulated overload stop
- Stainless steel housing providing IP68/IP69K protection
- 10 kg and 20 kg maximum capacity
- Easy to clean



All-rounders at an attractive price

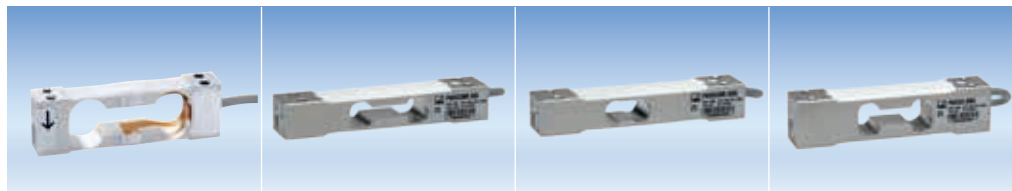
HBM has a huge variety of standardized load cell products – ultra-economical when a large number of pieces is required.

From development to production to the final quality check, all processes are optimized for quality without compromise.



Load cells for platform scales

Made for you in large quantities














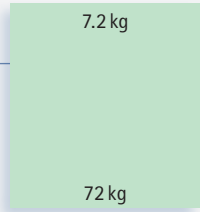

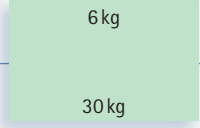
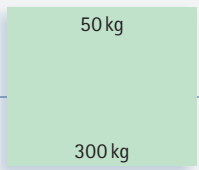
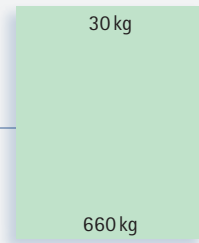

Load cell	PW4M...	PW6C	PW6D	PW2C
Accuracy class	C3	C3MR; C6	C3MR	C3MR; C6
Y value*	10000	15000	15000	18000
Degree of protection	IP65	IP67	IP67	IP67
Explosion protection	-	-	-	-
Material	Aluminum	Aluminum	Aluminum	Aluminum
Connector	Pancon CE100F26-4 at cable end	Pancon CE100F26-6 at cable end	Pancon CE100F26-6 at cable end	Pancon CE100F26-6 at cable end
Application	Static weighing tasks	Static weighing tasks	Static and dynamic weighing tasks	Static weighing tasks
Maximum capacity from ... to	0.3 kg 3 kg	3 kg	3 kg	7.2 kg
10 – 100 kg		40 kg	40 kg	72 kg
100 – 1000 kg				
Special feature	Low maximum capacity	High accuracy	High speed	High accuracy

*available up to the specified value depending on maximum capacity

Save costs – with safety and quality

From legal-for-trade operation to explosion protection – HBM's certified load cells offer maximum safety and reliability, anywhere in the world.

Save costs, minimize down time – with certified safety and quality from HBM.

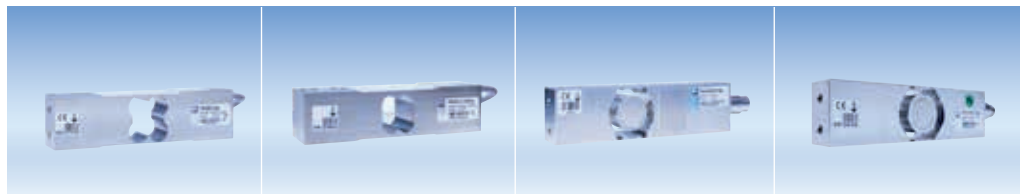
					
PW2D	SP4M	PW22	PW10A	PW16A	PW12C
C3MR	C3MR; C6	C3MR	C3MR; C4	C3MR	C3MR
14400	20000	15000	15000	15000	15000
IP67	IP68/IP69K	IP67	IP67	IP67	IP67
-					
Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Pancon CE100F26-6 at cable end	Pancon CE100F26-6 at cable end	Pancon CE100F26-6 at cable end	Pancon CE100F26-6 at cable end	Pancon CE100F26-6 at cable end	Pancon CE100F26-6 at cable end
Static and dynamic weighing tasks	Static weighing tasks	Static and dynamic weighing tasks	General weighing tasks with average maximum capacities	General weighing tasks with high maximum capacities	General weighing tasks with high maximum capacities
					
High speed	High accuracy	Integrated overload protection	Low profile; high maximum capacity	Wide maximum capacity range	Overload protection


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Load cells for platform scales

Consistently optimized for you








Load cell	PW15B	PWSE	PW15AH	PW15PH
Accuracy class	C3MR	C3MR	C3MR	C3MR
Y value*	15000	15000	10000	10000
Degree of protection	IP67	IP67	IP68/IP69K	IP68/IP69K
Explosion protection		-	-	-
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Connector	Pancon CE100F26-6 at cable end	Pancon CE100F26-6 at cable end	Pancon at cable end	Integrated M12 connector
Application	Rough ambient conditions	Rough ambient conditions	Extreme ambient conditions	Extreme ambient conditions
Maximum capacity from ... to				
0 – 10 kg	7.5 kg			
10 – 100 kg			10 kg 100 kg	10 kg 100 kg
100 – 1000 kg	200 kg	100 kg 750 kg		
Special feature	Rugged	Very rugged	Hermetically sealed	Integrated connector

*available up to the specified value depending on maximum capacity

C3 accuracy class is standard at HBM

Legal-for-trade load cells or transducers for general measurement tasks - HBM provides you with customized load cells.

					
PW25	PW25P	PW27	PW27P	PW29	PW29P
C3MR	C3MR	C3MR	C3MR	C3MR	C3MR
10000	10000	10000	10000	15000	15000
IP68/IP69K	IP68/IP69K	IP68/IP69K	IP68/IP69K	IP68/IP69K	IP68/IP69K
-	-	-	-	-	-
Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Pancon CE100F26-6 at cable end	Integrated M12 connector	Pancon CE100F26-6 at cable end "Hygienic cable"	Integrated M12 connector	Pancon CE100F26-6 at cable end	Integrated M12 connector
Extreme ambient conditions	Extreme ambient conditions	Aseptic/hygienic	Aseptic/hygienic	Extreme ambient conditions	Extreme ambient conditions
10 kg 20 kg	10 kg 20 kg	10 kg 20 kg	10 kg 20 kg		
				100 kg 1000 kg	100 kg 1000 kg
Easy to clean	Easy to clean	"Aseptic"	"Aseptic"	Hermetically sealed	Hermetically sealed

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