# FABRICATION OF WELDING SLAG CLEANING MACHINE

**Synopsis**

Welding is the process of joining of two materials by using filler rod, while joining the materials the high amount of heat is generated in welding surface, so oxidation can take place over the job, in order to prevent the oxidation the flux material is coated over the welded area

This flux coating is removed while send to the job for next operation like machining, painting etc, but it a terries process to clean the flux manually, and it need huge amount of skilled labor, in order to avoid that welding slag cleaning machine is used. This machine has a circular wire brush which is mounted over the shaft; this shaft is connected with electric motor

The job is hold in the fixture, this fixture setup is moved by rack and pinion arrangement ,so by this too and fro motion job will move front and back againsed the job ,so job will automatically cleaned easily.

**ADVANTADVANTAGES:**

1. Production cost is very low.

2. No need of purchase special machine.

 3. It is mainly very useful to hold the lengthy plate(1.5 feet) in particular position.

5. Its operated and maintenance is simple.

 6. It is compact and portable.

 7. It can be efficiently used.

 8. It is simple and rigid in construction.

 9. Manufacturing cost in lesser than other cleaning machine.

**DISADVANTAGE:**

 1. Small vibration occurs due to wire brush wheel attachment.

 2. In order to avoid vibration the machine should be properly                               foundation with the floor.

 **Application:**

This device find place in.

1.It is used almost in all types if industries (Large , Small & medium scale industries ).

2.This machine is mainly used in manufacturing - oriented industries.

3.This device is suitable to hold flat type plate. (maximum length1.5 feet)