

EVS PRESS

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World Class Precision Sheet Metal Fabricators

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VIPROS 358 KING

As many of you may know, punching and/or laser cutting is the first step in the manufacturing process of a precision sheet metal part. This is how we create the holes, cut-outs, and profile of the part. The consistent operation of our turret punch presses and laser cutting center are essential in supplying the rest of the shop with flat parts ready for graining, forming, finishing etc.... In July we took delivery of a new Amada Vipros 358 King. The Vipros King is undoubtedly the hottest turret punch press on the market today. It sports a programmable hydraulic ram stroke that is fast, quiet, and promotes increased tool life by lessening impact. The automatic tool lubrication system also helps maximize tool life while reducing maintenance. It is capable of handling a 50"X80" sheet, suspended on a brush table to minimize part scratching, at lightning speed. All of this while offering incredible reliability and accuracy. Come visit EVS Metal and see it run!



BRAIN CANDY

You want to send a valuable object to a friend. You have a suitable box with a large hasp, and several locks with keys to secure it, but your friend does not have the key to any of your locks. How do you do it. (You cannot send a key in an unlocked box since it might be copied).

ANSWER:
Attach a lock to the hasp. Send it to your friend. Your friend attaches their own lock and returns the box to you. You remove your lock and return the box to your friend.

EVS METAL OFFERS ASSEMBLY

At EVS Metal we understand that different customers prefer that their fabricated metal parts to be delivered in differing states of completion. In many cases EVS Metal has been supplying precision sheet metal parts to customers, only to have our customer send it back out for assembly or other secondary processes. We realize that this can be costly and time consuming. We are happy to announce that EVS Metal is now offering electro-mechanical assembly services. In addition to hardware insertion, we are now able to install eyelets, solder connectors, and install circuit boards. As always we can have your parts painted, plated, and screened. We can also assemble the chassis components and pack them in your own custom packaging, providing you with turnkey manufacturing of your sheet metal based products. If you have any questions about any of our assembly services, give us a call.

Fab Facts

By Tom Supko

As sheet metal continues to be the preferred material in the design of electronic components, one of the most common concerns facing engineers is the need for threads in assembly. We at EVS Metal are always looking for threading solutions that will satisfy all the deciding factors including: creating enough threads to insure adequate engagement, keeping secondary operations to a minimum, and making sure the threading solution is cost effective. The most common options are to punch and thread, punch, then extrude and thread, or install threaded fasteners such as self clinching fasteners or weld nuts. Threading a punched hole is only effective when the material is thick enough for adequate threads. As an example, a #6-32 thread (32 threads per inch) cut into .031 thick material will only provide one full thread. This is usually not sufficient. Extrusions offer more thread engagement, however they require expensive tooling exclusive to one diameter and material thickness. The most logical solution is the use of threaded fasteners. Weld nuts are welded to the parent material using a spot or tack weld. They provide a permanent thread with relatively fast installation time, however they are only available in a limited variety, are more expensive to install than self clinching fasteners, and are not as accurate. Self-clinching fasteners are pressed in using the downward force of a hydraulic press. These fasteners are quite inexpensive, install in seconds, provide permanent threads, and are available in a wide variety to suit virtually any requirement. In addition, self-clinching fasteners are designed for use in material as thin as .020. EVS Metal uses state of the art automatic installation presses that provide installation rates of up to 20 fasteners per minute, depending on part size and complexity. For further information on fasteners, give us a call.

World Class Quote

From an astronaut, in his capsule ready for launch. "How do you feel?" A reporter asked. "How would you feel," the astronaut replied, "if you were sitting on top of 150,000 parts, each supplied by the lowest bidder?"

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World class precision sheet metal fabricating