



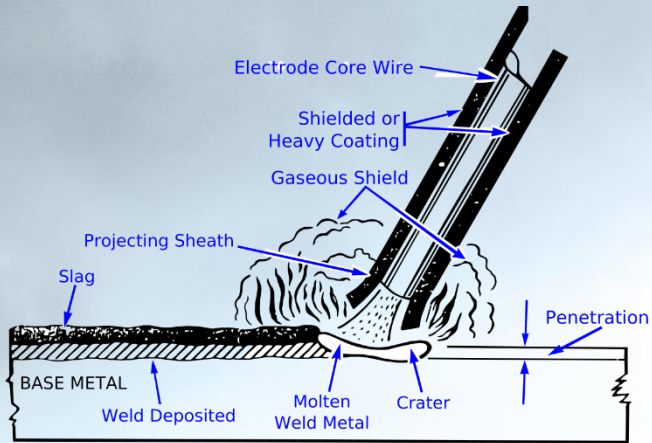
STANDARD ARC EQUIPMENT

Standard Arc Equipment

MMAW TIG MIG SAW

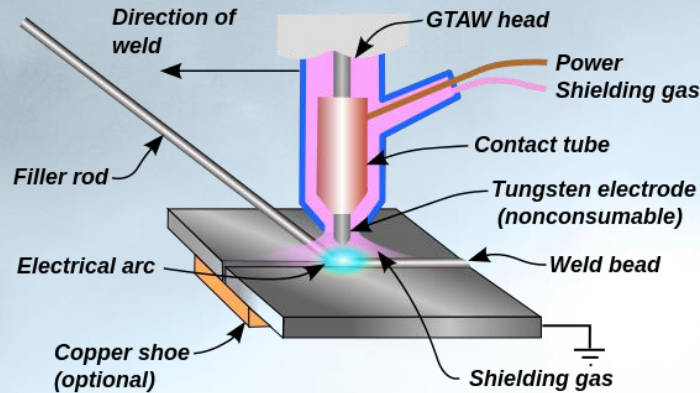
PLASMA CUTTING

MMAW / SMAW



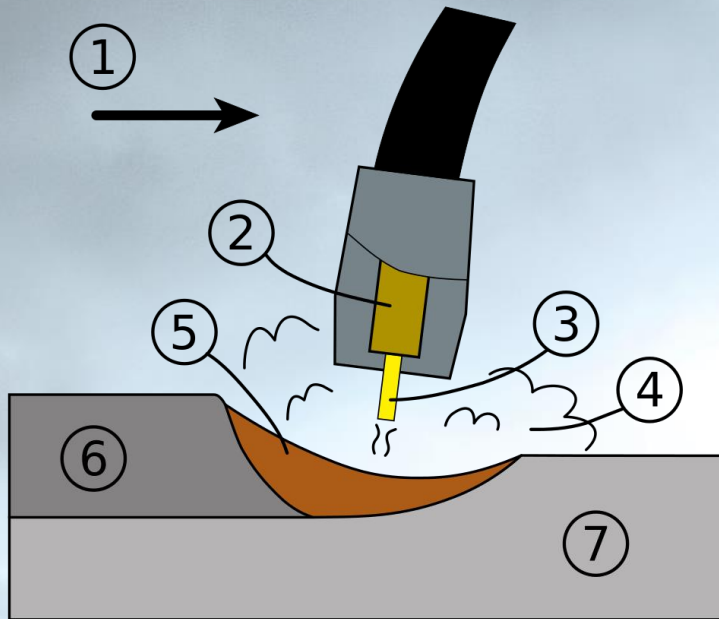
Shielded metal arc welding (SMAW), also known as **manual metal arc welding (MMA or MMAW)**, **flux shielded arc welding**^[1] or informally as **stick welding**, is a manual arc welding process that uses a consumable electrode covered with a flux to lay the weld. An electric current, in the form of either **AC** or **DC** from a welding power supply, is used to form an electric arc between the electrode and the metals to be joined.

TIG / GTAW



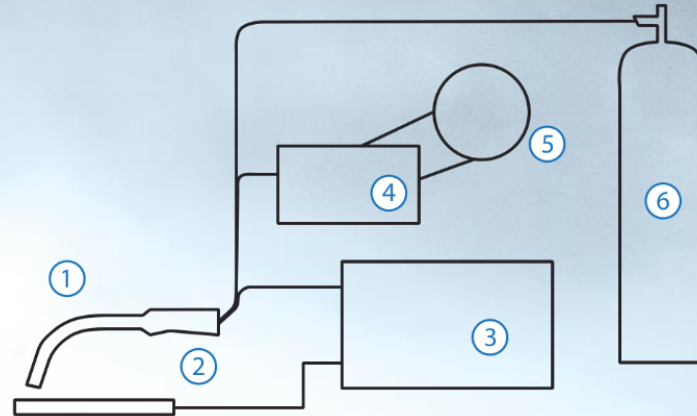
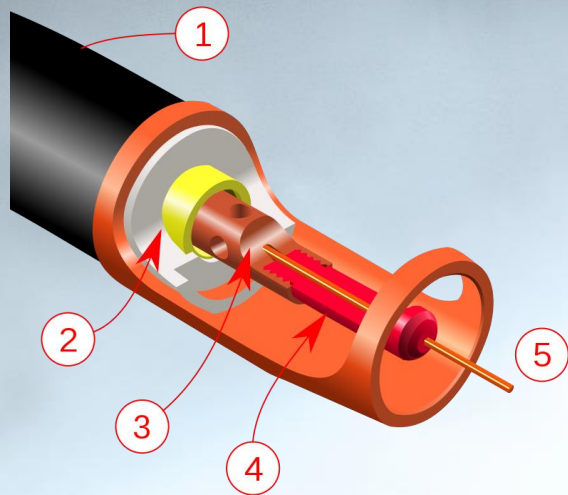
Gas tungsten arc welding (GTAW), also known as tungsten inert gas (TIG) welding, is an arc welding process that uses a non-consumable tungsten electrode to produce the weld. The weld area and electrode is protected from oxidation or other atmospheric contamination by an inert shielding gas (argon or helium), and a filler metal is normally used.

MIG / GMAW



GMAW weld area. **(1)** Direction of travel, **(2)** Contact tube, **(3)** Electrode, **(4)** Shielding gas, **(5)** Molten weld metal, **(6)** Solidified weld metal, **(7)** Workpiece

MIG / GMAW



Gas metal arc welding (GMAW) or metal inert gas (MIG) welding or metal active gas (MAG) welding, is a welding process in which an electric arc forms between a consumable wire electrode and the workpiece metal(s), which heats the workpiece metal(s), causing them to melt and join. Along with the wire electrode, a shielding gas feeds through the welding gun, which shields the process from contaminants in the air.

The process can be semi-automatic or automatic. A constant voltage, direct current power source is most commonly used with GMAW..

MMAW / SMAW



TRANSFORMER

DIODE

THYRISTOR

INVERTER

MMAW / SMAW



TRANSFORMER



Salient Features

- Higher metal recovery ensures lower consumption of electrodes.
- Superior dynamic characteristics gives soft and smooth arc, minimum spatter.
- Robust and compact construction ability to withstand rough handling at sites.

ESAB MODEL

- TRANSWELD 400
- THH630
- XPERT 400

MMAW / SMAW



DIODE

ESAB MODEL

- LHJ425
- LHJ750



Salient Features

- The rectifier has an option to fix ESAB digital V/A meter for showing the welding voltage and current.
- Fan cooled three phase rectifier connected to a three phase power.

MMAW / SMAW

TRANSFORMER

Salient Features

- True, vertical welding current characteristics with higher open circuit voltage.
- Immunity from AC input voltage fluctuation, with built-in overload and thermal cut-out protections.
- Stable arc with regular droplet transfer and elimination of spatter generation.
- Hot start facilities for easy arc striking.
- Effective prevention of electrode freezing.
- Single range current control with remote control facilities.
- Excellent reliability with high performance suitable for outdoor, onsite use.
- Ideal for precise TIG welding with necessary accessories.



ESAB MODEL

- SSR400
- SSR600

MMAW / SMAW

INVERTER

Salient Features

- Robust and Powerful
- MMA & TIG Welding Process
- Voltage Reduction Device – VRD
- Energy Efficient
- Safety and Reliability
- Light weight
- Adjustable hot start & Arc Force
- Wide mains voltage tolerance
- Generator Complaint

ESAB MODEL

- BUDDY ARC 200
- ARC 250
- BUDDY ARC 400
- ARC 630i



TIG / GTAW



THYRISTOR INVERTER

TIG / GTAW



THYRISTOR



ESAB MODEL

- ESAB SSR400T
- ESAB TIG 400 P

TIG / GTAW



ANALOG INVERTER



ESAB MODEL

- BUDDY TIG 400
- TIG 400i P

DIGITAL INVERTER



ESAB MODEL

- RENEGATE 300i P
- ORIGO TIG 4000i W
- ARISTO MIG u 4000iW

MIG / GMAW



DIODE

THYRISTOR

INVERTER

MIG / GMAW

DIODE



Power Compact 255
30 - 250A



Migmatic 250
40 - 250A
Migmatic Wire Feeder
5/10m, 0.8 - 1.2mm

ESAB MODEL

- POWER COMPACT 255
- MIGMATIC 250

MIG / GMAW THYRISTOR



Auto K 400/600
60 - 400/600A
Servo-I/Servo-II

Servo-I Wire Feeder :
5/10/15/20m, 0.8 - 1.2mm
Servo-II Wire Feeder :
5/10/15/20/30m, 0.8 - 1.6mm



SCR 400S / 500S
60 - 400/500A
Servo-I/Servo-II

ESAB MODEL

- AUTO K 400 / 600
- SCR 400 / 500

MIG / GMAW



ANALOG INVERTER



ESAB MODEL Buddy™ MIG 400i/ 500i

- BUDDY MIG 400 / 500
- MIG 400i CC/CV

DIGITAL INVERTER



ESAB MODEL Aristo Mig 4004i Pulse

Aristo Mig 5000i

- ARISTO MIG 4000 / 5000
- ORIGO MIG 4002 / 5002

SUBMERGED ARC WELDING



SAW Tractor CPRA

ESAB MODEL

- CPRA 1200S / 1200T / 1250i



PLASMA CUTTING MACHINE



INVERTER



ESAB MODEL

- CUT MASTER 40 / 60 / 100i

THANK YOU



esab.com

