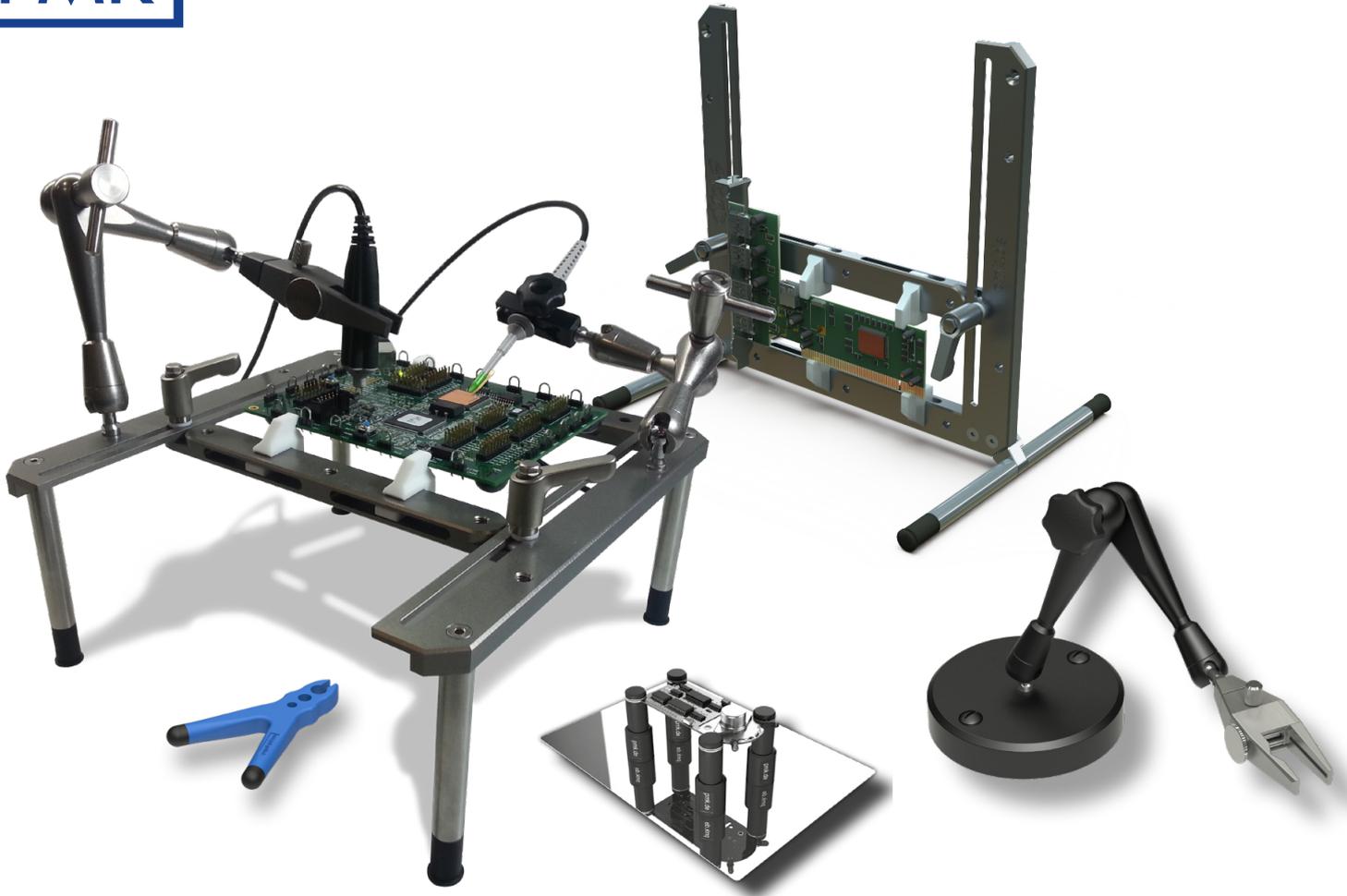




**Probing Solutions.
Made in Germany.**

EN



Positioning System Series

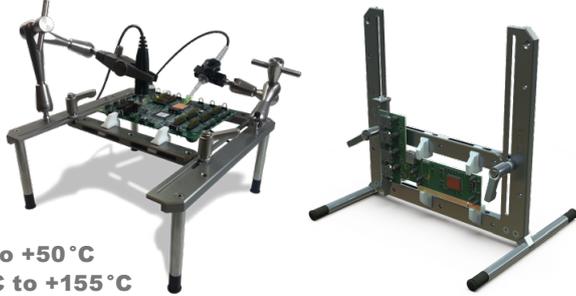
Test & Debugging Platforms for Daily Use

Datasheet



SKID® Positioning Systems

Overview



0°C to +50°C
-55°C to +155°C

SKID® is a unique platform designed to satisfy all sorts of different demands on PCBA testing and debugging in one single item. It offers a modular design, which enables the user to expand the SKID® according to his needs.

The frame is available in three versions: SKID®S offers a clamping width of at least 160x160 mm, which fits the 3U standard PCB form factor, SKID®M for 6U cards and SKID®L with a clamping width of 300x340 mm. Of course smaller boards can be tested as well. The PCBA spacers can be positioned to clamp most geometrical forms; even inconvenient non-standard shapes, that are usually hard to clamp.

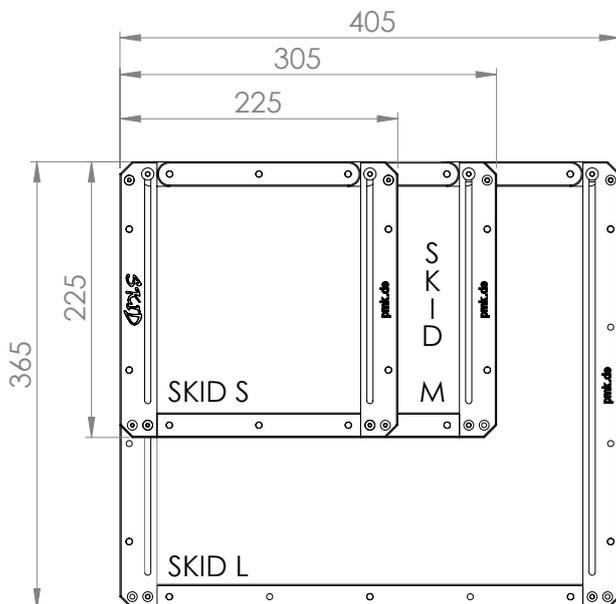
The PCBA resides 10 mm above the frame, offering a better accessibility to the dut and the SKID® itself stands on 90 mm pedestals, enabling access from top- and bottom-side simultaneously. Standard M6 threads are all around the frame to mount equipment, such as probe positioners, lamps or other accessories.

Key Features:

- Handsfree testing & debugging
- Fast and universal setups
- Intuitive clamping system
- Environmental testing



Dimensions



The following configurations can be built with any SKID:

Flat Assembly

- With 20 mm stilts.
(e.g. as soldering device)



Standard Assembly

- With 90 mm stilts.



Vertical Assembly

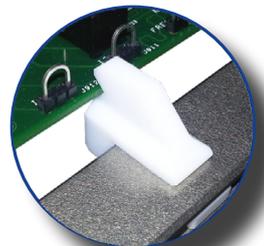
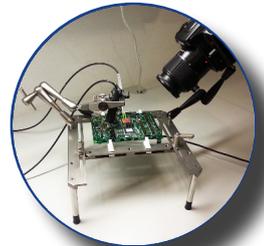
- For operation from 2 sides.



Temperature Range

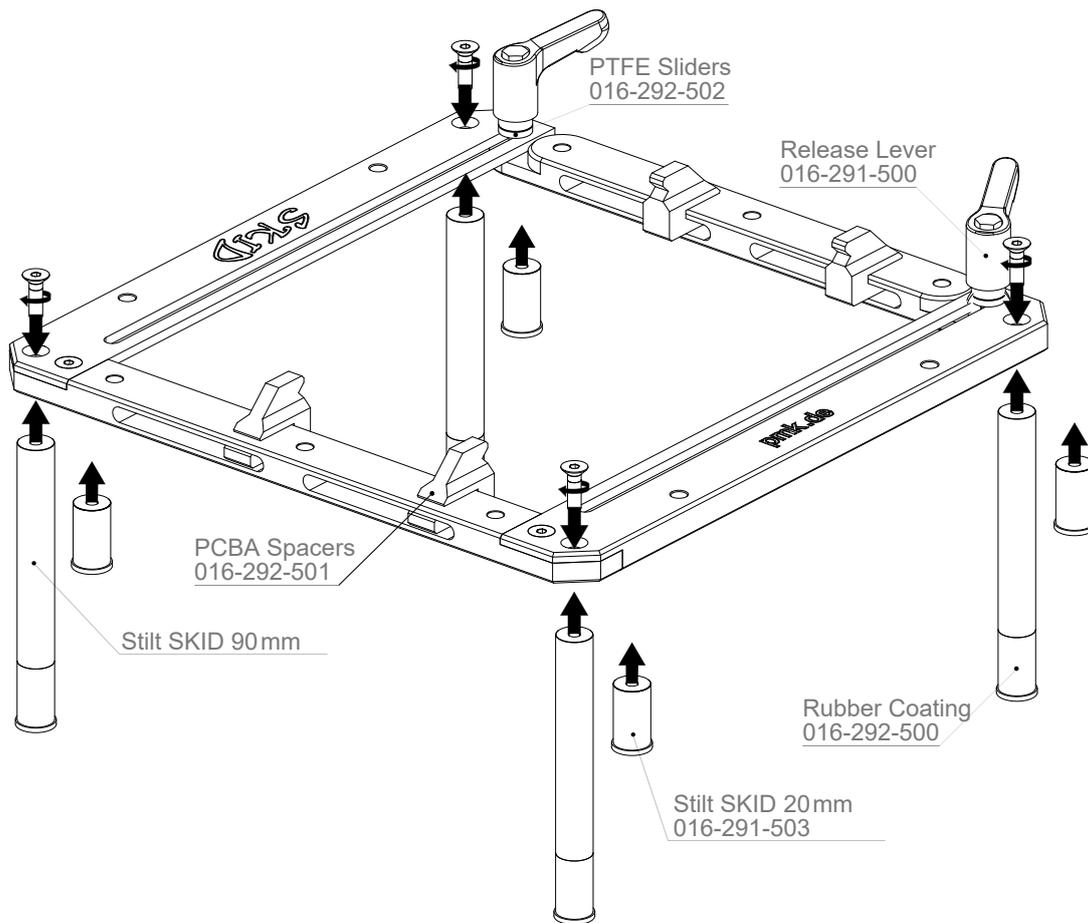
Depending on its configuration, SKID® can be used from 0°C to +50°C, or for environmental testing in climate chambers for temperatures from -55°C to +155°C, each with non-condensing humidity, depending on chosen model.

SKID® is available in three sizes. SKID®S for 3UPCB's, SKID®M for 6U PCB's and SKID®L for any PCBA's larger than the 6U standard. Since the frame consists only of a few parts, the set-up of the SKID® is done in a breath. M6 threads all around the frame allow mounting of multiple accessories, such as test equipment, lighting and magnifiers or even cameras to record or stream video. e.g. thermal images. The low gravity center of the SKID® allows even comparable large and heavy devices to be mounted.

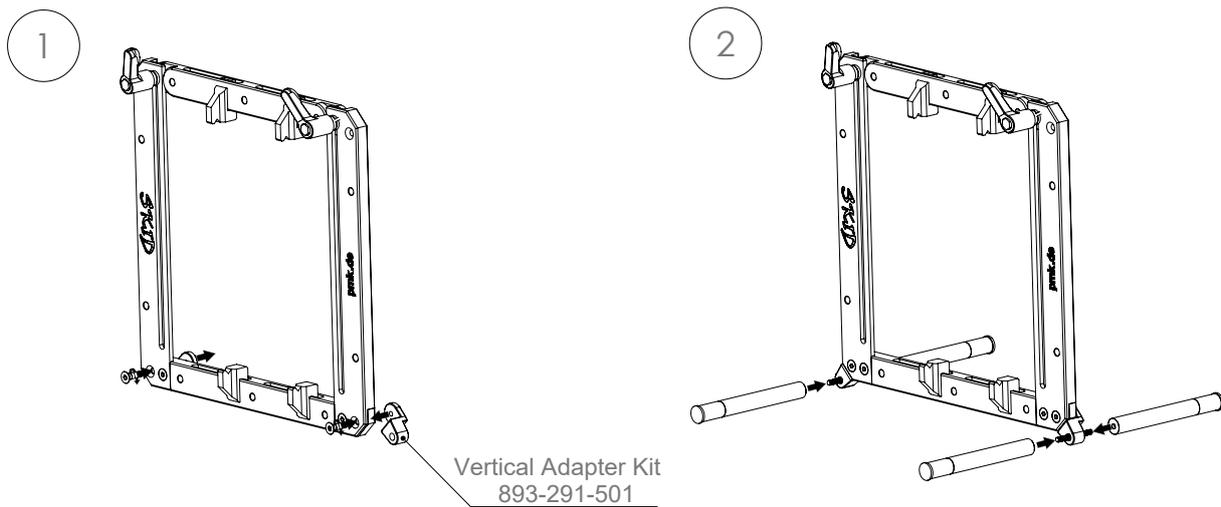


SKID® Assembly

Horizontal Assembly:



Vertical Assembly:



Ordering Information: SKID®

| | | | | | |
|---|--|--|---|--|--|
| <p>SKID-S, 3U Board Tester, (160 x 160 mm) Order No.: 893-500-000</p> |  <p style="text-align: center;">-55°C to +155°C</p> | <ul style="list-style-type: none"> • 1x Frame SKID-S, 3U Board Tester Order No.: 893-500-000 • 1x Single Head Wrench SW7mm Order No.: 893-000-SW7 • 1x Allen Wrench 2.5 mm Order No.: 893-000-I25 • 1x Skid Vertical Adapter Kit Order No.: 893-291-501 • 4x Stilt SKID 2cm Order No.: 016-291-503 • 4x Stilt SKID 9cm | <p>SKID-S Starter Kit, 3U Board Tester, (160 x 160 mm) Order No.: 893-500-START</p> |  <p style="text-align: center;">0°C to +50°C</p> | <ul style="list-style-type: none"> • 1x SKID-S, 3U Board Tester Order No.: 893-500-START • 1x Single Head Wrench SW7mm Order No.: 893-000-SW7 • 1x Allen Wrench 2.5 mm Order No.: 893-000-I25 • 1x Skid Vertical Adapter Kit Order No.: 893-291-501 • 4x Stilt SKID 2cm Order No.: 016-291-503 • 4x Stilt SKID 9cm • 1x Uniholder Order No.: 893-090-000 • 1x Holder for Probes 5-12 mm Order No.: 893-050-000 • 1x 3D Measuring-Tripod 130 mm Order No.: 893-200-130 • 1x 3D Measuring-Tripod 200 mm Order No.: 893-200-200 |
| <p>SKID-M, 6U Board Tester, (240 x 160 mm) Order No.: 893-500-010</p> |  <p style="text-align: center;">-55°C to +155°C</p> | <ul style="list-style-type: none"> • 1x Frame SKID-M, 6U Board Tester Order No.: 893-500-010 • 1x Single Head Wrench SW7mm Order No.: 893-000-SW7 • 1x Allen Wrench 2.5 mm Order No.: 893-000-I25 • 1x Skid Vertical Adapter Kit Order No.: 893-291-501 • 4x Stilt SKID 2cm Order No.: 016-291-503 • 4x Stilt SKID 9cm | <p>SKID-M Starter Kit, 6U Board Tester, (240 x 160 mm) Order No.: 893-600-START</p> |  <p style="text-align: center;">0°C to +50°C</p> | <ul style="list-style-type: none"> • 1x SKID-M, 6U Board Tester Order No.: 893-600-START • 1x Single Head Wrench SW7mm Order No.: 893-000-SW7 • 1x Allen Wrench 2.5 mm Order No.: 893-000-I25 • 1x Skid Vertical Adapter Kit Order No.: 893-291-501 • 4x Skid Vertical 2cm Order No.: 016-291-503 • 4x Skid Vertical 9cm • 1x Uniholder Order No.: 893-090-000 • 1x Holder for Probes 5-12 mm Order No.: 893-050-000 • 2x 3D Measuring-Tripod 200 mm Order No.: 893-200-200 |
| <p>SKID-L, Board Tester, (340 x 300mm) Order No.: 893-500-020</p> |  <p style="text-align: center;">-55°C to +155°C</p> | <ul style="list-style-type: none"> • 1x Frame SKID-L, Board Tester Order No.: 893-500-020 • 1x Single Head Wrench SW7mm Order No.: 893-000-SW7 • 1x Allen Wrench 2.5 mm Order No.: 893-000-I25 • 1x Skid Vertical Adapter Kit Order No.: 893-291-501 • 4x Stilt SKID 2cm Order No.: 016-291-503 • 4x Stilt SKID 18cm | <p>SKID-L Starter Kit, Board Tester, (340 x 300 mm) Order No.: 893-700-START</p> |  <p style="text-align: center;">0°C to +50°C</p> | <ul style="list-style-type: none"> • 1x SKID-L, Board Tester Order No.: 893-700-START • 1x Single Head Wrench SW7mm Order No.: 893-000-SW7 • 1x Allen Wrench 2.5 mm Order No.: 893-000-I25 • 1x Skid Vertical Adapter Kit Order No.: 893-291-501 • 4x Stilt SKID 2cm Order No.: 016-291-503 • 4x Stilt SKID 18cm • 1x Uniholder Order No.: 893-090-000 • 1x Holder for Probes 5-12 mm Order No.: 893-050-000 • 2x 3D Measuring-Tripod 200 mm Order No.: 893-200-200 |

Ordering Information: SKID® Accessories

The operating temperature range is -55°C to +155°C, if not otherwise indicated below. Always ensure non-condensing humidity.

| Order No. | Item | Order No. | Item |
|-------------|---|-------------|---|
| 893-000-MI6 | Camera Adapter 1/4" to M6 (SW 13 mm)  | 893-291-501 | Skid Vertical Adapter Kit  |
| 893-000-SW7 | Single Head Wrench SW 7mm  | 016-292-500 | Rubber Pad SKID  |
| 893-000-I25 | Allen Wrench 2.5 mm  | 016-292-501 | PCBA Spacer SKID PTFE  |
| 893-050-000 | Holder for Probes 5-12 mm 0°C to +50°C  | 016-292-502 | Teflon Slider  |
| 893-090-000 | Universal Probe Holder  | 893-010-000 | Twinaadapter to 2xM6 Ball End 0°C to +50°C  |
| 893-200-130 | 3D Measuring-Tripod 130 mm / M6 0°C to +50°C  | 016-291-503 | Stilt SKID 20 mm  |
| 893-200-13V | 3D Measuring-Tripod 130 mm / M6 V2A  | 016-291-506 | Positioning Rail SKID-S  |
| 893-200-200 | 3D Measuring-Tripod 200 mm / M6 0°C to +50°C  | 016-291-505 | Positioning Rail SKID-M  |
| 893-200-20V | 3D Measuring-Tripod 200 mm / M6 V2A  | 016-291-507 | Positioning Rail SKID-L  |
| 016-291-500 | Clamb Lever V2A 0°C to +50°C  | - | - |

3D Positioners

Overview



- Hands-Free Testing
- 3D Stepless Clamping System
- Accurate and Safe Positioning
- Fixing with one hand
- 0 °C to +50 °C, non-condensing humidity

Stepless Adjustable

The PMK 3D Positioners are stepless adjustable. The mechanical clamping system allows easy and exact positioning of probes and other accessories. The three joints of the stand can be fixed and released by a single rotation of the central clamping handle. Thus the 3D measuring stands offer highest operating comfort and allow effective and economical working.

Permanent Fixation - Stable Base

Due to the exact fit of the ball joints a high static friction is achieved, which gives the 3D measuring stand the desired stability. The three different model variants can be optimally integrated into your working environment: Steelbase, table clamp and vacuum base offer a stable basis for your daily measuring tasks, depending on the application. Please note that other combinations of base, positioner and probe holder are available at our distribution. This is only a selection of the available models.

For long-term fixation of complex measurement setups or as work simplification in PCB development, we recommend SKID®, compatible with the positioners on this page.

Assembled within Seconds

The 3D Positioning System consists of three parts:

Base, positioner and probe holder. It is assembled within seconds using the 7mm wrench enclosed in the scope of delivery.

Accurate and Safe

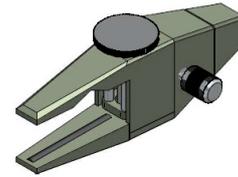
All PMK Probe positioning systems are ideal for semipermanent measurements. The setup is fast and easy offering greatest flexibility for your every day measuring- tasks.

Universal Usage

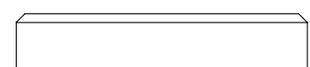
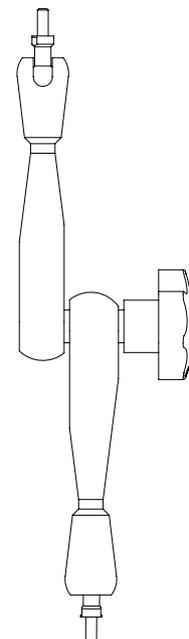
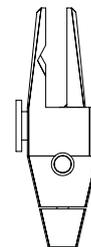
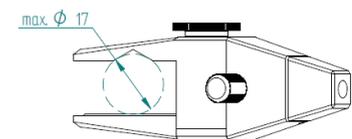
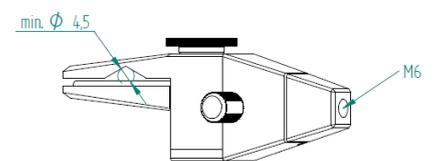
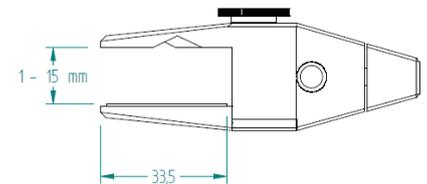
The PMK 3D Positioning System can be altered to fit different test applications. The customer may choose from four different Bases: Steel Base, Table clamp magnetic foot and vacuum cup as well as different arm lengths of 130 mm and 200 mm. The Probe-Holders are interchangeable too.

You may choose between the 3-Fold-Holder or Uniholder, which is not only capable of holding any 2.5 mm and 5.0 mm standard probes, but almost any measuring device up to a clamping width of 17 mm. Twinholder is designed to hold 4 mm Bananaplugs and similar measuring leads.

Dimensions Uniholder



Order-No.: 893-090-000



Ordering Information: 3D Positioners

| | MSA 100, 3D Measuring Tripod with Steelbase, 200 mm Span Width | MSA 130, 3D Measuring Tripod with Steelbase, 130 mm Span Width | MSB 40, 3D Measuring Tripod with Tableclamp, 200 mm Span Width | MSC 85, 3D Measuring Tripod with Vacuumbase, 200 mm Span Width |
|--------------|--|--|---|--|
| Order-Number | <p>0 °C to +50 °C</p>  <p>893-350-001</p> | <p>0 °C to +50 °C</p>  <p>893-350-008</p> | <p>0 °C to +50 °C</p>  <p>893-350-002</p> | <p>0 °C to +50 °C</p>  <p>893-350-003</p> |
| | MSU 1500, 3D Measuring Tripod with Steelbase, 200 mm Span Width bothsided M6 incl. Uniholder | MSM 130, 3D Measuring Tripod with Magnetfoot, 130 mm Span Width | MSM 200, 3D Measuring Tripod with Magnetfoot 200 mm Span Width | MST 200, 3D Measuring Tripod with Steelbase, 200 mm Span Width bothsided M6 incl. Twinholder |
| Order-Number | <p>0 °C to +50 °C</p>  <p>893-350-006</p> | <p>0 °C to +50 °C</p>  <p>893-350-004</p> | <p>0 °C to +50 °C</p>  <p>893-350-005</p> | <p>0 °C to +50 °C</p>  <p>893-350-010</p> |

Ordering Information: 3D Positioner Accessories

The temperature range is 0 °C to +50 °C, unless otherwise indicated. Always ensure non-condensing humidity.

| Order No. | Item | Order No. | Item |
|-------------------------|---|-------------|---|
| Base Options | | | |
| 893-100-001 | Steelbase M6 1200 g D= 100 mm  | 893-100-003 | Vacuumbase M8 D= 85mm  |
| 893-100-002 | Table Clamp M6 up to 40 mm  | 893-100-004 | Magneticfoot 170N M6 D= 30 mm  |
| | | 893-100-005 | Magneticfoot 300N M8 D=30 mm  |
| Tripod Options | | | |
| 893-200-130 | 3D Measuring Tripod 130 mm / M6  | 893-200-200 | 3D Measuring Tripod 200 mm / M6  |
| 893-200-13V | 3D Measuring-Tripod 130 mm / M6 V2A -55°C to +155°C  | 893-200-20V | 3D Measuring Tripod 200 mm / M6 V2A -55°C to +155°C  |
| Clamping Options | | | |
| 893-050-000 | 3D Measuring Tripod 130 mm / M6  | 893-010-000 | Twinadapter Accepting two M6 Threads  |
| 893-090-000 | Universal Probe Holder -55°C to +155°C  | 893-100-004 | Twinholder Accessing two 4 mm Bananaplugs  |
| Adapter | | | |
| 893-100-003 | Hex Wrench AF7 -55°C to +155°C  | 893-000-MI6 | Camera Adapter 1/4" to M6 (SW 13mm) -55°C to +155°C  |
| 893-000-M86 | Thread Adapter M8/M6 SW 13mm -55°C to +155°C  | - | - |

2-Footer Positioner



0 °C to +50 °C

Key Features:

- Handsfree Testing
- Anti-slip Seating

Order-No.: 893-250-001

Technical Data:

Weight: 51.5g

Materials: ABS, stainless steel

Finish: ABS

Seating: TPE

The PMK 2-Footer Positioner is a positioner for all PMK 2.5mm and 5 mm probes.

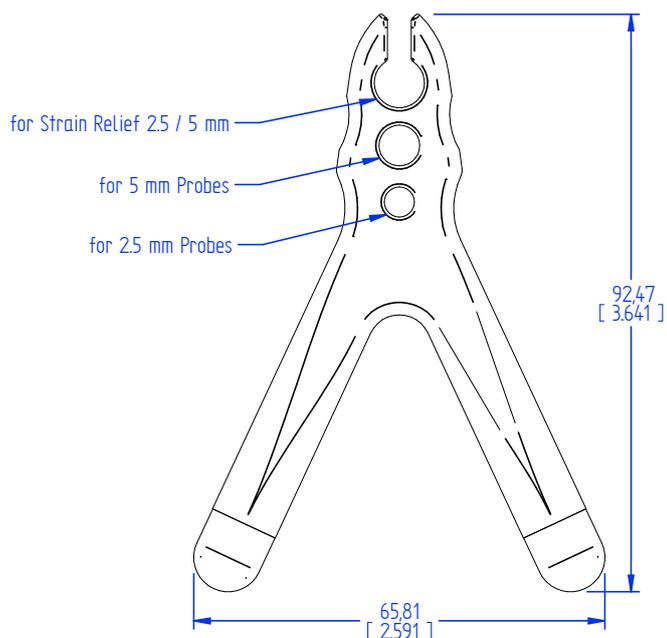
Also nearly all probes of other manufacturers can be arranged with this 2-Footer Positioner.

The 2-Footer Positioner has three different sized apertures into which the probes can be put, depending on their size.

The top aperture is conical and thus ideally suitable to clamp probes at the spout. Operating temperature range is 0 °C to +50 °C with non-condensing humidity.

Using

In order to align the probe with the positionierer, the probe has to be insert into the suitable aperture of the 2-Footer Positioner and then it can be arranged at the measuring point. It has to be noted that the front side of the 2-Footer Positioner is above when positioning the probe.



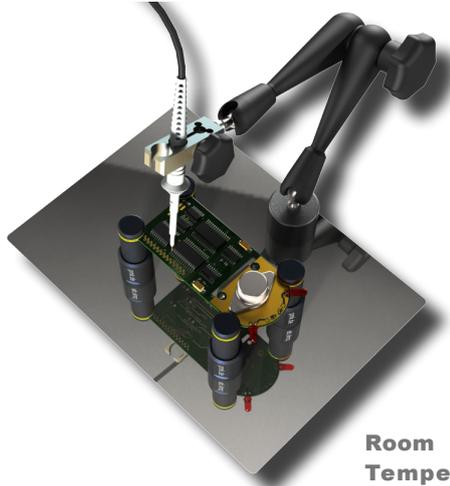
This product comes with 2 years warranty.



Skid`eco



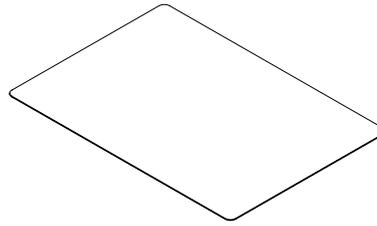
Order-No.: 893-250-001



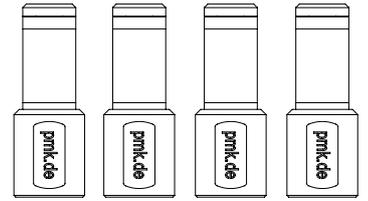
Room Temperature only

Scope of Delivery

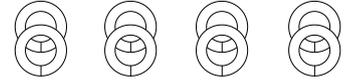
1x stainless steel base plate



4x holder



8x self-adhesive insulating washers

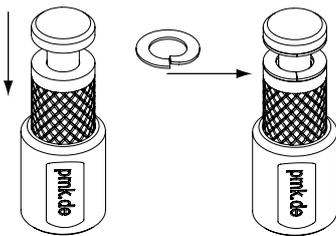


This product comes with 2 years warranty.

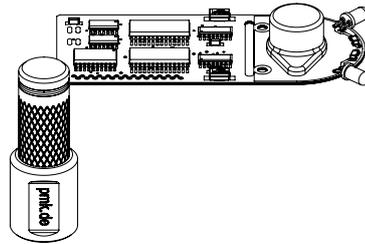
How to use the SKID `eco

1. Place the 4 magnetic holders with assembled washers onto the base plate.
2. Press the sleeve of the first holder downwards, place your PCB between the washers and release the sleeve to fix the PCB (picture 2).
3. Repeat step 2 to fix necessarily points of your PCB with the remaining holders (picture 3).

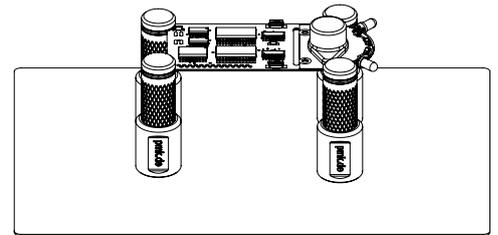
Picture 1:



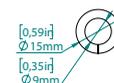
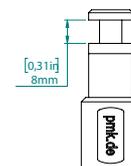
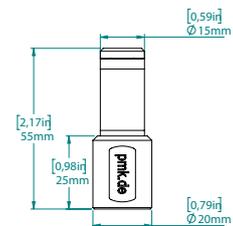
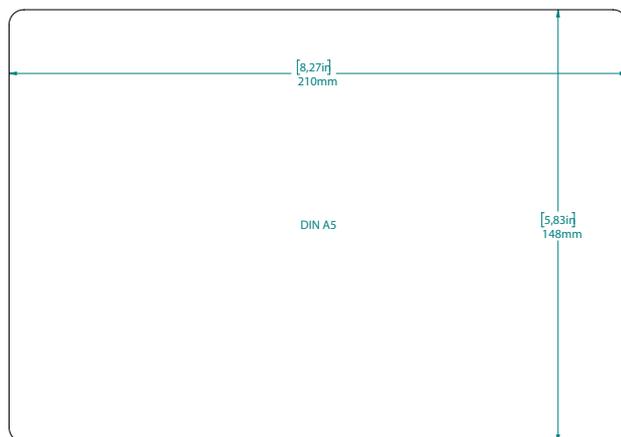
Picture 2:



Picture 3:



Dimensions



Manufacturer

PMK Mess- und Kommunikationstechnik GmbH
Koenigsteinerstrasse 98
65812 Bad Soden am Taunus, Germany

Phone: +49 (0) 6196 999 - 5000

Internet: www.pmk.de
E-Mail: sales@pmk.de

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