

Universal Mast Clamp

February 2020

The Universal Mast Clamp (Fig 2.) is designed for use on new KIO hex beams and will also retrofit all older KIO hex beams. No holes need to be drilled for use on new or older hex beams. The new clamp will fit any size mast from 1.25 to 2.5 inches O.D.

The Universal Mast Clamp consists of two right angle brackets that are mounted back to back on the bottom of the base plate and two toothed clamp halves that are bolted together with four long threaded bolts. The mast which the hex beam is to be mounted on fits into the toothed clamp and the bolts are tightened. When the clamp halves are tightened, the back to back bracket halves will be tightened together also and the result is a very strong fixture for mounting the hex beam.

For older hex beams, Fig 1. shows the bottom of the base plate and an older style mast fixture that is to be replaced. The old bottom fixture must be removed and the old bolts re-used to attach the new Universal Clamp Assembly shown in Fig. 2.

On new hex beams where the Universal Mast Clamp has been ordered with the hex beam, there will be no fixture on the bottom of the base plate but the bolts securing the top center post flange will be visible. These bolts should be loosened so the Universal Mast Clamp can be affixed using these same bolts. The vinyl coating which protected the finish of the parts during manufacture can be removed if desired or left on. The steps for assembly and installation of the clamp follow:

1. Fasten the two bracket halves to the base plate using the four middle flange nuts on the bottom of the base plate. It will be easier to remove only two of the bottom flange bolts and install one of the two halves at a time so the other two bolts can continue to hold the top flange and center post in place temporarily.
2. The halves should be back to back. Do not tighten the halves until the clamp has been installed so the long tap bolts will fit more easily into the bracket holes.
3. Assemble the clamp halves to the bracket using the four long tap bolts provided. Use two flat washers, one lock washer and one nut for each tap bolt as shown in Fig. 4.
4. Tighten the bracket halves to the base plate very tightly. The halves will not be flush with each other initially but will pull together when the bracket is secured to your mast.

The Universal Mast Clamp is now ready for installation of the hex beam on your mast as shown in Fig. 3.

Fig 1.

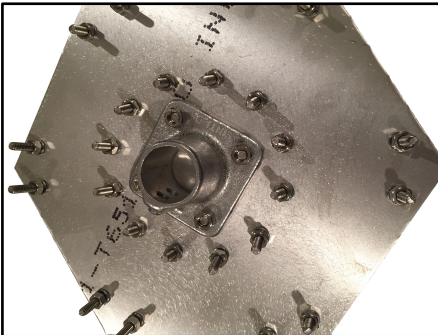


Fig 2.

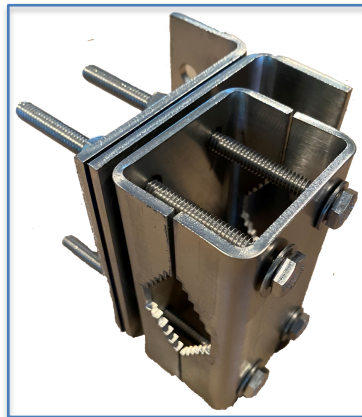


Fig 3.

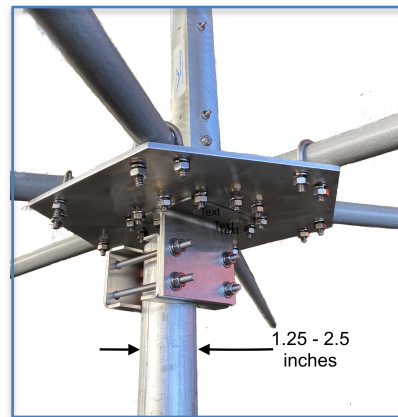


Fig 4.

