

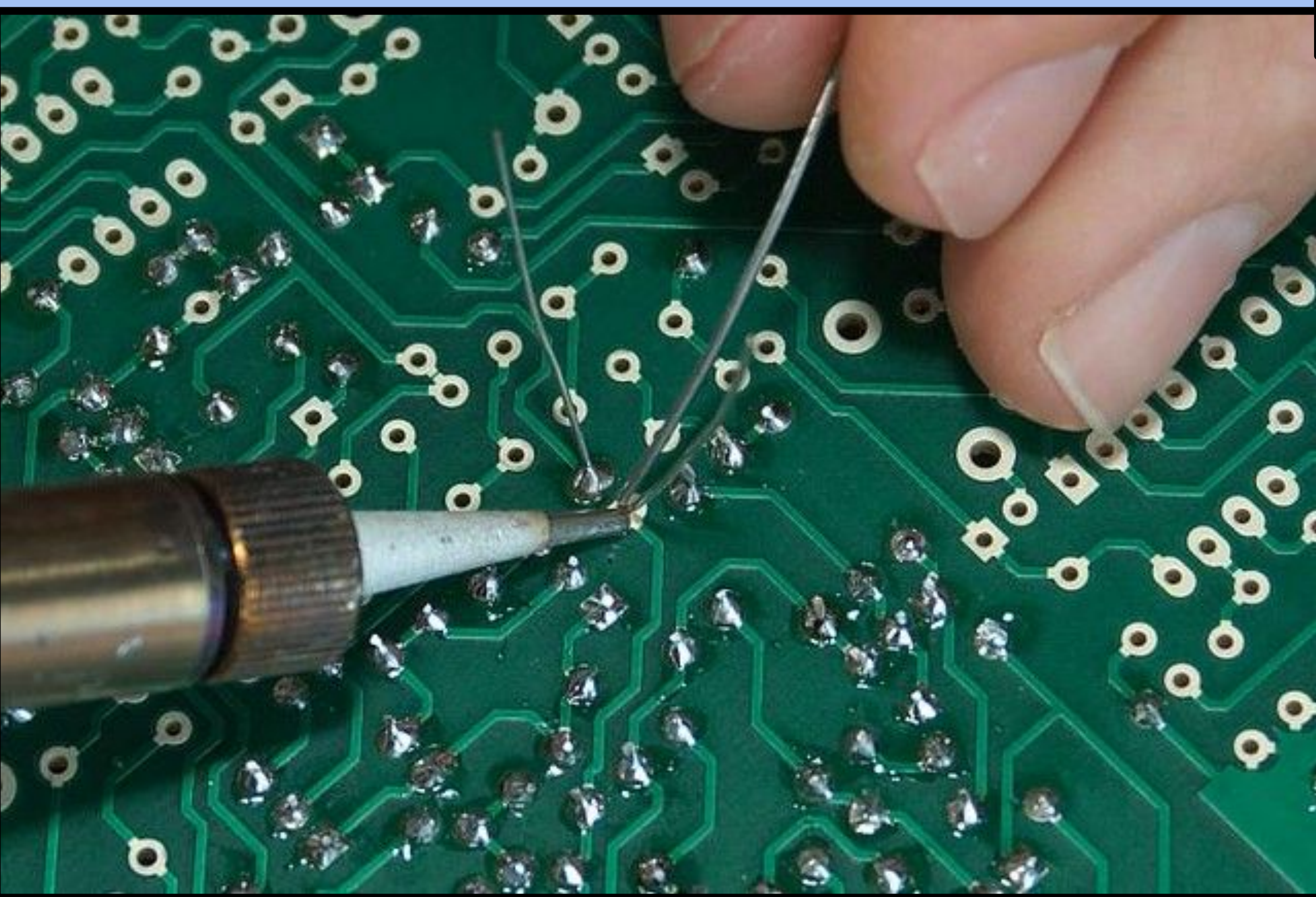
Soldering



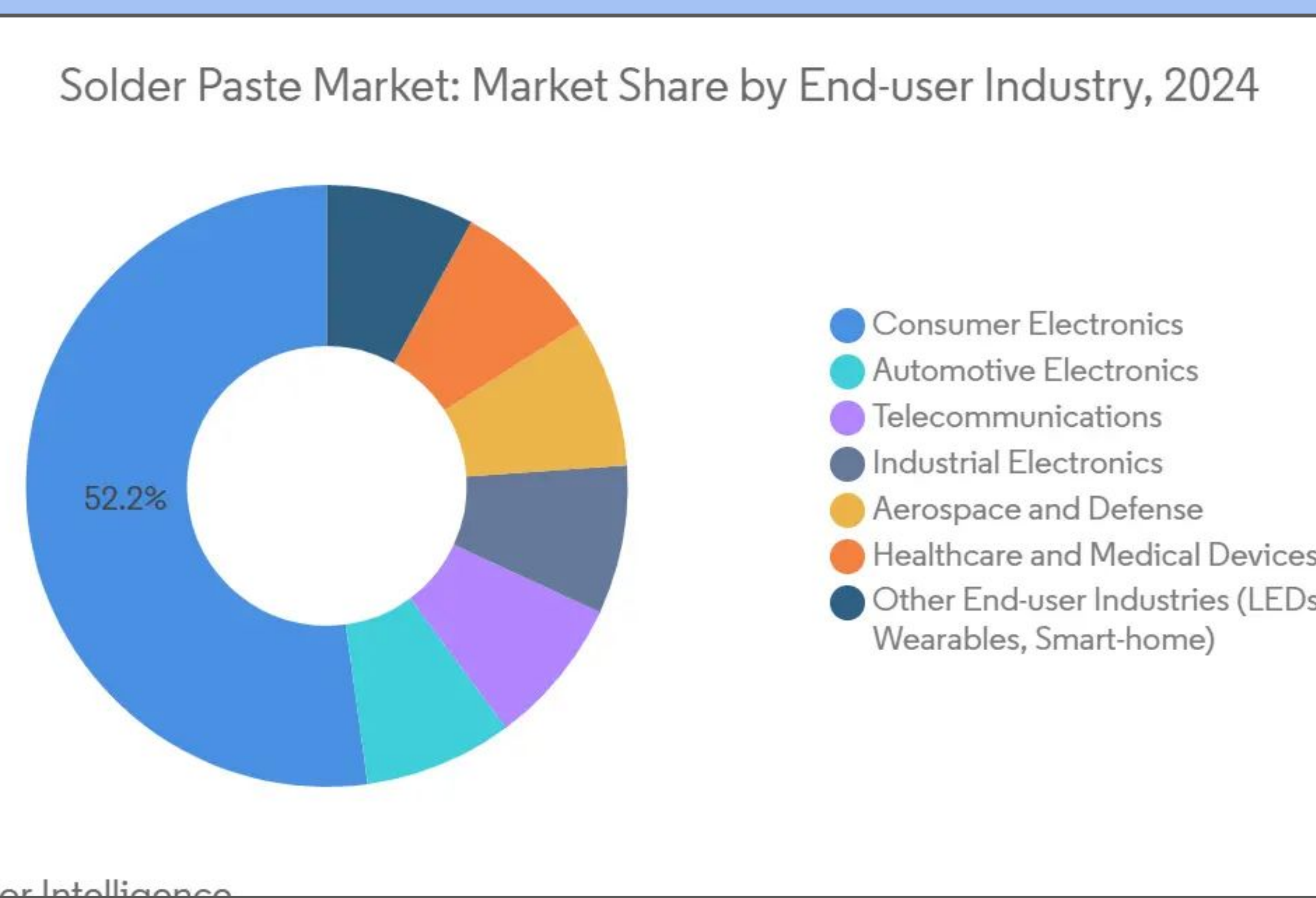
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These are some soldering tools that include the soldering iron in red, the solder with a yellow cap and cleaners for the timp made of brass



The soldering iron heats up,it melts the solder to wherever the user touches it to, removing the solder from the soldering iron creates the joing



This is a pie chart from Morder Intelligence that breaks down the most common uses of solder based on how much it was bought

What Is Soldering?

Soldering is a process, similar to welding in some ways, where metal is joined together. It is joined by a metal alloy called solder. To place the solder anywhere it is melted with a soldering iron. Once the solder is placed, it is called a joint, and unlike welding it is easy to remove.

Why do we Solder?

Soldering is important, but why? There are a few good reasons:

- To join electrical components
- Join pipes in plumbing
- The fixing of delicate metal parts

What are Different Kinds of Soldering?

There are three different kinds of soldering typically used:

- Soft Soldering (this is the most used method, usually seen in electrical joint and plumbing)
- Hard Soldering (this is done hat higher temperatures and with stronger alloys of solder)
- Brazing (this uses the highest temperatures around 450-600° C, and creates the strongest joints)

Sources

- <https://www.twi-global.com/technical-knowledge/faqs/what-is-soldering>
- <https://www.mordorintelligence.com/industry-reports/solder-paste-market>