

TEACHING LEARNING **MATERIAL**



BRANCH: MECHANICAL ENGINEERING

SEMESTER: 3RD SEMESTER

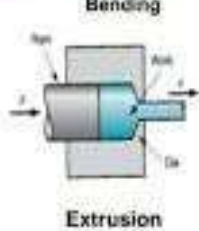
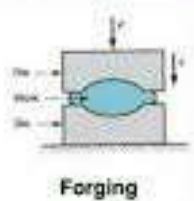
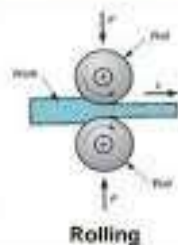
SUBJECT: PRODUCTION TECHNOLOGY

PREPARED BY: ER. JAGNYA PRASAD BEHERA
PROF. SOMANATH BHUTIA

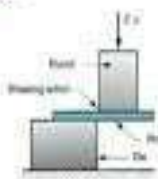
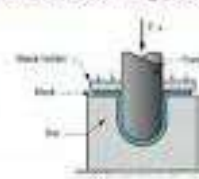
METAL FORMING PROCESS

Types and Classification

Classification of basic bulk forming processes

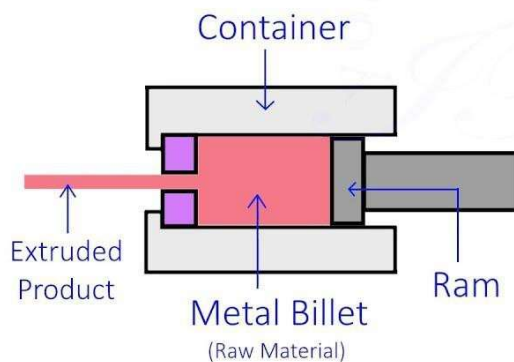


Classification of basic sheet forming processes

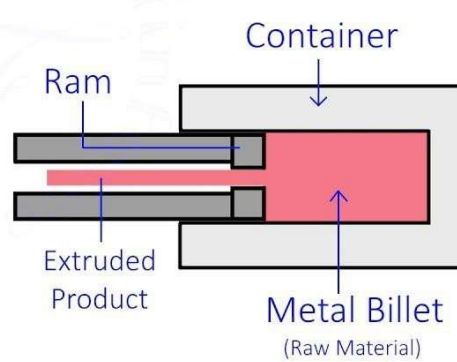


METAL FORMING PROCESS

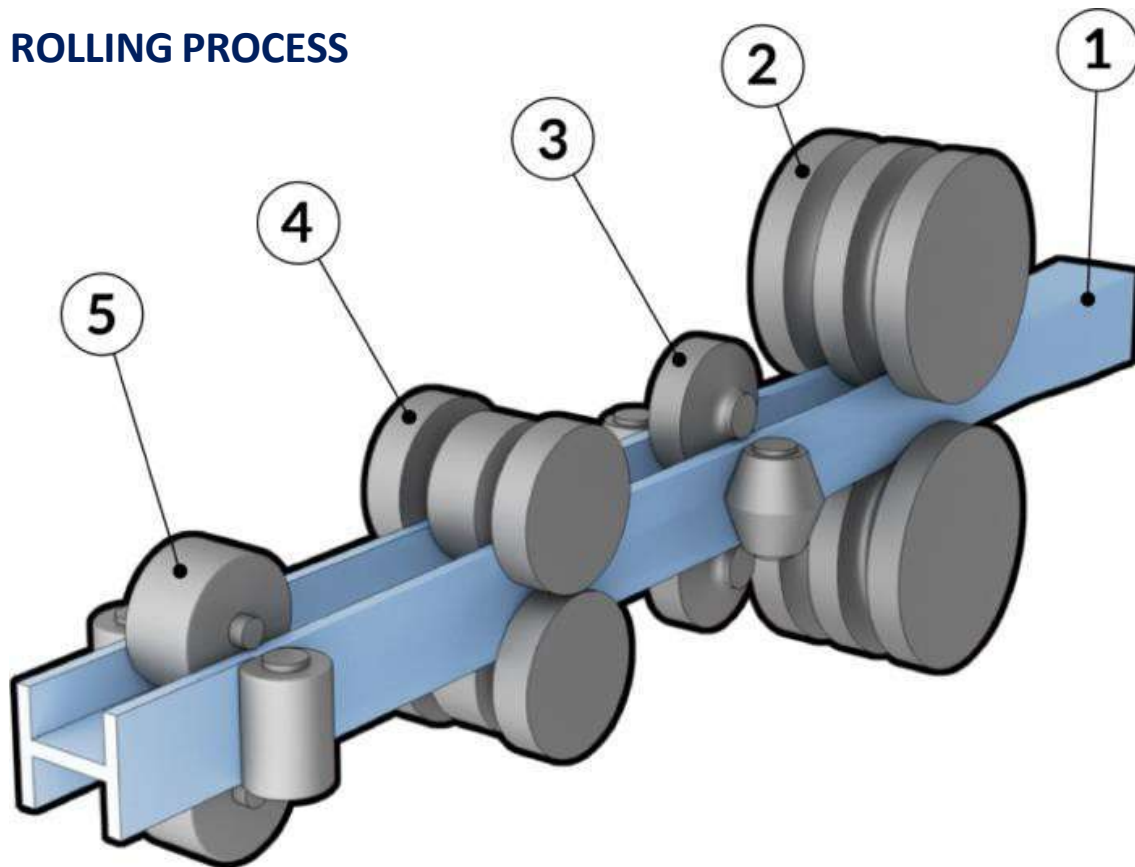
Direct Extrusion



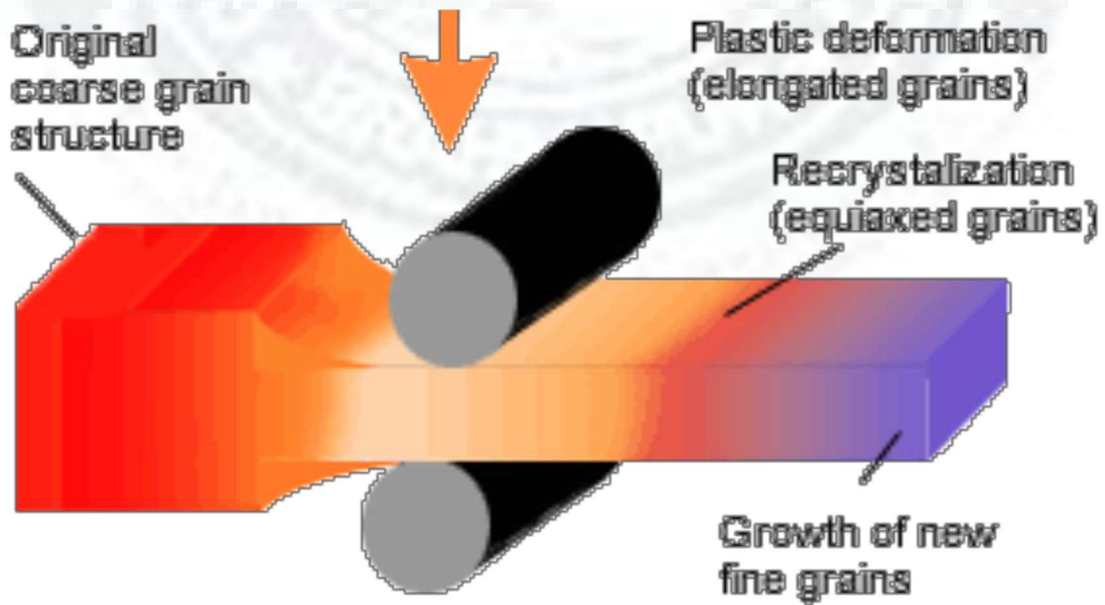
Indirect Extrusion



ROLLING PROCESS



MANUFACTURINGGUIDE



HOT ROLLING



HOT ROLLING

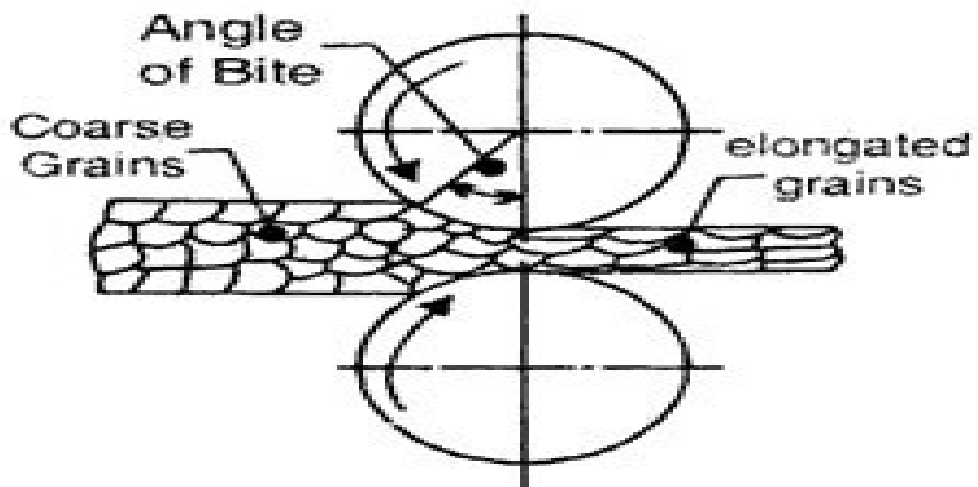


Fig. 2.7. Cold rolling.

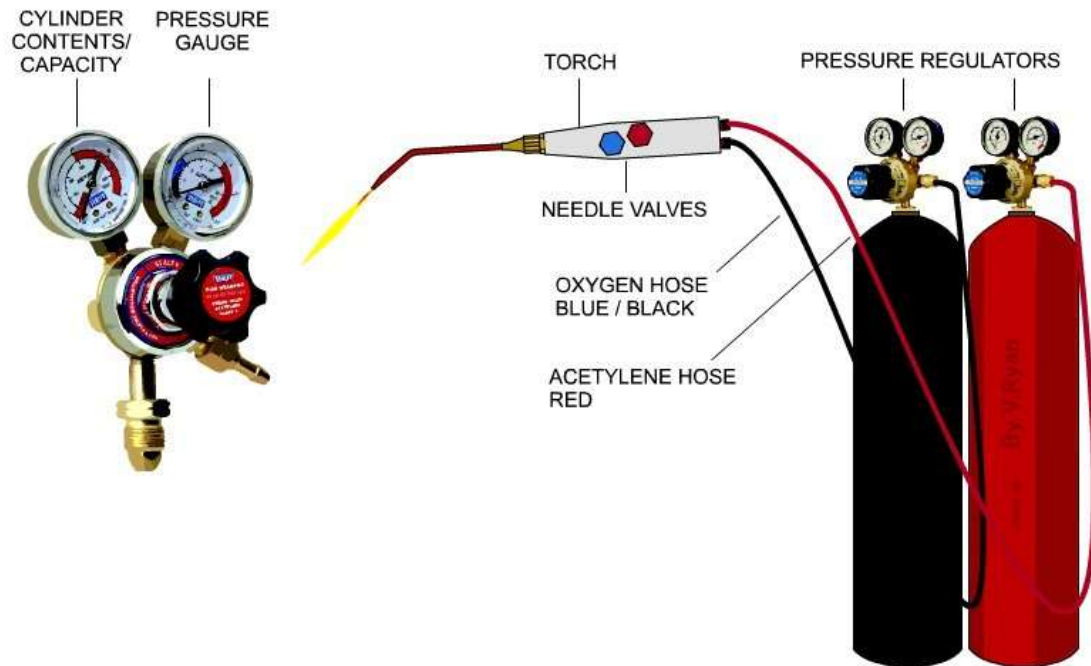
COLD ROLLING



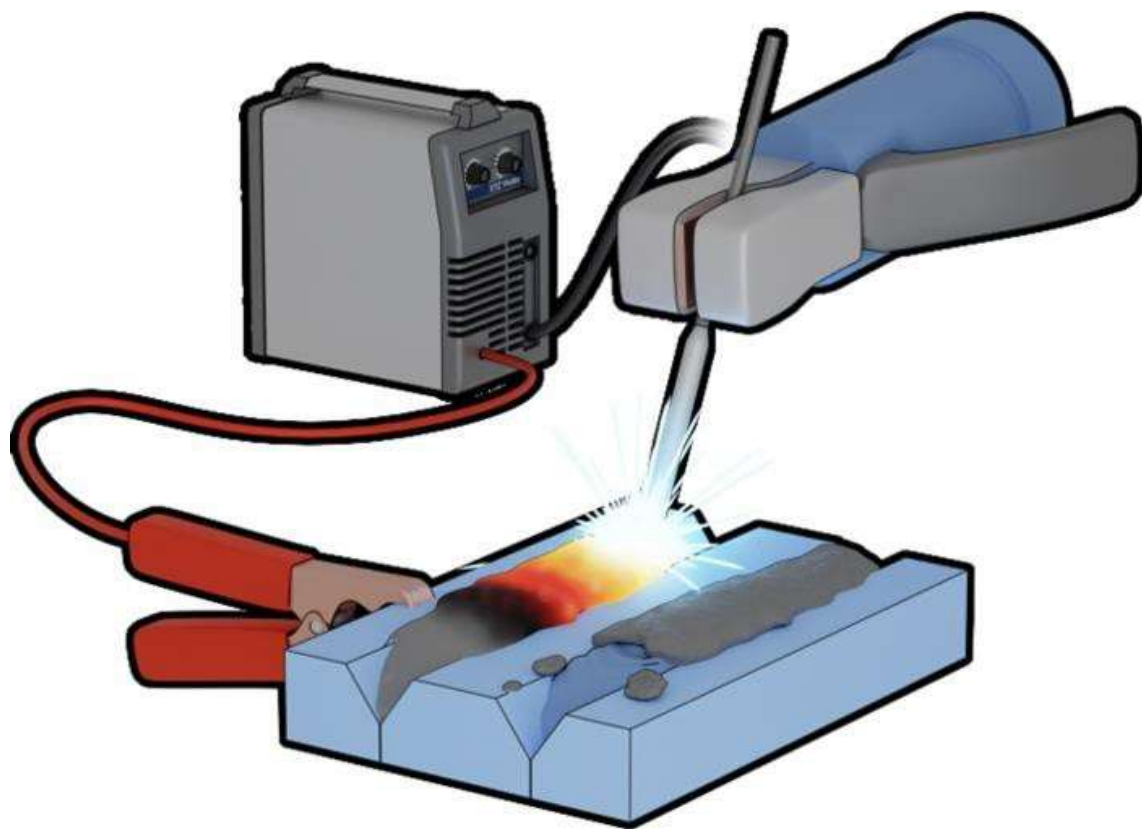
COLD ROLLING



ROLLING MILL



oxy acetylene welding

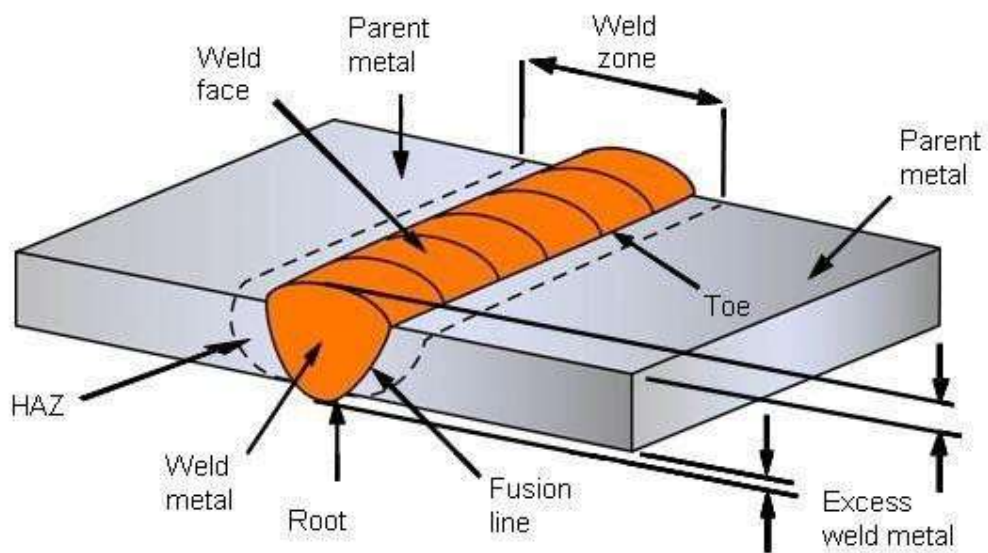


MANUFACTURINGGUIDE

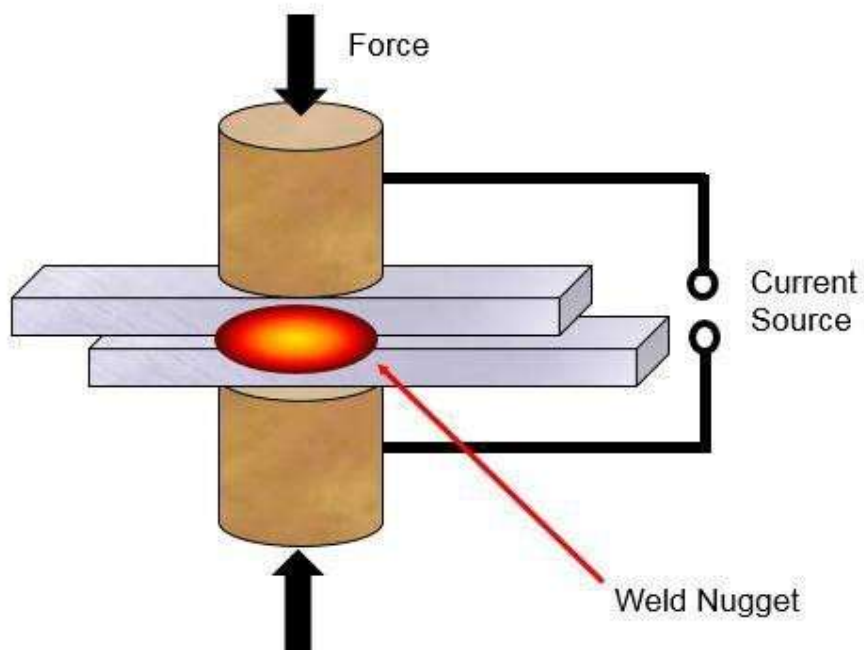
ARC WELDING



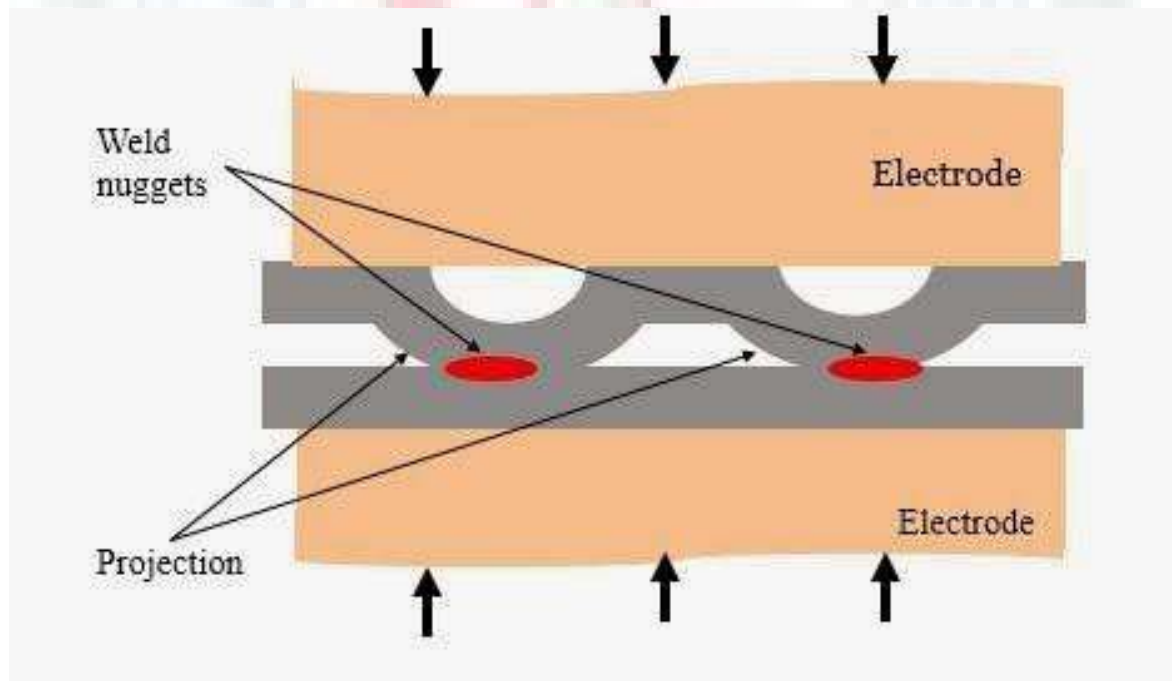
RESISTANCE WELDING



BUTT WELDING

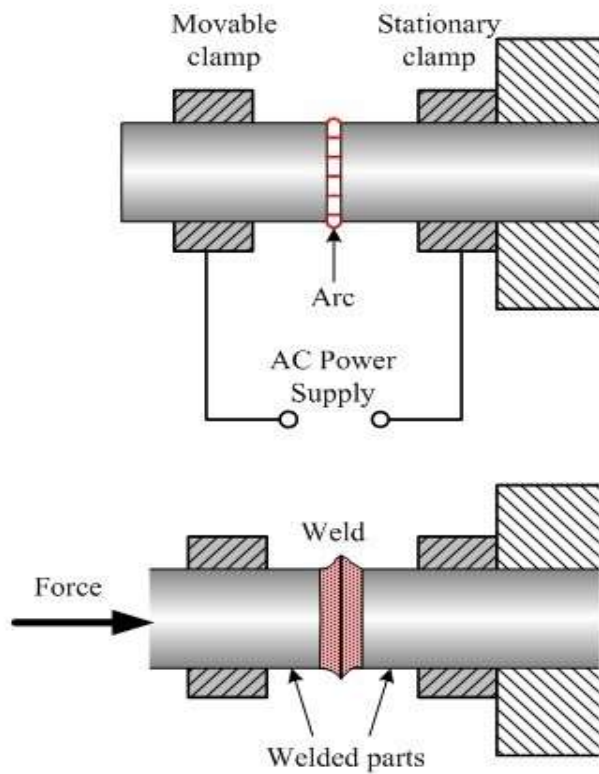


SPOT WELDING



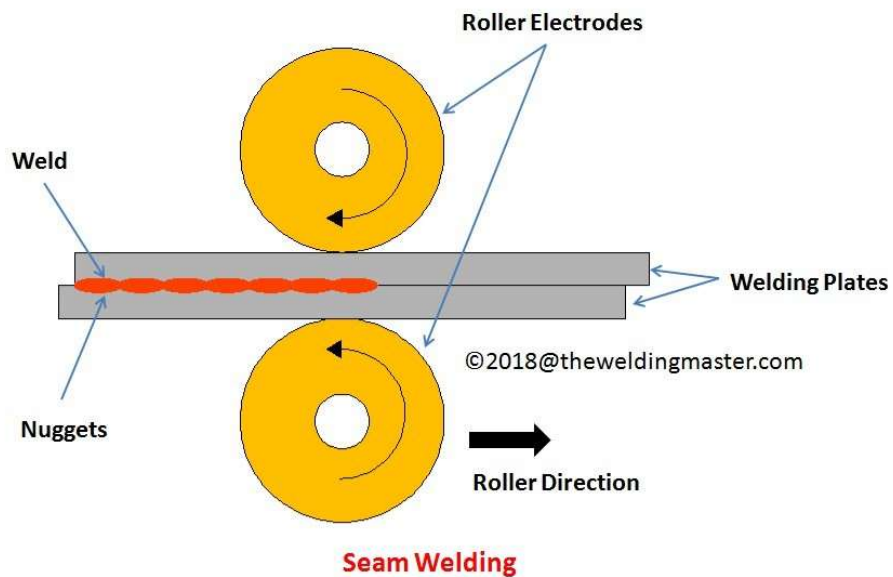
PROJECTION WELDING

Flash Welding (FW)



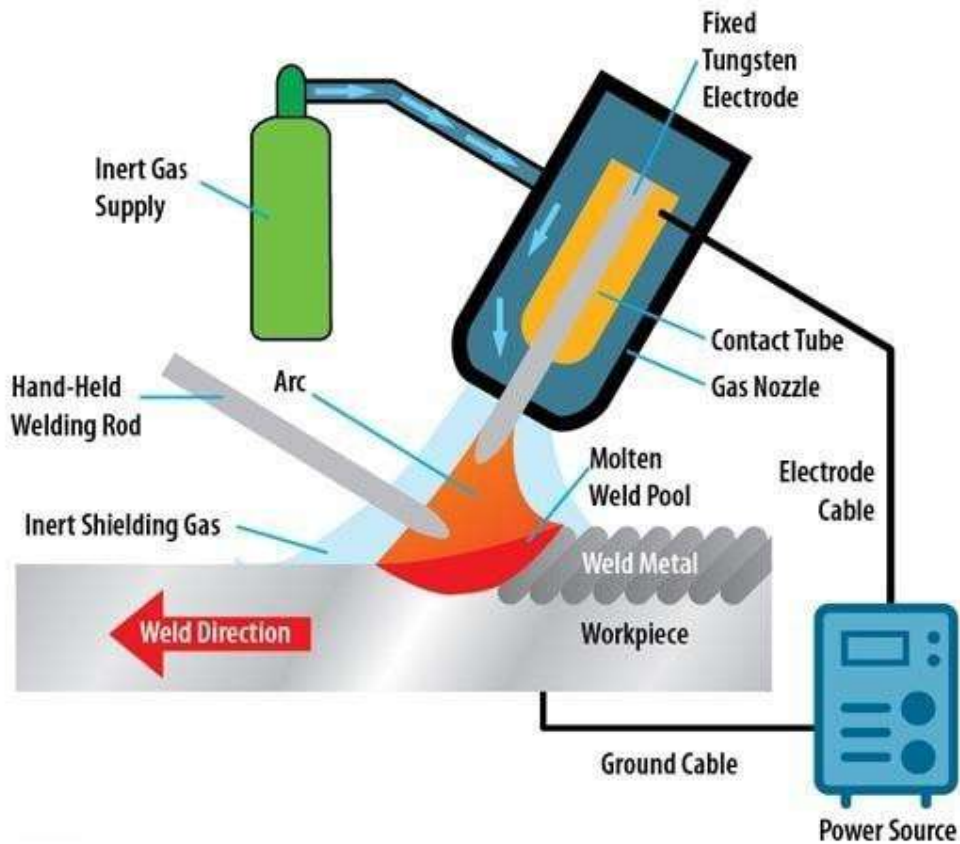
www.substech.com

FLASH WELDING



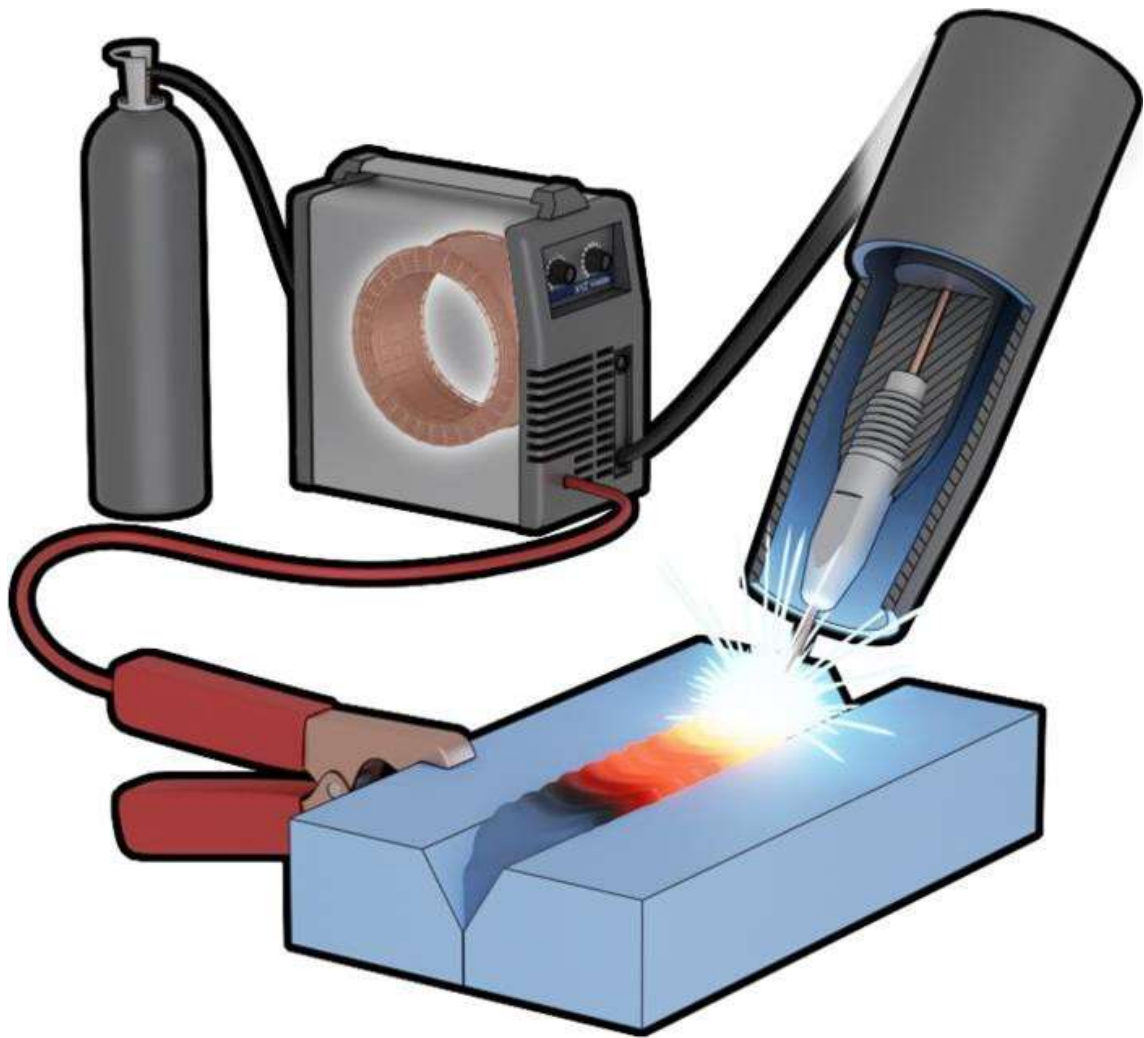
SEAM WELDING

Gas Tungsten Arc Welding (GTAW) AKA Tungsten Inert Gas (TIG) Welding



TIG WELDING





 **MANUFACTURING**GUIDE

MIG WELDING

COMMON WELD DEFECTS

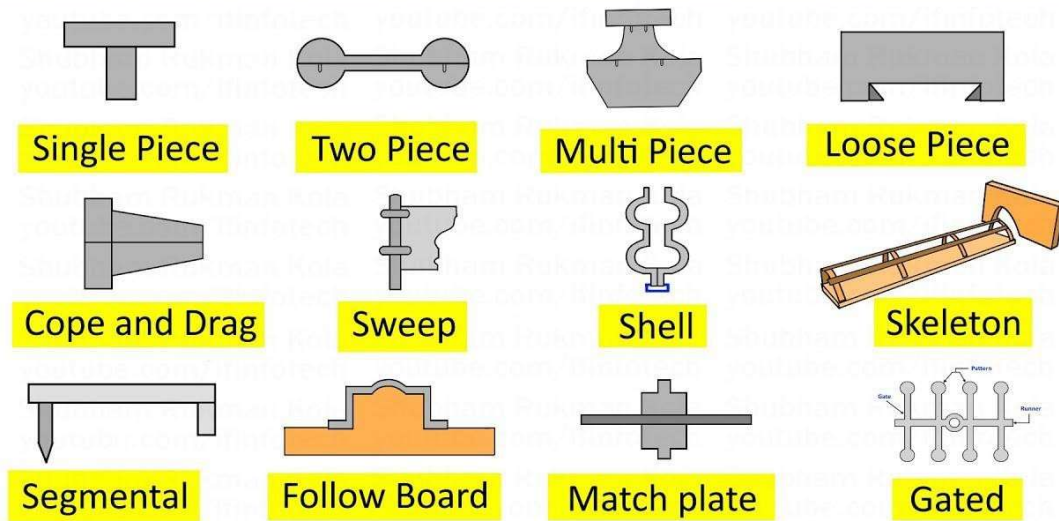


WELDING DEFECTS



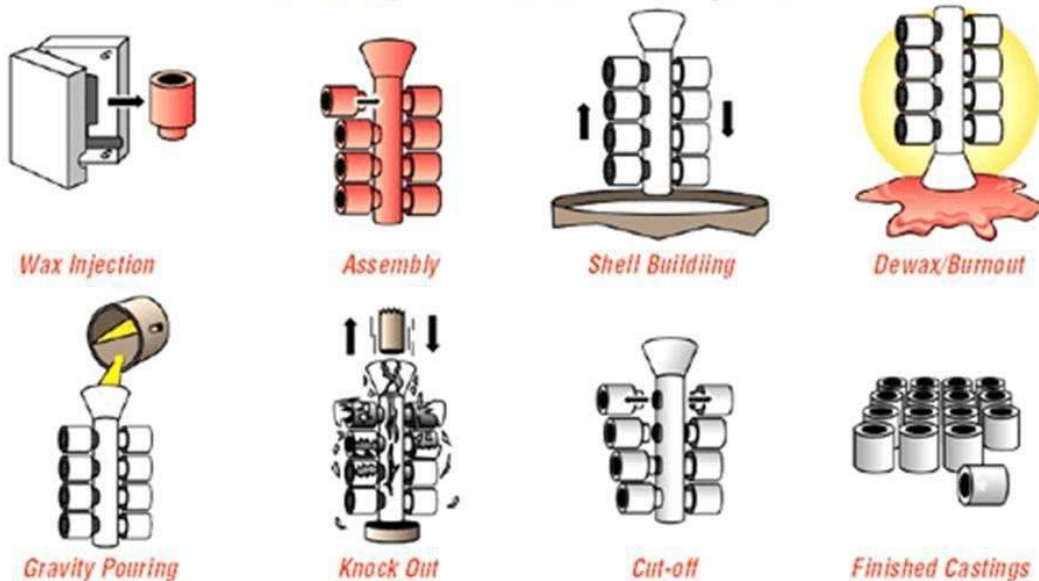
SAND CASTING

Types of Pattern



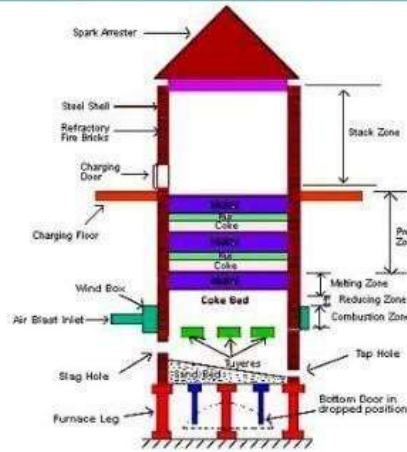
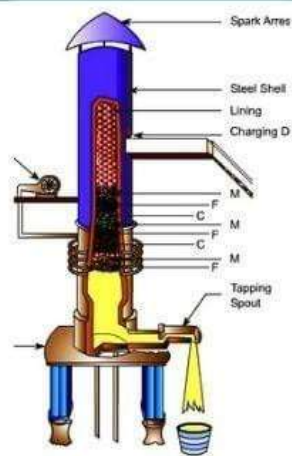
TYPES OF PATTERN

The Basic Steps in the Investment Casting Process

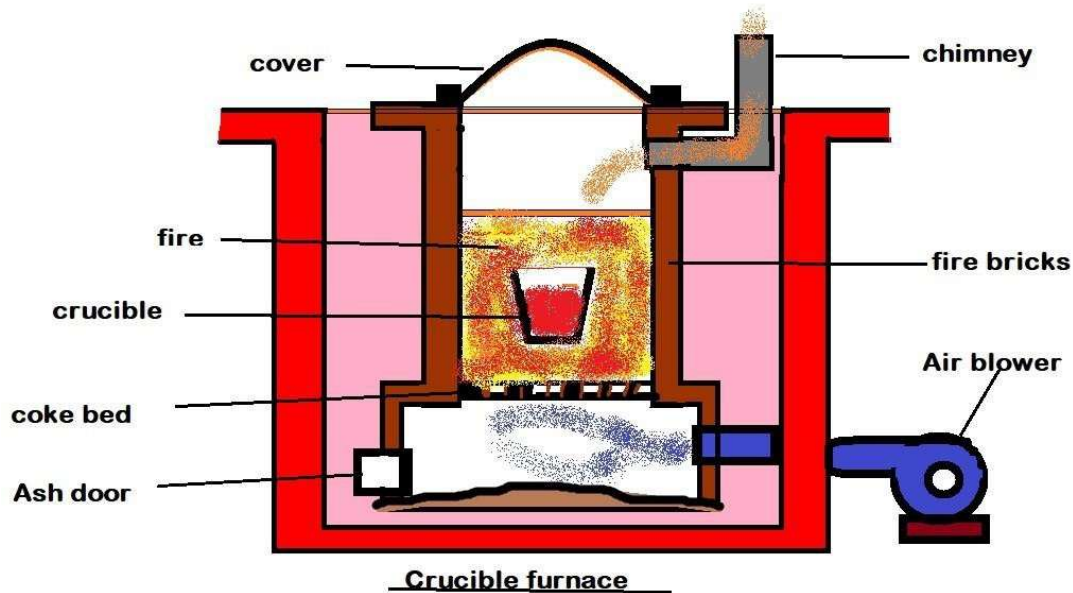


Investment Casting

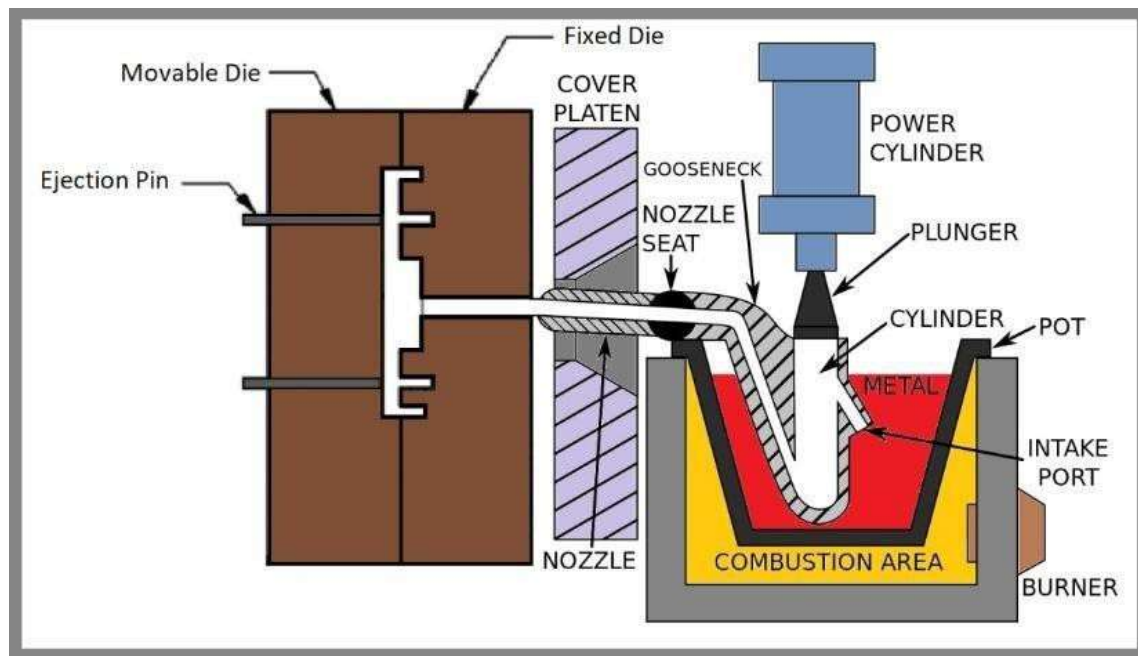
What is Cupola Furnace? | Cupola furnace design | Cupola construction | Purpose of cupola | Working Principle of Cupola Furnace: | Advantages of Cupola Furnace | Disadvantages of Cupola Furnace | Applications of Cupola Furnace



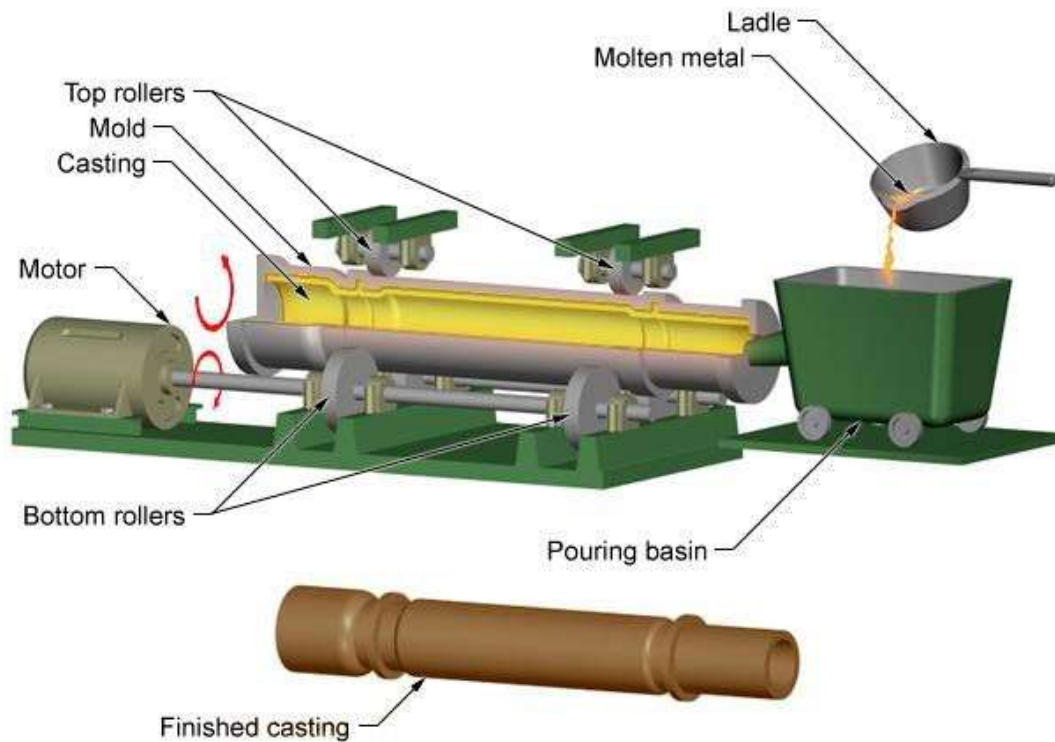
CUPLOA FURNACE



CRUCIBLE FURNACE



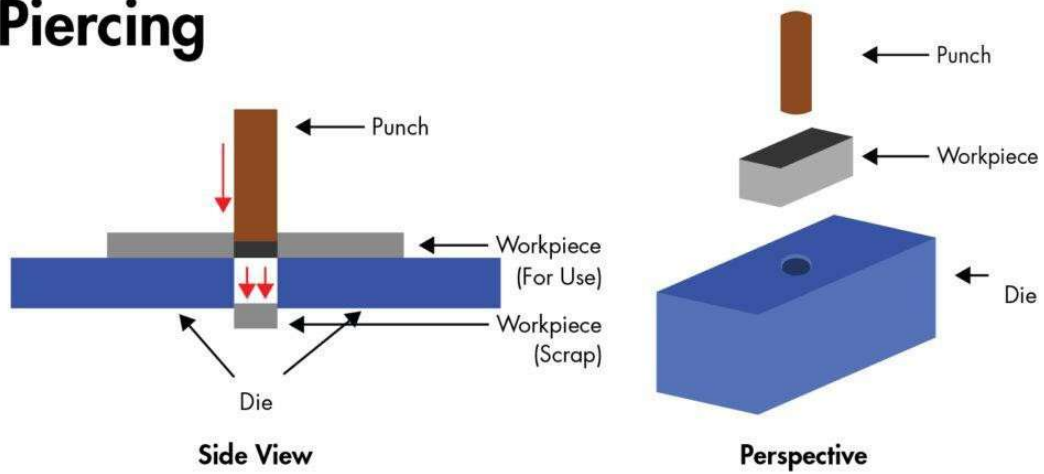
DIE CASTING



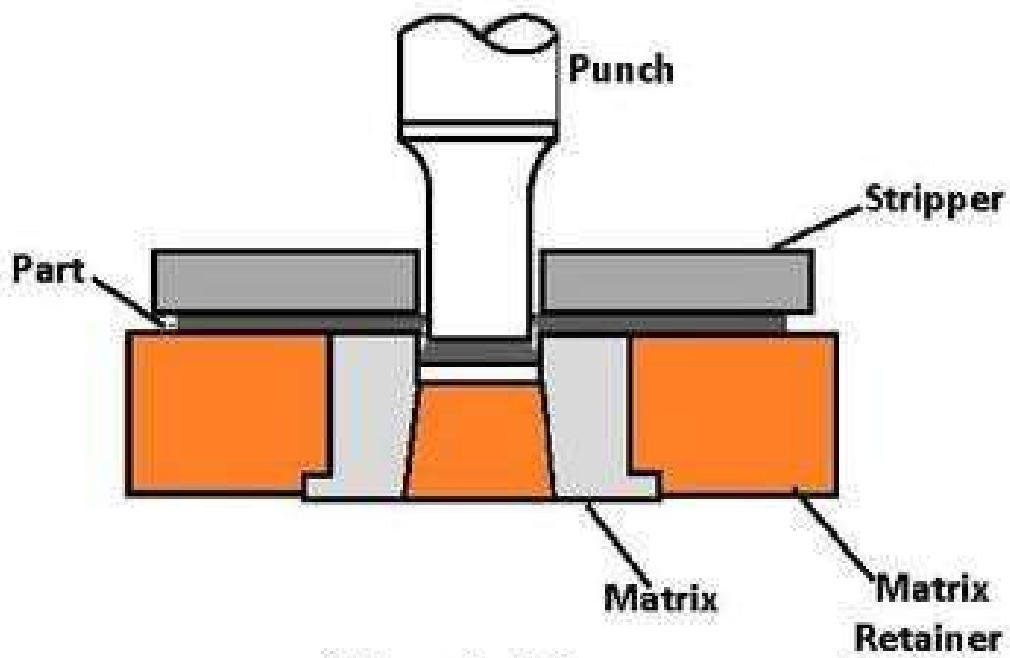
Copyright © 2009 CustomPartNet

CENTRIFUGAL CASTING

Piercing



DIE AND PUNCH

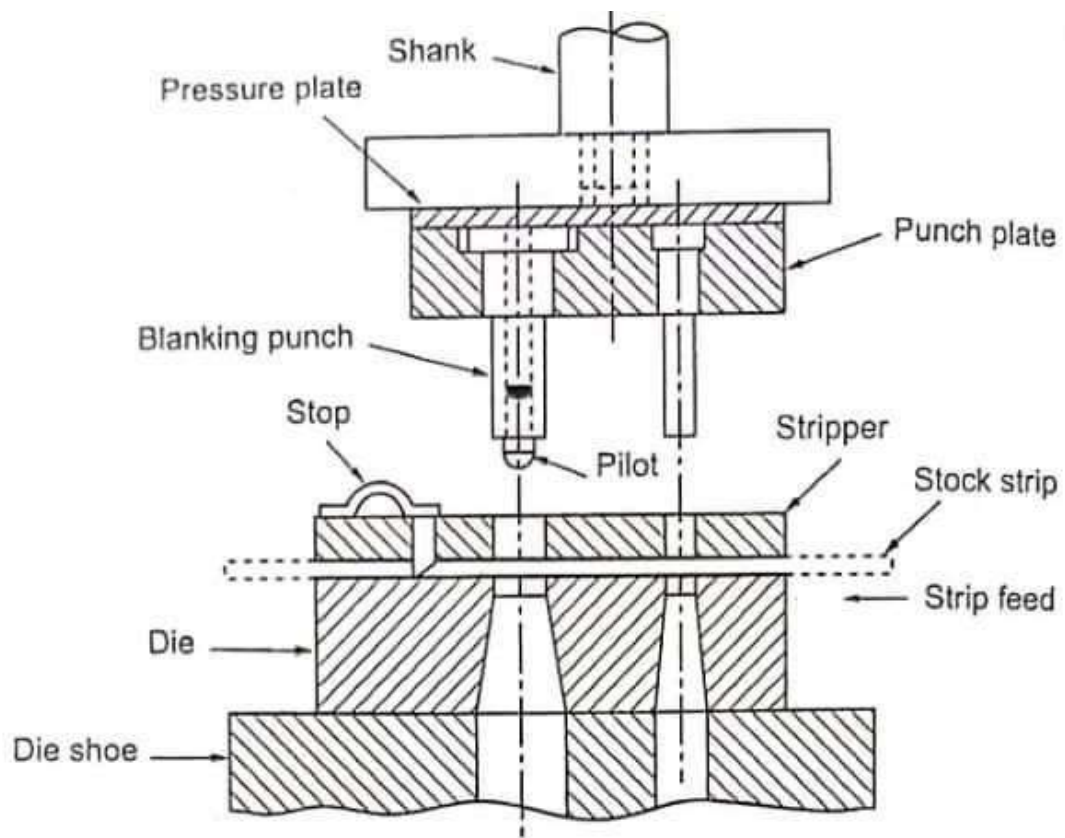


Simple Die

SIMPLE DIE



COMPOUND DIE



POGRESSIVE DIE



Jigs

Fixtures



JIGS AND FIXTURE