

## How a Telescopic factory develops a new Patent Steel Extension pole EPS-108

EPS-108 is one of our new designed type of Steel Telescopic Pole, which is positioning to low market than Al or Fiber-Al pole, the Pipe material is steel coated in paint powder. I will tell you what is the new technology on this model we have created?

1, How Extentool solve quick lock and open function for Fiber-Al telescopic pole?

Extentool absorb the advantage of a common Tripod Leg using flip locking clamp system configuration instead of traditional Out/In-Twist locking. Then we designed this new model of Al telescopic pole.

2, How can Extentool get operation locking lever comfortable?

We design a new shape of flipping-Lever with Ergonomics which makes operation with mild strength but with stronger clamping!

3, How much strength a Telescopic Pole could bear.

As a paint roller handle or cleaning tool handle, it could bear over 20kgf at folded condition, and 10kgf at extending condition. So it could be used for many painting and cleaning condition.

5, No inferior material, even though a low end pole

As a pole expert, we're clear with an acme strength could be the key point determines a pole quality. So we choose Higher end Nylon material as Acme Thread against other producer, which can be more firm and wearable than common PP material Threads. which could be little risk of broken and long term used, could be guaranteed at least 5 years!

6, Another Key point of Material selection

Clamp is an important configuration of a pole, so we also use Nylon as the material to inject a clamp, which could be no risk of broken and long term used, could be guaranteed at least 5 years!

6, Why Extentool choose rubber cover with grooves end?

We make grooves since they can be used as a rod to set between two walls or objects, grooves can provide larger friction when pole loaded pressure, which could prevent pole end from sliding.

As a professional Telescopic Pole manufacturer, it's our obligation to create new good operation and function product for our customer and client. It took at least half a year to analyze market, research, design and develop this NEW model.

Therefore Engineer John strongly recommend it's worthy of you to take this new product into your country and market for your honest users!

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### Product development story:

Creation of using clamping locking on Steel Pole, this is an amazing idea which is from our EPA-104 model. How did we get this realistic, we did this, but really not easy!

You know Steel Extension pole is looked as a low end pole, which can't only be looked as an inferior product. With similar function as EPA-104, but with lower cost, 2 points is: Pole should be light weight, so tubes can not be thicker. Outer tube thickness is 0.32mm, inner tube thickness is 0.3mm.

At the beginning of sampling, we faced 2 problems, one is with mild lever strength, clamping pressure is too small to lock inner tube, the other is if we make Locking block thicker, locking strength is getting improved, but there is very obvious sinking on inner tube after locking. Through many times of testing and research, we found the plastic bush inside of clamp we used is too thin, we should make it thicker which could supply more strength to support tube from sinking, this improvement solves the two problems at one time. So after that the pole has been successfully developed! This pole has been selling very well all along in the America market.