

Configurable Floor Platforms



PFA584/589 Floor Scales

Accurate Out-of-the-Box

Faster Scale-Up

Globally Approved

Standardized Servicing

Globally Configurable Solutions
Customized for Maximum Value

METTLER TOLEDO

Floor Scale Procurement Made Easy

Solutions for Every Application

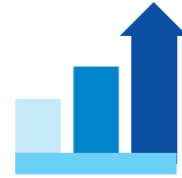
At METTLER TOLEDO, we know the needs of every industry are different, which is why the PFA5 is not a one-size-fits-all solution. We have taken the pain out of the floor scale configuration process by creating an easy-to-order, globally standardized set of components that can easily be mixed-and-matched to formulate your ideal scale.

What you can expect from this easy-to-configure solution:



Accurate Out-of-the-Box

By storing the factory calibration values within the scale, you get out-of-the-box accuracy and easy setup. Not only does this save you time and money during installation, it also gives you assurance your weighments are METTLER TOLEDO accurate.



Faster Scale-Up

The ability to mix-and-match from a set of globally approved components significantly eases the ordering and scale up process. Whether you are outfitting a single production line or sister factories around the world, the PFA5 makes the process painless.



Global Approvals for Consistency

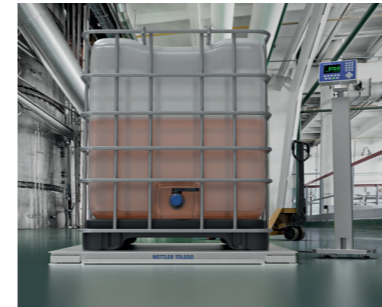
Metrology: OIML, NTEP, CPA
 Wireless: FCC, CE/RED,SRRC
 EMC: FCC, CE
 Bluetooth: SIG
 Safety: UN38.3/battery transportation, IEC/EN61010, UL
 Ex: IECEx, ATEX, FM approved for Hazardous Areas Zone 1/21, 2/22 and Div 1/Div 2



EPC or System Integrator? The PFA5 helps make your job easier!

As an EPC or system integrator, you may work with a variety of applications for companies who are multi-regional or even multinational. Our globally standardized floor scale solution enables you to easily deliver a standard solution to your customers worldwide. This ability to provide consistency worldwide in combination with our extensive portfolio of weighing and processing solutions and our consultative approach enable a smooth process for you and your customers.

Our Solutions for your Application Environment



Chemical and Hazardous Environments

For chemical and hazardous manufacturing environments, corrosive materials and safety are top concerns. Maximize uptime and compliance to hazardous area standards with this robust configuration:

- Stainless or mild steel platform
- Rocker pin suspension
- AJB579 Ex-approved stainless steel junction box
- O745A stainless steel load cells



Pharmaceutical

For pharmaceutical manufacturers, quality and compliance are key. Limited space, repeatable measurements, and cleaning can be challenging. Ensure compliance with this smart configuration:

- Stainless steel smooth plate
- Rocker pin suspension
- ACW520 Cable-Free junction box
- O745A stainless steel load cells



Food

For food manufacturing environments, productivity and hygiene are key. Heavy wash-down and temperature changes can lead to high maintenance costs. Stand up to the harshest environments with this rugged configuration:

- Stainless steel pattern plate
- Rocker foot suspension
- AJB579d SICSpro junction box
- O745A stainless steel load cells



General Manufacturing

Heavy duty applications require the toughest scale. Forklift traffic, heavy loads, and forceful impacts create havoc with sensitive measurement devices. Choose a configuration that can stand up to the daily rigor:

- Mild steel platform
- Rocker pin suspension
- AJB459 junction box
- SLB415 nickel plated load cells

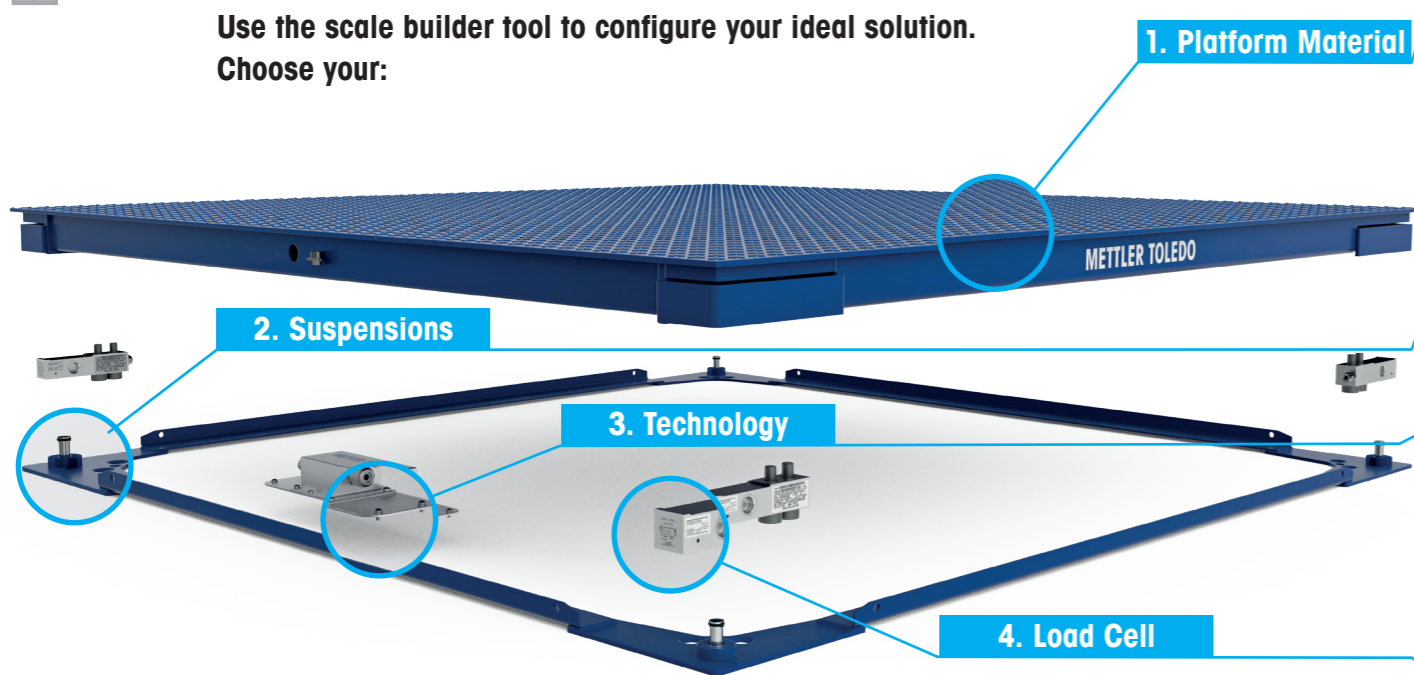
Check out the next page for easy configuration!

Easily Build Your Ideal Solution

Mix-and-Match Scale Configuration

Significantly ease the ordering and scale up process with flexible customization and expert METTLER TOLEDO consultancy. It's easy to see why this solution is ideal for multinational companies, because it eliminates the need to order different configurations country-by-country.

Use the scale builder tool to configure your ideal solution. Choose your:



“ With the PFA5 we were able to order exactly what we needed to retrofit our line without the typical wait time for customized solutions. ”

Operations Manager



Build Your Ideal Solution

1. Choose from the following platform material options:



- Stainless steel – ideal for corrosive or wash-down applications
- Mild steel painted – best for dry environments
- Options for both pattern safety plate or smooth plate

1

2. Choose from the following suspension options:

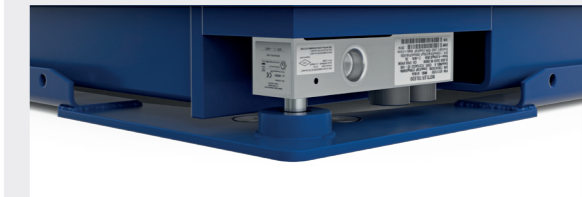
Foot Options

- Rocker foot suspension



Rocker Pin / Full Frame

- Best Accuracy - Most Robust
- Rocker pin suspension



2

3. Choose from the following weighing technology:

Standard Analog

- Field-Calibrated
- Ex-approved versions



Smart Weighing

- Accuracy Out-of-the-Box
- SICSpro
- Cable-Free



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4. Choose from the following load cell options:

Best for Dry Environments

- Heavy Duty Use Cases
- SLB415 / Nickel Plated, Hermetic, IP67



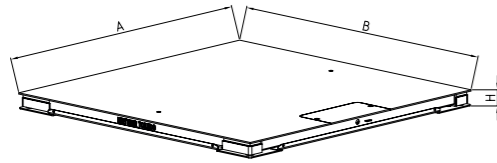
Best for Harsh Environments

- Wash-Down, Chemicals, Heavy Duty Applications
- O745A / Stainless, Hermetic, IP68, IP69K, Ex-approved



4

Floor Platforms Model Specific Data



Maximum Capacity	kg	300	600	1,500	3,000	6,000	12,000
Height (H)*	mm	78	78	78	78	81	102
Sizes A x B, See above dimensional drawing							
0.8x0.8	[m]	•	•	•	•		
1.0x1.0	[m]	•	•	•	•		
1.25x1.0	[m]	•	•	•	•		
1.25x1.25	[m]	•	•	•	•	•	
1.5x1.25	[m]	•	•	•	•	•	
1.5x1.5	[m]	•	•	•	•	•	■
2.0x1.5	[m]	•	•	•	•	•	■
2.0x2.0	[m]			•	•	•	■
Free size							
0.7x0.4 - 1.0x1.0	[m]	•	•	•	•		
1.0x1.0 - 1.5x1.5	[m]	•	•	•	•		
1.5x1.5 - 2.0x2.0	[m]	•	•	•	•	•	•
Approved Accuracy Resolution Class III Single Range							
1x3,000e	[kg]	0.1	0.2	0.5	1	2	5
6,000e	[kg]	0.05	0.1		0.5	1	2
Approved Accuracy Readability Class III 2x 3000e Multi Range							
Max1/ e1	[kg]	150/ 0.05	300/ 0.1	600/ 0.2	1,500/ 0.5	3,000/ 1.0	6,000/ 2.0
Max2/ e2	[kg]	300/ 0.1	600/ 0.2	1,500/ 0.5	3,000/ 1.0	6,000/ 2.0	12,000/ 3.0
Approved Accuracy Readability Class III 3x 3000e Multi Range							
Max1/ e1	[kg]		150/ 0.05	300/ 0.1	600/ 0.2		
Max2/ e2	[kg]		300/ 0.1	600/ 0.2	1,500/ 0.5		
Max3/ e3	[kg]		600/ 0.2	1,500/ 0.5	3,000/ 1.0		
Approved Accuracy Readability Class III 2x 3000e Multi Interval							
Max1/ e1	[kg]	150/ 0.05	300/ 0.1	600/ 0.2	1,500/ 0.5		
Max2/ e2	[kg]	300/ 0.1	600/ 0.2	1,500/ 0.5	3,000/ 1.0		
Recommended Readability (min.)							
15,000d	[kg]	0.02		0.1	0.2		
30,000d	[kg]		0.02	0.05	0.1	0.2	
Maximum Permissible Error at Maximum Load (Limit Values, Approved platforms only)							
3,000e	[kg]	0.15	0.3	0.75	1.5	3	7.5
6,000e	[kg]	0.075	0.15		0.75	1.5	3
Minimum Capacities (Approved Platforms Only)							
3,000e	[kg]	2	4	10	20	40	100
6,000e	[kg]	1	2		10	20	40
2x 3,000e MR	[kg]	1	2	4	10	20	40
3x 3,000e MR	[kg]		1	2	4		
2x 3,000e MI	[kg]	1	2	4	10		
Typical Values **							
Repeatability sd (at max. load) for 3,000e	[g]	20	40	100	150	500	1,000
Repeatability sd (at max. load) for 6,000e	[g]	15	30	70	100	400	600
Error of indication (at half load)	[g]	22	48	105	150	500	800
Error of indication (at full load)	[g]	30	55	120	200	600	1,000
Maximum static safe load(kg)							
Central load	[kg]	1,500	3,500	3,500	4,500	9,000	18,000
Side load	[kg]	900	2,300	2,300	3,000	6,000	9,000
Corner load	[kg]	450	1,150	1,150	1,500	3,000	4,500

Zero setting range= +/- 10% of max. capacity; Scales with 3x3000e MR might have a lower zero setting range; Taring range subtractive from 0 to max. capacity.

*The height is for rocker pin/full frame suspension option.

** At room temperature and stable environmental conditions without vibration and draft, with automated weight placement.

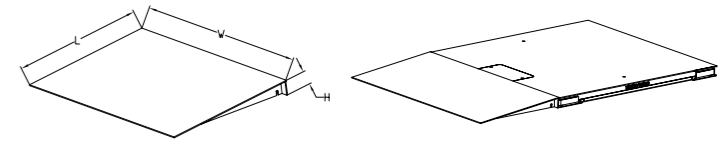
Floor Platforms Preload Range

		Total Preload of non-approved PFA584/589 Floor Platforms						
Scale maximum capacity	[kg]	300	600	1,500	3,000	6,000	12,000	
Platform Size	0.8x0.8 m	[kg]	470	1,390	2,560	1,210		
	1.0x1.0 m	[kg]	450	1,370	2,540	1,190		
	1.25x1.0 m	[kg]	430	1,350	2,520	1,170		
	1.25x1.25 m	[kg]	420	1,330	2,500	1,150	2,360	
	1.5x1.25 m	[kg]	390	1,310	2,480	1,130	2,330	
	1.5x1.5 m	[kg]	370	1,290	2,460	1,110	2,290	4,790
	2.0x1.5 m	[kg]	320	1,230	2,400	1,050	2,210	4,700
	2.0x2.0 m	[kg]			2,340	990	2,080	4,580

Options / Accessories

Ramps

Ramps allow easy access from any side of a scale, eliminating the need to lift heavy loads onto the platform.

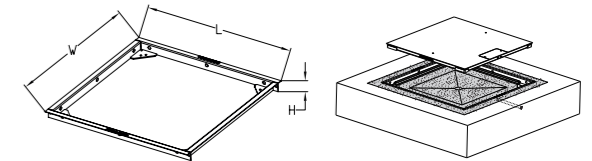


Model		Ramp 800 mm	Ramp 1,000 mm	Ramp 1,250 mm	Ramp 1,500 mm	Ramp 2,000 mm	Ramp* 1,500 mm	Ramp* 2,000 mm	
	Dimensions	W [mm]	800	1,000	1,250	1,500	2,000	1,500	2,000
	H [mm]	80						104	
	L [mm]	745						1,000	
Material		Powder coated carbon steel / Glass blasted stainless steel							
Top plate		Carbon steel pattern plate / Stainless steel smooth plate							

*Use for models marked with ■ in previous page.

Quick-Pit Frame

With our Quick-Pit frame, installing a floor scale in a pit is an easy, trouble-free process. Just level the frame in the pit and pour concrete to complete the pit. After the concrete has cured, install the scale and anchor it. The result is a pit scale that is square and flush with the floor.

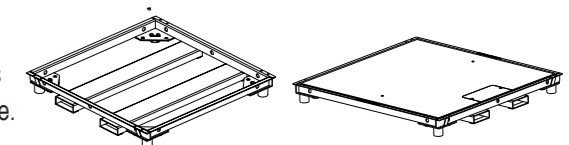


Model		Pit Frame 800 x 800	Pit Frame 1,000 x 1,000	Pit Frame 1,250 x 1,000	Pit Frame 1,250 x 1,250	Pit Frame 1,500 x 1,250	Pit Frame 1,500 x 1,500	Pit Frame 2,000 x 1,500	Pit Frame 2,000 x 2,000	Pit Frame* 1,500 x 1,500	Pit Frame* 2,000 x 1,500	Pit Frame* 2,000 x 2,000	
	Dimensions	W [mm]	934	1,134	1,134	1,384	1,384	1,634	1,634	2,134	1,634	1,634	2,134
	L [mm]	934	1,134	1,384	1,384	1,634	1,634	2,134	2,134	1,634	2,134	2,134	
	H [mm]	92						116					
Material		Powder coated carbon steel / Glass blasted stainless steel											

*Use for models marked with ■ in previous page.

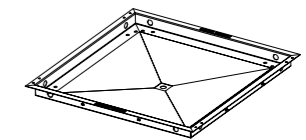
Forklift Channel Frame

This frame makes it easy to move the scale with a forklift. Simply slide the forks into the channels and lift. The heavy-duty frame protects the scale from damage.



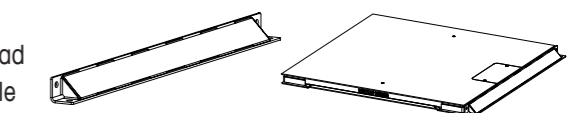
Pit Liner

Pit Liner makes the pit more clean and sanitary.



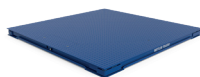
Scale Guard

Protect your scale from side-impact damage with scale guards. When a forklift hits the side of a scale, the impact can bend the scale's frame or damage its load cells. The angled guard prevents damage by deflecting the impact upward. Scale guards can be used on any or all sides of a floor scale.



Globally Standard Solutions

General Specifications



Model		PFA584	PFA589
Platform Material	Mild Steel Powder Coated, Blue	•	
	Stainless Steel AISI304		•
	Load Plate Surface: blasted, Ra <= 5µm (welding lines excluded)		•
Top Deck Plate	Smooth	•	•
	Pattern	•	•
Sizes	From 0.8×0.8 m to 2.0×2.0 m		
Capacities	From 300 kg to 12,000 kg		
Compliance	Metrology	OIML Class III, NTEP Class III, CPA Class III	
	EMC	10 V/m	
Hazardous Area Approvals	ATEX	No	3G / 3D Load cell 0745A: KEMA 03ATEX1070 Junction box AJB579xx-α: BVS 18 ATEX E 008 2G / 2D Load cell 0745A: KEMA 03ATEX1069 Junction box AJB579xx-α: BVS 18 ATEX E 007
	IECEX	No	Gb / Db or Gc /Dc Load cell 0745A: IECEX DEK 15.0017 Junction box AJB579xx-α/AJB579xx-α: IECEX BVS 18.0008
	FM US	NI/I, II, III/2/ABCD/FG/T6 Ta=55C	
	FM Canada	NI/I, II/2/ABCD/FG/T6 Ta=55C / DIP/III/2/T6 ta=55C	
	NEPSI CN	Ex ic nA IIC T4 Gc Ex nA IIC T4 Gc Ex tD A22 IP6X T130°C Ex ib IIC T4 Gb Ex ibD 21 T85-T135	
Temperature Range	Compensated	-10°C - +40°C / 14°F - 104°F	
	Operating (safe area)	-20°C - +65°C	
Home Run Cable / Length	Polyurethane, 5 m, 10 m, 20 m		
Load Cell	SLB415 / 0745A, IP68/IP69K		
Scale Interfaces	Analog, SICSpro, Cable-Free		



Fast Consistent Service

Faster, standard service worldwide for multinational companies. Gain efficiency and get up and running at every plant with ensured consistency.

► www.mt.com/service

www.mt.com/PFA584
www.mt.com/PFA589

For more information

METTLER TOLEDO Group

Industrial Division

Local contact: www.mt.com/contacts

Subject to technical changes

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