



PANEL FABRICATION

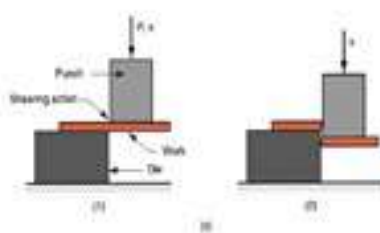
- Panel fabrication is the creation of metal structures by cutting, bending & assembling processes.
- It is a value-added process involving the creation of machines, parts, and structures from various raw materials.
- As with other manufacturing process both human labor and automation are commonly used. A fabricated product may be called a fabrication.
- Once we understand what kind of box we need to make (switchgear enclosure control cabinet, panel trim) the environment it's going to be operating in, & any customer specific constraints, we can get to work.
- Our fabrication process has four basic steps designing, fabrication (sheet cutting, folding & welding) and powder coating.
- After Quality Control review, we determine the earliest potential production start date.

Following steps are done during panel fabrication

1. Cutting & Notching

It is done by shearing, (or) chiselling via numerical control (CNC) cutters (using a laser, mill bits, or water jet)

Shearing

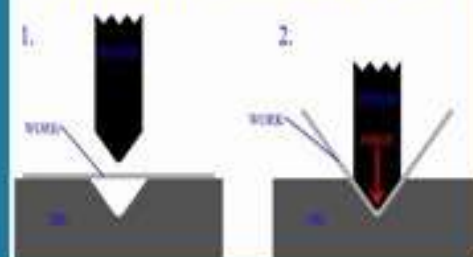


Basic sheet metalworking operations: (c) shearing

2. Bending

It is done by hammering via press brakes and similar tools. CNC controlled back gauges use hard stops to position cut parts to place bend lines in the specific positions.

SHEET METAL BENDING WITH A V DIE



3. Assembly

Assembling (joining of pieces) done by welding. sheet metal are the usual materials for fabrication welding wire, flux and/or fasteners are used to join the cut pieces.

