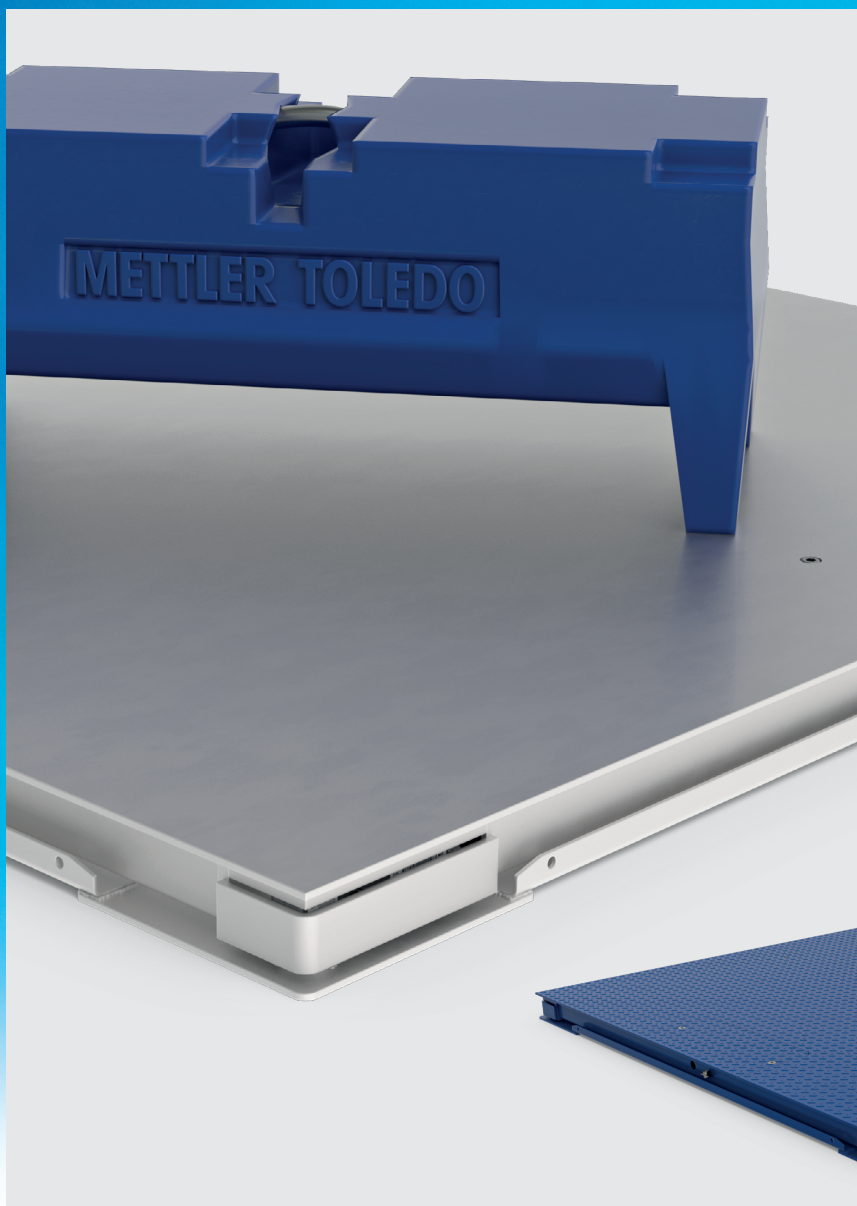# Configurable Floor Platforms



**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.

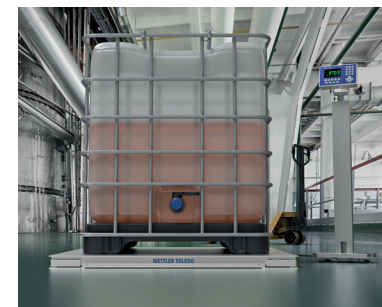### Global Approvals for Consistency
Metrology: OIML, NTEP, CPA
Wireless: FCC, CE/RED,SRRC
EMC: FCC, CE
Bluetooth: SIG
Safety: UN38.3/battery transportation, IEC/EN61010, UL
Ex: IECEx, ATEX, FM approved for Hazardous Areas Zone 1/21, 2/22 and Div 1/Div 2

### 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
- 0745A 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
- 0745A 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
- 0745A 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
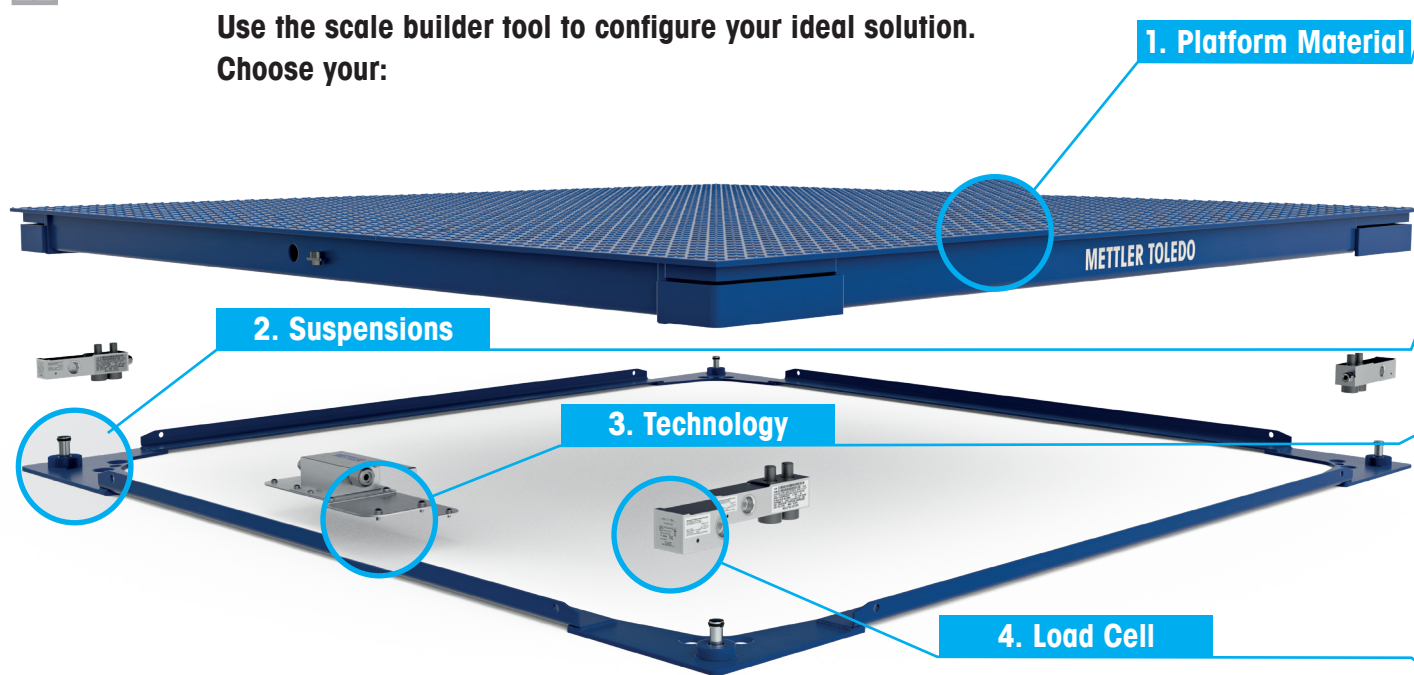- SLB415 nickel plated load cells

**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:**

1. Platform Material

2. Suspensions

3. Technology

4. Load Cell

> 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
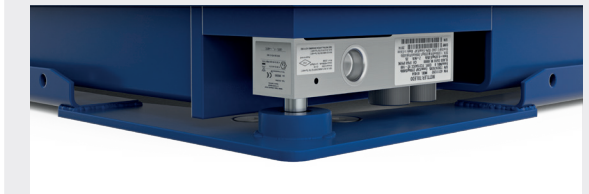
**1**

### 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:
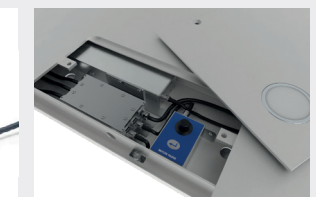
**Standard Analog**
- Field-Calibrated
- Ex-approved versions

**Smart Weighing**
Accuracy Out-of-the-Box
- SICSpro
- Cable-Free

**3**

### 4. Choose from the following load cell options:

**Best for Dry Environments**
Heavy Duty Use Cases
- SLB415 / Nickel Plated, Hermetic, IP67
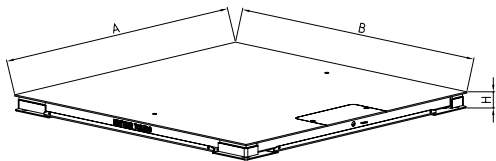
**Best for Harsh Environments**
Wash-Down, Chemicals, Heavy Duty Applications
- 0745A / Stainless, Hermetic, IP68, IP69K, Ex-approved

**4**

## Floor Platforms Model Specific Data



| | | 300 | 600 | 1,500 | 3,000 | 6,000 | 12,000 |
|---|---|---|---|---|---|---|---|
| Maximum Capacity | kg | 300 | 600 | 1,500 | 3,000 | 6,000 | 12,000 |
| Height (H)* | mm | 78 | 78 | 78 | 78 | 81 | 102 |
| **Sizes A × B, See above dimensional drawing** | | | | | | | |
| 0.8×0.8 | [m] | • | • | • | • | | |
| 1.0×1.0 | [m] | • | • | • | • | | |
| 1.25×1.0 | [m] | • | • | • | • | | |
| 1.25×1.25 | [m] | • | • | • | • | • | |
| 1.5×1.25 | [m] | • | • | • | • | • | |
| 1.5×1.5 | [m] | • | • | • | • | • | ■ |
| 2.0×1.5 | [m] | • | • | • | • | • | ■ |
| 2.0×2.0 | [m] | | | • | • | • | ■ |
| **Free size** | | | | | | | |
| 0.7×0.4 - 1.0×1.0 | [m] | • | • | • | • | | |
| 1.0×1.0 - 1.5×1.5 | [m] | • | • | • | • | | |
| 1.5×1.5 - 2.0×2.0 | [m] | • | • | • | • | • | • |
| **Approved Accuracy_Resolution Class III Single Range** | | | | | | | |
| 1×3,000e | [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 | 1500/ 0.5 | | |
| Max3/ e3 | [kg] | | 600/ 0.2 | 1500/ 0.5 | 3000/ 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 Permissable 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.
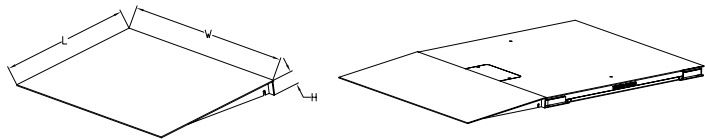
## Floor Platforms Preload Range

| | | **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** 0.8×0.8 m | [kg] | 470 | 1,390 | 2,560 | 1,210 | | |
| 1.0×1.0 m | [kg] | 450 | 1,370 | 2,540 | 1,190 | | |
| 1.25×1.0 m | [kg] | 430 | 1,350 | 2,520 | 1,170 | | |
| 1.25×1.25 m | [kg] | 420 | 1,330 | 2,500 | 1,150 | 2,360 | |
| 1.5×1.25 m | [kg] | 390 | 1,310 | 2,480 | 1,130 | 2,330 | |
| 1.5×1.5 m | [kg] | 370 | 1,290 | 2,460 | 1,110 | 2,290 | 4,790 |
| 2.0×1.5 m | [kg] | 320 | 1,230 | 2,400 | 1,050 | 2,210 | 4,700 |
| 2.0×2.0 m | [kg] | | | 2,340 | 990 | 2,080 | 4,580 |

## Options / Accessories

### Ramps

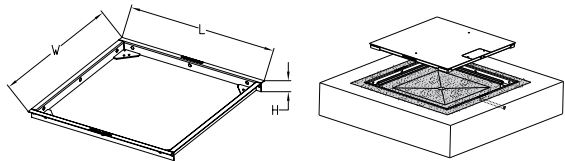Ramps allow easy access from any side of a scale, eliminating the need to lift heavy loads onto the platform.



| 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.
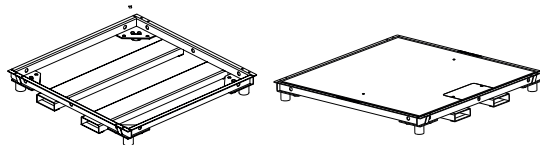


| Model | | Pit Frame 800 ×800 | Pit Frame 1,000 ×1,000 | Pit Frame 1,250 ×1,000 | Pit Frame 1,250 ×1,250 | Pit Frame 1,500 ×1,250 | Pit Frame 1,500 ×1,500 | Pit Frame 2,000 ×1,500 | Pit Frame 2,000 ×2,000 | Pit Frame* 1,500 ×1,500 | Pit Frame* 2,000 ×1,500 | Pit Frame* 2,000 ×2,000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **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 | | | | | | | | | | |

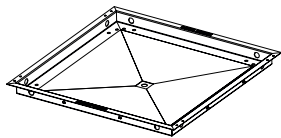*Use for models marked with ■ in previous page.

### 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.
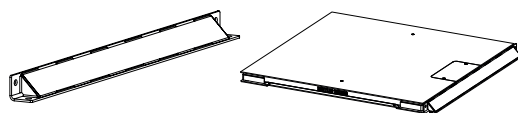


### Pit Liner

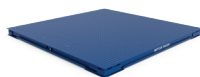Pit Liner makes the pit more clean and sanitary.

### 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<br>Load cell 0745A:  KEMA 03ATEX1070<br>Junction box AJB579xx-α: BVS 18 ATEX E 008<br>2G / 2D<br>Load cell 0745A: KEMA 03ATEX1069<br>Junction box AJB579x-α: BVS 18 ATEX E 007 |
| | IECEx | No | Gb / Db or Gc /Dc<br>Load cell 0745A: IECEx DEK 15.0017<br>Junction box AJB579x-α/AJB579xx-α: IECEx BVS 18.0008 |
| | FM US | NI/I, II, III/2/ABCDFG/T6 Ta=55C | |
| | FM Canada | NI/I, II/2/ABCDFG/T6 Ta=55C / DIP/III/2/T6 ta=55C | |
| | NEPSI CN | Ex ic nA IIC T4 Gc<br>Ex nA IIC T4 Gc<br>Ex tD A22 IP6X T130°C<br>Ex ib IIC T4 Gb<br>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