The world of PCB clamping

ClampMan

Edition 2, Mar. 2020
ClampMan Light is our entry level model.

It's mainly designed to clamp smaller PCBs or hold parts like relays, especially for soldering or repair.

It can also be used for tasks such as thermal imaging or with the optional top jaws for isolated measurements (ClampMan Light ISO).

It also enables fixing in many different positions with the same degrees of freedom as the ClampMan Classic does. So it also ensures nearly the same level of versatility for soldering, repair or assembly of printed circuit boards.

The base plate can support a maximum of four 300/400mm joint stands.

This product comprises the following parts:

<table>
<thead>
<tr>
<th>Product.Id</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLM-1118</td>
<td>Round base plate</td>
</tr>
<tr>
<td>106327</td>
<td>400mm joint stand</td>
</tr>
<tr>
<td>CLM-1200</td>
<td>ClampMan vice</td>
</tr>
</tbody>
</table>
Vice CLM-1200

Both hands free for soldering
ClampMan Light ISO is also an entry level model.

It’s mainly designed to clamp smaller PCBs, especially for isolated measuring. It can also be used for tasks such as thermal imaging.

A good combination is to use it with a probeholder or a thermal cam mounted on a second joint stand.

It also enables fixing in many different positions with the same degrees of freedom as the ClampMan Classic does. So it also ensures nearly the same level of versatility for soldering, repair or assembly of printed circuit boards.

The base plate can support a maximum of four 300/400mm joint stands.

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<tr>
<td>CLM-1207</td>
<td>2x Isolating Chuck</td>
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</table>
CLM-1207 Isolating Chucks

mounted on a vice CLM-1200 for isolated measuring
ClampMan Probe is also an entry level model.

It's mainly designed to probe where you can't use the ClampMan. For example to probe into an opened PC onto a measurement card or on PCBs, which are already mounted into a case.

A good combination is to use it with a vice mounted on a second joint stand.

It also enables fixing in many different positions with the same degrees of freedom as the ClampMan Classic does.

The base plate can support a maximum of four 300/400mm joint stands.

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<tr>
<td>CLM-1110</td>
<td>Probe holder</td>
</tr>
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</table>
Probe holder with adjustable pressure of probing tip

ClampMan Light And Probe in teamwork on a single base plate.
The ClampMan Midi is our medium model.

It's mainly designed to clamp midsize PCBs, especially for measuring or soldering. It can also be used for tasks such as thermal imaging.

It also enables fixing in many different positions with the same degrees of freedom as the ClampMan Classic does. So it also ensures the same level of versatility for soldering, repair or assembly of printed circuit boards.

The base plate can support a maximum of four 300/400mm joint stands.

The ClampMan Midi Plus includes a second joint stand (400er) and a probeholder.

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</tr>
<tr>
<td>104352</td>
<td>300mm joint stand</td>
</tr>
<tr>
<td>CLM-2002</td>
<td>Midi clamp</td>
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<td>CLM-1110</td>
<td>Probeholder</td>
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<tr>
<td>CLM-2002</td>
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The ClampMan itself is a perfect solution for fixing PCBs of various shapes and formats in a large variety of different ways.

Due to its flexible design it is possible to perfectly position each PCB for tasks such as measuring, soldering or thermal imaging.

ClampMan was especially designed to clamp energized PCBs while enabling safe measurements from both sides. This is very helpful for power electronic measurements like measuring the power factor or efficiency of a power supply.

The provided clamping accessories enable fixing of printed circuit boards in many different positions with multiple degrees of freedom. This ensures an unsurpassed level of versatility for soldering, repair or assembly of printed circuit boards.

This product is available in following editions:

<table>
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<tr>
<td>CLM-1001</td>
<td>ClampMan with 1 probing set (106328)</td>
</tr>
<tr>
<td>CLM-1002</td>
<td>ClampMan with 2 probing sets (106328)</td>
</tr>
</tbody>
</table>
Clamping set for multiple possibilities included
ClampMan integrates H&G’s precise hydraulic joint stands which have been highly valued in processing and medical engineering industries for decades.

These joint stands allow exact positioning of measurement probes or other equipment like thermal imaging cameras.

In its basic version ClampMan comes with one or two hydraulic probe holder ( CLM-1001, CLM-1002 ). Additional hydraulic joint stands are available as accessories.

Indispensable for ground clip probing!

Solid heavy-weight base stand, made of browned steel

Powerful hydraulic joint stands with quick change adapter for different tools or self-crafted gadgets available in 2 length
The vice mounted on the ClampMan using an additional base adapter "104500"
The Vice Box is a combination of an ESD toolbox (Model 40 or 50) made of stainless steel and a joint stand size 400 (106327) with an already mounted vice (CLM-1200) on the top.
This is an option

ESD Clip at the backside
Shortly after the ClampMan went into production we saw the necessity to enable the 400m joint stand to support not only probe holders but also other tools, like tweezers or self-crafted gadgets.

This was realized by introducing our quick-change adapters.
104599 - QC Adapter set for retrofitting (104500 + 104511)

104500 - QC Base Adapter  6mm thread (standard)
104502 - QC Base Adapter 10mm thread

104511 - QC Adapter to M6 inner thread
104514 - QC Adapter to M3 inner thread

104512 - QC Adapter 4side block, bores M5, M6 + M5 inner thread

104507 - QC Adapter to M4  outer thread  (b = 5 mm)
104508 - QC Adapter to M8  outer thread  (b = 7 mm)
104509 - QC Adapter to M10 outer thread  (b = 8 mm)
104510 - QC Adapter to M6  outer thread  (b = 6 mm)

104506 - QC Adapter to 1/4"-20 (Cam - adapter, Whitworth thread)  
(b = 5 mm)
The "Accessory Sets" or "Multifunctional Sets" exist to encourage you to realize your own ideas or gadgets. You are also able to expand the basic features of the ClampMan Classic itself with this sets.

CLM-1070 ClampMan Accessory Set Professional

1x CLM-1207

1x CLM-1200

2x 106327
400mm

1x CLM-1118

2x 1045
CLM-2010
ClampMan
Accessory Set
Professional Midi

1x CLM-2002

1x 104352
300mm

1x 106327
400mm

1x CLM-1118

2x 104507
2x 104508
2x 104509
2x 104510
2x 104500
2x 104511
2x 104512
2x 104506
Now you are able to mount tools like tweezers, vices, magnifying glasses and also cameras for documenting or thermal imaging.

Attaching a tweezer to 104512

craft your own toolset
mount a cam or cell phone holder with adapter 104506