“DILEMA TO GET GOOD WELD”

by:

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“Everything happens for a reason” as they say. Every work piece in our daily lives is facing many problems but there is a solution for everything you do. Like in arc welding, especially SMAW many defects will occur before, during and after your welding process. Maybe because of your attitude, stroke, setting of the machine amperes, preparation of steel plate and the condition of the work place. We have to consider many factors in the operation of welding processes. The operator, work place and so on.

First is the operator, you must be well prepared, use all the PPE gadgets, before the operation process, not only literally but also intellectually you should be in good condition. Second is the work place, it must be safe and no interruptions in the field. Third is the setting of the welding machine, which depends on the thickness of plate and the position of the operation process. And as well with the stroke, you need not be so fast in manipulating the holder, proper position of body and the steadiness of the hands during the operation. And of course the steel plate must be clean from dirt. Lastly is the condition of workplace, you need to cover the place properly with no extreme air that will ruin your weld operation.

If you obey all the rules you will absolutely get a good weld. But talking about the defects in weld plate, there are many kinds of it. First is the poor fusion, this problem occurs because of the distance between the tip of the electrode and the base plate, next is the porosity, due to strong or excess air it will destroy the weld pool, and the spatters, which come from the bad setting of machine and the bad condition of the electrode. As well as the cracks in the plate suddenly coming from weld operation the weld plate must not get wet or must not put into the water, or else it will destroy the
base plate. Lastly is the incomplete penetration, the cause of this defect is the poor manipulation of the welding holder and the position of the tip of electrode when it strikes in the arc while in motion with the molten metal. If we know all the remedies in all the defects in welding process you will get a good weld profile.

References:

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