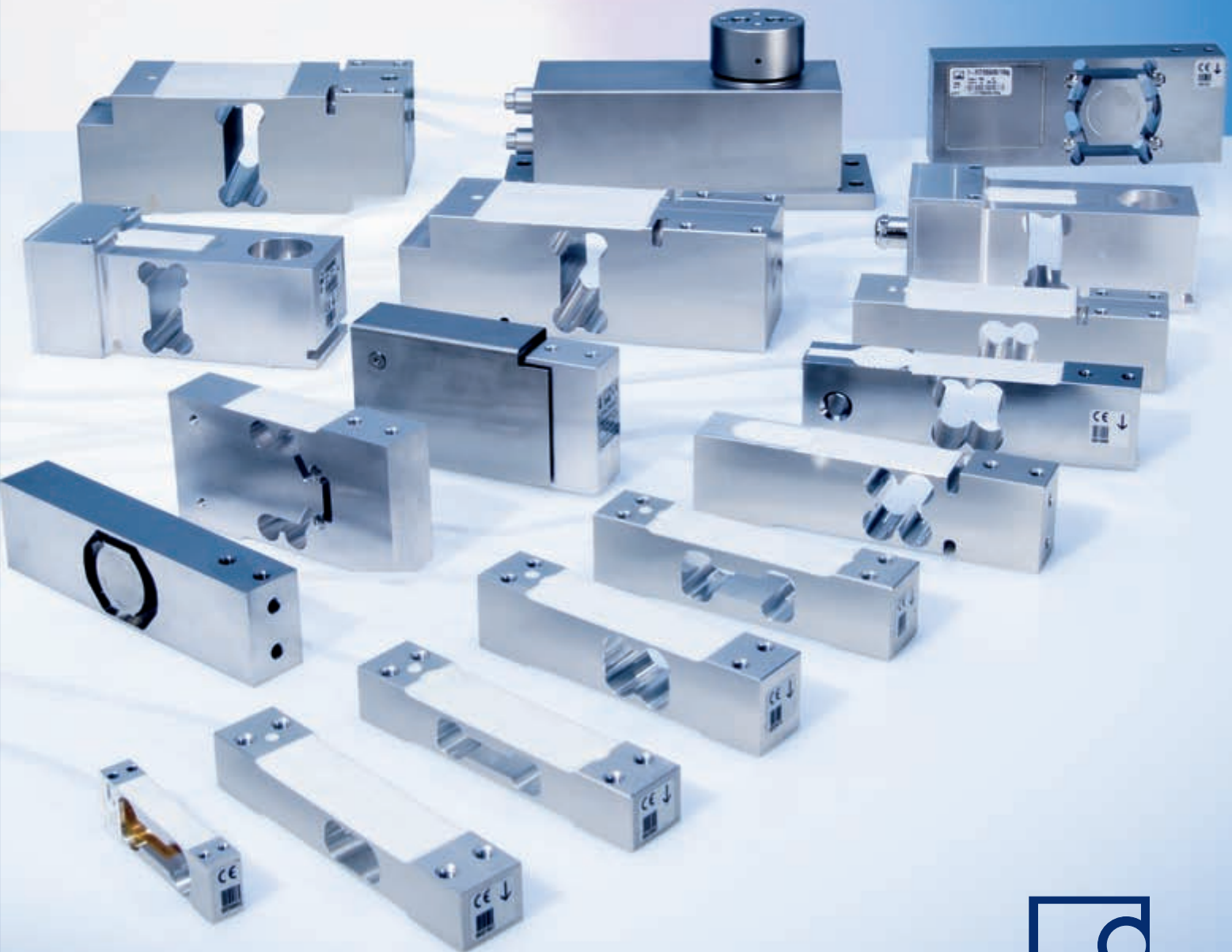




Reliable weighing technology for platform scales



Analog and digital single point load cells



Solutions in weighing technology for you ...trusted a millionfold, w



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 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 ATEX95-compliant versions for the various zones
- ___ International approvals make HBM load cells easier and faster to use: (NTEP, GOS, OIML...)

...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
- ___ Calibration service

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:

- ___ 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 directives (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)

ur scales orldwide



Digital systems...

Digital load cells and components from HBM offer you additional advantages

- ___ High-speed weighing, batching and filling
- ___ Good reproducibility of setting value (zero signal, full scale value)
- ___ Easy integration into plant and process sequences; all current interfaces are available
- ___ No mechanical damping elements required
- ___ Individual communication with each individual load cell in the process



Individual solutions...

... for your specific weighing technology application

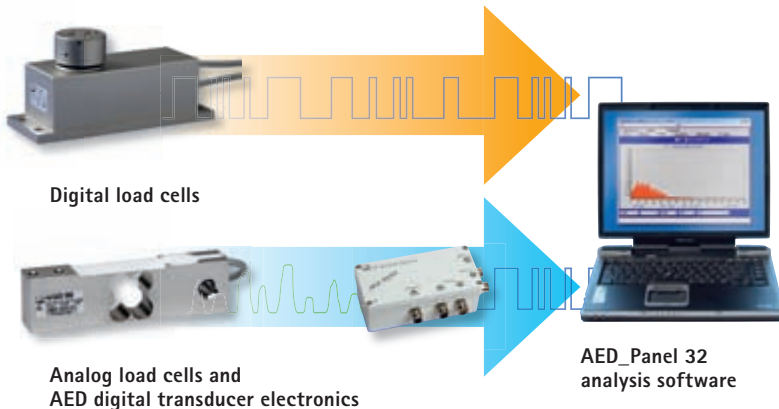
As your capable and reliable partner, we support you with innovative, individual customized solutions.

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



Digital load cells

Analog load cells and AED digital transducer electronics

AED_Panel 32 analysis software

GOS

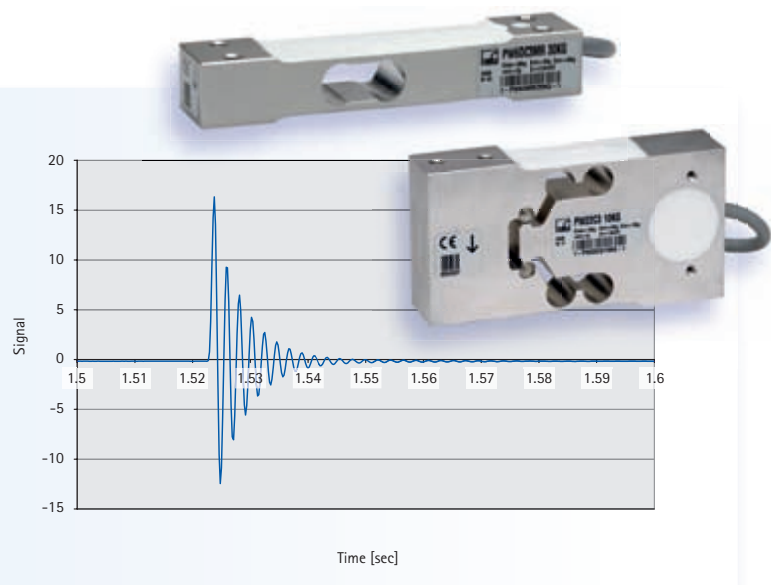
HBM technology in detail ... benefit from the unique fe

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 PW 2D, PW 6D and PW22 load cells have been optimized for this purpose and the transient response of the measurement signal is unique.



Maximum resistance ...

... in aggressive environments. HBM's FIT/1, FIT/4, FIT/5, PW15A and PW15AH load cells ensure maximum service life, failsafe operation and hygiene in harsh operating conditions, such as in chemistry, pharmaceuticals and the food industry.

- ___ Use in potentially explosive atmospheres (ATEX 95: Zone 1+21; Zone 1+20; Zone 2+22).
- ___ IP69K degree of protection (PW15AH)
- ___ Stainless steel



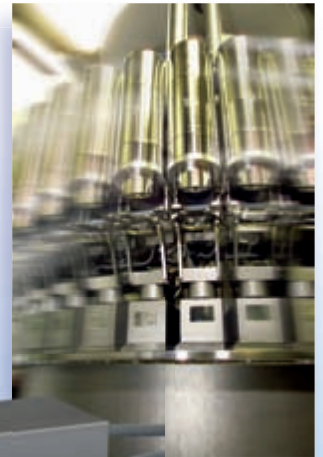
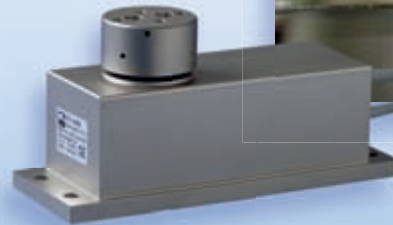
atures available

FIT® for high-speed weighing, batching and filling...

The range of performance offered by digital single point load cells extends the plant engineering applications.

In addition to all the relevant functions for conventional weighing processes, these intelligent load cells also provide:

- ___ Control functions for sorting, filling and batching processes
- ___ RS-232, RS 485 4-wire, CANOpen or DeviceNet interfaces
- ___ Filtered, scaled and digitized output signal
- ___ Fast sampling rate: up to 1,200 measurements per second



Space-saving scale design...

By integrating the weighing electronics in various type series, it is possible to save space when designing weighing systems.

HBM load cells also provide...

- ___ Integrated overload protection (PW20i, PW22)
- ___ Installation compatibility with many other manufacturers' products



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 through production and the final quality check, all processes are optimized for quality without compromise.

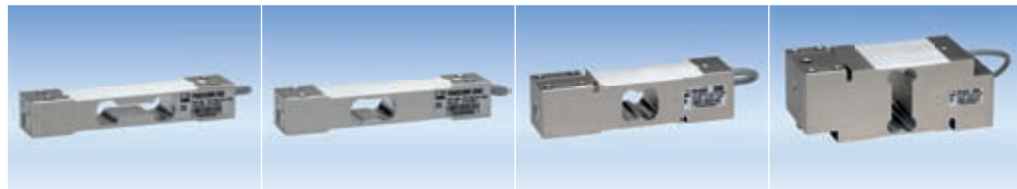


Load cells for platform scales consistently optimized for you



Load cell	PW18C3 ...	PW18C3/H1 ...	PW18C3/H2 ...	FIT/0
Design				
Output	Analog	Analog	Analog	Digital
Accuracy class	C3	C3	C3	C3
Approvals				
Degree of protection	IP67	IP55	IP66	IP67
Material	Measuring element: Aluminum	Meas. element: Aluminum Housing: Stainless steel	Meas. element: Aluminum Housing: Stainless steel	Aluminum
Application	<ul style="list-style-type: none"> • Static and dynamic weighing 	<ul style="list-style-type: none"> • Static and dynamic weighing 	<ul style="list-style-type: none"> • Static and dynamic weighing • Special pressure compensation possible 	<ul style="list-style-type: none"> • Digital load cells for static and dynamic weighing
Maximum capacity from ... to				
0 – 10 kg				
10 – 100 kg				
100 – 660 kg				

Load cells for platform scales readily available in large quantities


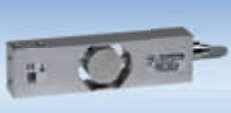






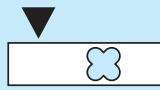
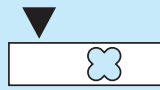
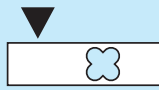
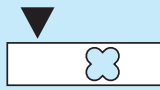






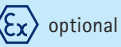






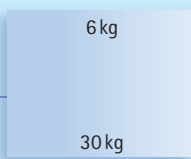
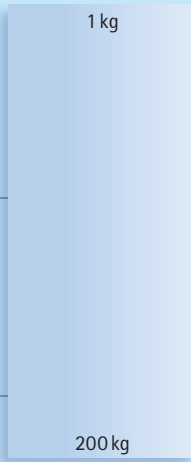
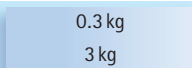


Load cell	PW6C...	PW6D...	PW10A...	PW12C...
Design				
Output	Analog	Analog	Analog	Analog
Accuracy class	C3-MR (C3)	C3	C3 (C3-MR)	C3 (C3-MR)
Approvals				
Explosion protection			optional	optional
Degree of protection	IP67	IP67	IP67	IP67
Material	Aluminum	Aluminum	Aluminum	Aluminum
Application	<ul style="list-style-type: none"> • Static weighing tasks 	<ul style="list-style-type: none"> • Static and dynamic weighing tasks 	<ul style="list-style-type: none"> • General weighing tasks with average maximum capacities 	<ul style="list-style-type: none"> • General weighing tasks with high maximum capacities
Maximum capacity from ... to				
0 – 10 kg				
10 – 100 kg				
100 – 750 kg				

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 downtime – with certified safety and quality from HBM.

					
PW15A ...	PW15AH ...	PW16A ...	PW22 ...	SP4 ...	PW4M ...
					
Analog	Analog	Analog	Analog	Analog	Analog
C3-MR (C3)	C3 (C3-MR)	C3 (C3-MR)	C3-MR (C3)	C3 (C3-MR)	C3 (C3-MR)
					
 optional	 optional	 optional	 optional		
IP 67	IP68/IP69K	IP 67	IP 67	IP 65	IP 65
Stainless steel	Stainless steel, hermetically sealed	Aluminum	Aluminum	Aluminum	Aluminum
• Rough ambient conditions	• Extreme ambient conditions	• General weighing tasks with high maximum capacities	• Static and dynamic weighing tasks	• General weighing tasks	• General weighing tasks with low maximum capacities
					

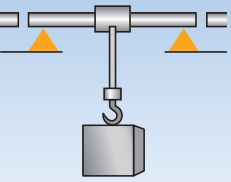




Open up the world of HBM weighing technology at:
www.hbm.com/weighing

The right load cell for your application

The right solution – for your success

Digital or analog? This quick overview of HBM load cells helps you make the right choice.

 <p>Platform scales with several load cells</p> <p>PW2C/D; PW6C/D; PW10A; PW12C; PW16A; PW15A; PW22; SP4</p> <p>-</p>	 <p>Platform scales with one load cell</p> <p>PW2C/D; PW6C/D; PW4M; PW10A; PW12C; PW15A; PW15AH; PW22; SP4</p> <p>-</p>	 <p>Conveyor scales</p> <p>PW2D; PW10A; PW12C; PW22; PW15A; PW15AH</p> <p>FIT/0 ... 5; PW20i; PW18C3 ...</p>	 <p>Hand-elevating weighers</p> <p>PW15A; SP4</p> <p>-</p>
 <p>Overhead track scales</p> <p>PW12C, PW16A</p> <p>-</p>	 <p>Dynamic weighers</p> <p>PW2D; PW6D; PW22</p> <p>FIT/0 ... 5; PW20i</p>	 <p>Shop-counter scales</p> <p>PW6C/D; PW2C/D; SP4</p> <p>FIT/0 ... 5; PW18i</p>	 <p>Suspended tank weighers</p> <p>PW12C</p> <p>FIT/0 ... 5</p>
<p> Analog load cells</p>		<p> Digital load cells</p>	


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.

Output	Version	Accuracy class	Maximum capacity	Explosion protection	Cable length	More options
<ul style="list-style-type: none"> Analog Digital 	<ul style="list-style-type: none"> Steel Aluminum 	<ul style="list-style-type: none"> C3 C3-MR 	<ul style="list-style-type: none"> 300g ... 660kg 	<ul style="list-style-type: none"> Zone 1+20 Zone 1+21 Zone 2+22 	<ul style="list-style-type: none"> 0.35 m ... 12 m 	<ul style="list-style-type: none"> Aligned output



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

K-PW15A-... (Stainless steel), optional versions [III]

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

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www.hbm.com/weighing

HBM – The right solution for your application ...

We provide sophisticated and innovative weighing
technology specifically for your application:

- ___ Load cells and weighing modules
- ___ Mounting aids and extensive accessories
- ___ Bus-capable electronics and amplifiers
- ___ Software for visualization, process control and analysis



Convenient, quick, simple and safe – shop at the HBM online shop

At www.hbm.com/shop you will find the right strain gages and load cells for your specific application, as well as suitable accessories and valuable additional information.

For the extensive range on offer at HBM online, see ...

www.hbm.com/shop

¹⁾ The HBM online shop is currently available in the following countries:
Germany, Austria, Switzerland, Benelux countries, France, Spain, Portugal, Italy, United Kingdom and Ireland.

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measurement with confidence