

# **ULTIMHEAT®UNIVERSITY**

How to use correctly hand tools Comment utiliser correctement les outils à main



English proverb: "Bad workers always blame their tools"
French proverb: "Good workers take care of their tools"
Chinese proverb "To do good work, one must first have good tools."

JPCI general quality rule:

4.7/ Polish or modify screwdrivers or small tools by anybody are prohibited.

4.9.2 Workers must have special care of equipment they use to avoid to destroy, scratch, break, etc... by misuse or mishandling.

Introduction
It is the responsibility of every worker to take care of their hand tools, and to ask for replacement if the tool is deteriorated, over used or broken. Our customers are very strict on the product appearance, and even if the hand tool is still working, it must be changed if there is any risk of product deterioration. Some examples here under

Screw drivers and screw drivers tips
Screws are small, with small slots and require screwdrivers to be made of hardened and tempered steel or surface hardened to be strong enough to apply sufficient torque to the screw without Customers cannot accept the look of chewed and mauled screw heads. However, this form of damage can be easily avoided with a little bit of care and pride in your work.

So the screw driver tip must:

- Be heaf treated and tempered. This is the first reason why nobody is allowed to grind a screw driver tip: improper grinding will remove the heat treatment and the tip will loose its strength and hardness.
- -Be shaped correctly to maximize strength for its given size. And minimize damage to the screw head slot, both for aesthetic reasons and also to allow the screw to be tightened correctly and be left in a condition where it can be undone again without risk of screwdriver slippage. This is the second reason why grinding a screw driver tip is not allowed. Any change in the tip size will damage the screw head slot.
- Adapted to the screw head size and slot form; It is vital to ensure that the size of the screwdriver tip matches exactly the size of the slot in the screw. Fit screwdriver tip width and
- -Adapted to the screw head size and slot form: It is vital to ensure that the size of the screwdriver tip matches exactly the size of the slot in the screw. Fit screwdriver tip width and thickness to fastener slot size.

  In the case of a flat tip, blade width must be equal to the diameter of the screw and the tip of the screwdriver fits snugly into the slot. That way, the torque is distributed across as much slot as possible, minimizing the possibility of burring up the slot and disfiguring it.

  In the case of the crosshead screw, Be careful not to confuse a Phillips head with other "cross point" heads like Pozidriv. They are not interchangeable. If a screwdriver that is not the right size and type for the screw is used, it will damage the screw.

  There are four basic sizes in each model:

  For Phillips screws they are: PHO, PHI, PH2, PH3.

  For Pozidriv screws, they are: PZD0, PZD1, PZD2.

  Do not drive a Phillips or Pozidriv screw with a conventional flat screwdriver.

Slot head

- -Used correctly:

  -When tightening a screw, press the head hard into the screw, to avoid damaging the screw.

  -The screwdriver must be held parallel to the vertical axis of the screw; it should never be tilted, for the tip may slide or jump out of the slot. A bent screwdriver blade cannot be kept in line with the axis of the screw and therefore should never be used.

  -It must be kept centered in the slot. Any shifting of the blade will result in its slipping out of the slot. When using a screwdriver keep your hands behind the tip of the blade. If the screwdriver should slip it is very likely to do scrious damage to the hand in front of it.

  -Don't use pliers on the handle of a screwdriver to get extra turning power.

  -Keep the screwdriver handle clean; a greasy handle is apt to cause an accident.

## Main screw heads used in JPCI .JPCI: Recessed cross heads









