

Item number: **PMF1450-K**

## Knob-handle Clamp kit for Spiderbeam 14m HD Fiberglass pole.

This “quick clamp” version with small blue plastic handles is highly UV-resistant and therefore perfect for all daytime activities, as well as for outdoor use in any weather, for weeks and months. The clamps themselves are made of stainless steel and are therefore safe and indestructible. However, if you want to leave your mast permanently installed outdoor for years, then choose the simple, more affordable, standard stainless steel clamps with rubber protection [Item No. PMF1450], because no plastic handle in the world can withstand years of UV exposure unscathed, even if the clamp bands (stainless steel threaded straps) will hold the mast forever. With these sturdy **blue knob handles** on the stainless steel clamps, however, you can securely fasten your pole for short and medium term use and **no longer need tools** for assembly and disassembly. Just like the standard tool-operated stainless steel clamps (hexagonal), these clamps -once fitted with the rubber padding- reliably prevent the individual segments of the fiberglass pole from sliding together unintentionally. The rubber padding also protects the mast and ensures a particularly secure grip against slipping. The clamps therefore only **need to be tightened with minimal force**. They are superior to all simple securing methods (adhesive tape, cable ties, plastic clamps, etc.). They hold the mast securely in place and are easy to install.

### Making the rubber padding

First, cut a suitable piece of flat rubber strip (15x3mm) and a piece of heat-shrink tubing (approx. 13mm diameter) for each of the clamps.

The approximate dimensions are listed in the table below..



Fiberglass pole segment	Knob clamp size	Length of flat rubber strip	Length of shrinking tube
„top“ 14	10 – 16 mm	35 mm	30 mm
13	12 – 22 mm	50 mm	35 mm
12	16 – 27 mm	60 mm	40 mm
11	20 – 32 mm	70 mm	45 mm
10	23 – 35 mm	85 mm	60 mm
9	25 – 40 mm	100 mm	75 mm
8	30 – 45 mm	110 mm	85 mm
7	30 – 45 mm	120 mm	95 mm
6	32 – 50 mm	135 mm	110 mm
5	40 – 60 mm	145 mm	120 mm
4	40 – 60 mm	160 mm	135 mm
3	50 – 70 mm	175 mm	140 mm
2	50 – 70 mm	190 mm	165 mm
„bottom“ 1 (logo print)	no clamp	no clamp	no clamp
<b>Required amount:</b>	<b>13 clamps</b>	<b>1435 mm</b>	<b>1135 mm</b>

Then open the clamps, straighten them, and place them on the corresponding flat rubber strip. The end with the housing and knob should be positioned as precisely as possible at the end of the rubber strip.



Then slide the heat-shrink tubing over it so that the flat rubber strip is visible on both sides. Please position the heat-shrink tubing about **15mm away from the screw housing** under the handle. If the flat strip gets stuck when inserted, gently moving it back and forth, using a lubricant, or using a tool such as tweezers or flat-nose pliers will help.



Next, heat the heat-shrink tubing with a heat gun or similar tool until the rubber flat cable and the clamp band are firmly shrunk and enclosed.

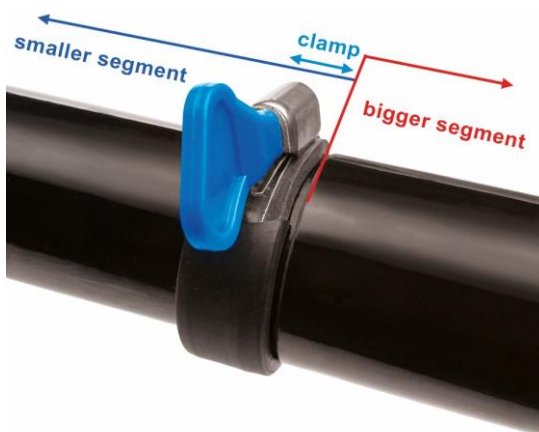
It is **important** to avoid unnecessary heating of the blue plastic handle, as this could cause the plastic to melt.

Then close the clamp again, and it's ready for use. If the heat-shrink tubing wrinkles at some point when closing the clamp, you can reheat it to smooth out the wrinkles without any trouble.



**Note:** All materials listed here are also available individually as accessories from us. If you need additional materials, they can be ordered in our online shop.

## Proper Installation of the Clamps



A clamp is **generally attached to the lower end of an** the steel of the clamps. The clamps generally do not need to extended tube segment. The clamp acts as a stopper there and prevents the tube segment from sliding down into the next larger tube segment. The rubber pad not only adheres to the surface but also protects the mast from any damage caused by **(should not) be tightened very strong**.

Thanks to the rubber pad, they adhere well to the mast and thus act as a **stopper**.

It is therefore the best to fasten the clamps with minimal force. With a slight pull and the rubber's grip, they are sufficient to prevent the smaller pipe segment from sliding down.

**Important Note:** Some customers misunderstand how to install the clamp.

Instead of using the clamp as a stopper, they mistakenly mount it on the upper end of the larger segment, attempting to squeeze the tube so tightly thinking "this way the next segment cannot slide down".

This is not the correct installation method; it will not hold and may damage the mast. The fiberglass-reinforced tube retains its flexibility and stability only if it is not squeezed or otherwise deformed. Squeezing or clamping it will cause it to break or crack at that point. We therefore reiterate the importance of correct installation -as described above- using the clamp as a stopper at the bottom of the smaller diameter segment.

By the way, when setting up the mast, first secure the bottom of the mast, for example to a post or other fix object. Then pull out segment by segment starting with the tip segment, while the pole stands up straight.

**Please also refer to the available information flyer with guying instructions for your mast.**

(Always available online under "Documents" on our homepage)

**An original product from Spiderbeam GmbH, Otto-von-Guericke-Str. 3, 03130 Spremberg, Germany**

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