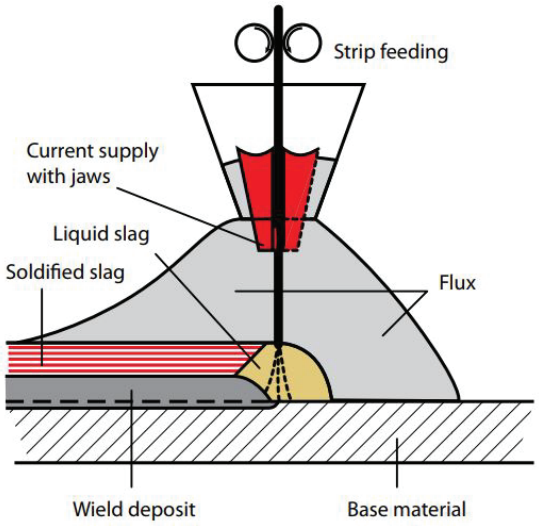
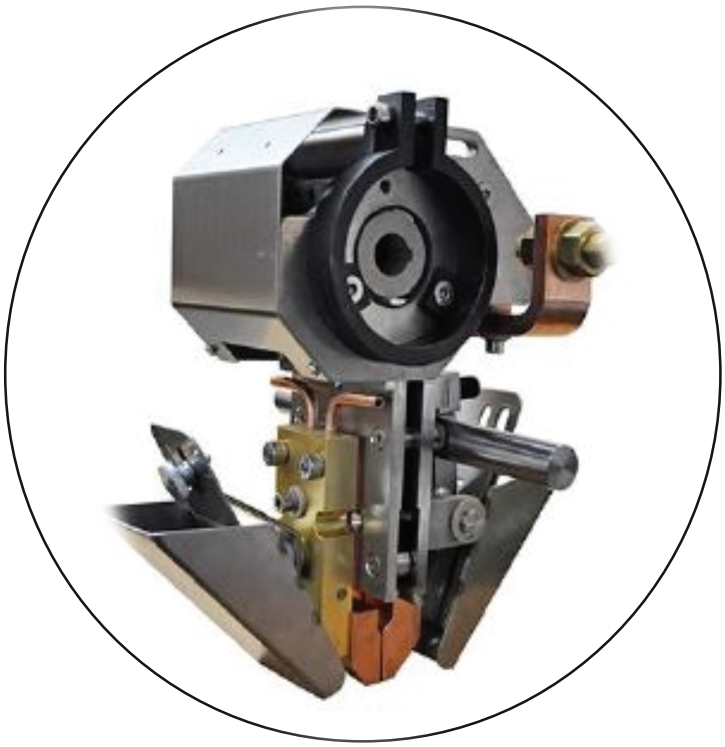
CLADDING

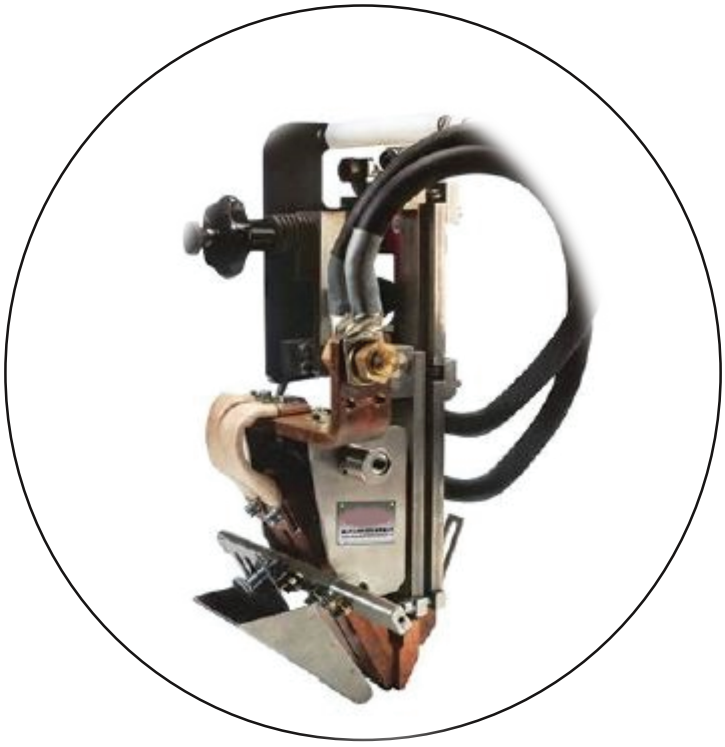
- Cladding is a fundamental process to the manufacturing and fabrication industries and is used across many applications, including petrochemical, oil and gas, pressure vessel and boiler making.
- The process of cladding involves putting a new layer on top of an existing work piece — sometimes to repair items such as nozzles, ball valves, mill rolls and shafts -or to improve the wear resistance or corrosion properties of the piece.
- Compared to carbon and alloy steels, all corrosion resistant alloys are expensive. Cladding can save up to 80% of the cost of using solid alloy.
- The process is often used when there is a need to use mild or low- alloy steel for the main structure with a specially alloyed material applied to a certain portion of the work piece to accommodate necessary properties.
- It is more cost effective to apply the layer only where needed, rather than fabricating the entire structure from the more expensive specially alloyed material.
- Cladding offers a solution in these situations.



SAW STRIP CLADDING PROCESSES

STRIP CLADDING HEAD





- Advanced structure design for wide range of strip width on common applications; easily to adjust structure for fast selecting different strip.
- High efficient cooling system with MEMCO brand water cooler reduces the conduit plate temperature, which can keep longer time continuous welding, and enlarge the conduit plate life span.
- Unique strip feed roller design assures strong and steady feeding even in tough environment, no slipping and unsmooth feeding.

SAW STRIP CLADDING

- The well - known SAW method has been widely used with strip electrodes since the mid-1960s.
- A strip electrode, normally measuring 60 x 0.5 mm / 90 x 0.5 mm, is used as the (usually positive) electrode and an electric arc is formed between the strip and the work piece. Flux is used to form a molten slag to protect the weld pool from the atmosphere and helps to form a smooth weld bead surface.
- Submerged Arc Strip Cladding, an arc runs along the width of the strip, depositing weld metal on the base material. This is because there is penetration into the base material, dilution levels typically are about 20 percent with this method.

SAW POWER SOURCE

01 FULLY THYRISTORISED, FULL WAVE WITH INFINITELY VARIABLE ARC VOLTAGE SETTING OVER THE ENTIRE RANGE.

02 AUTOMATIC VOLTAGE STABILISATION FOR SMOOTH AND EASY OPERATION WITH ALL NECESSARY CONTROLS

03 MODULAR DESIGN OFFERS COMPLETE FLEXIBILITY AND INSTANT ADAPTABILITY TO COVER WIDE APPLICATIONS.

04 DESIGN ENGINEERING OFFERS FLEXIBILITY AND EASE OF SERVICING WITH ALMOST ZERO DOWNTIME.

Technical specifications model MCW SAW

MODEL MCW SAW	1200	1500	2000
Input voltage supply	380/440	380/440	380/440
Phase	3	3	3
Cycle	50/60 HZ	50/60 HZ	50/60 HZ
Maximum output current	1200	1500	2000
Duty cycle	100%	100%	100%
Open circuit voltage	60v	60v	60v
KVA at Max rated	70	85	120
Cooling (Force)	Air cooled	Air cooled	Air cooled
Insulation class	H	H	H
Overload protection	Thermal	Thermal	Thermal
Dimension (Mm)	1015 x 915 x 1120	1015 x 915 x 1120	1015 x 915 x 1120
Weight (kgs)	550	570	595

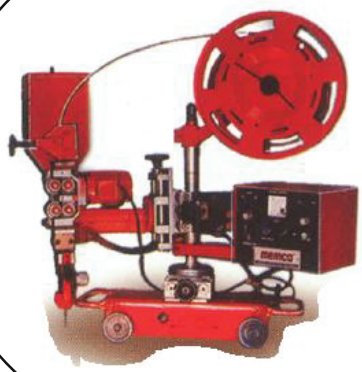
SAW Trolley

FOUR WHEEL TROLLEY & TRACK

01

STURDY PROVEN CONSTRUCTION FOR BOTH INDOOR /SITE APLLICATIONS WITH CLUTCH FOR EASY ACCESS

04



02

WELDING HEAD FITTED WITH CONTROL PANEL, WIRING INCHING UP/DN ALL BY SIMPLE PUSH BUTTON.

03

FOUR WHEEL TROLLEY MOUNTED WITH 3 METRES RAIL.

Technical specifications

Sr no	PARAMETERS	VALUES
1	Welding Speed	30 to 1200 mm/min
2	Maximum Welding Current	1500
3	Strip Width	30-60 mm
4	Vertical Adjustment	135 mm
5	Horizontal Adjustment	135 mm
6	Swivel Adjustment	360 Degree Of The Beam Supporting Control Box, Wire Spool And Welding Head For Four Wheel Trolley

WATER COOLING SYSTEM SPECIFICATIONS

PARAMATERS	VALUES
INPUT VOLTAGE	380/415 VAC
FREQUENCY	50 Hz
RATED POWER	580 W
WATER COOLING CAPACITY	40 LITRES
COOLING CAPACITY	235 KJ/MIN
MAX WATER LIFT	45 M
WATER CYCLING TYPE	FORCED BY PUMP

APPLICATIONS OF STRIP CLADDING

- The process is usually confined to relatively large and thick components which need to be manipulated to enable welding to be carried out in the flat position.

- The technique finds its widest application in the oil, gas and fertilizer related industries and in the nuclear power generation field.

- Generally used for surfacing the internal surfaces of pressure vessels and large diameter pipe and in the reclamation of steel mill rolls.

COLUMN BOOM with Strip Cladding Head
& Power source

Range of Welding Equipments: MMAW | MIG/MAG | TIG | Plasma Cutting |CNC | Welding Robots | Welding Automation

Memco has set up it's own best in class welding euipment manufacturing facility at Mumbai, India.

Our products & instruments are tested by NABL accredited lab.

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memco
SYNONYMOUS WITH WELDING