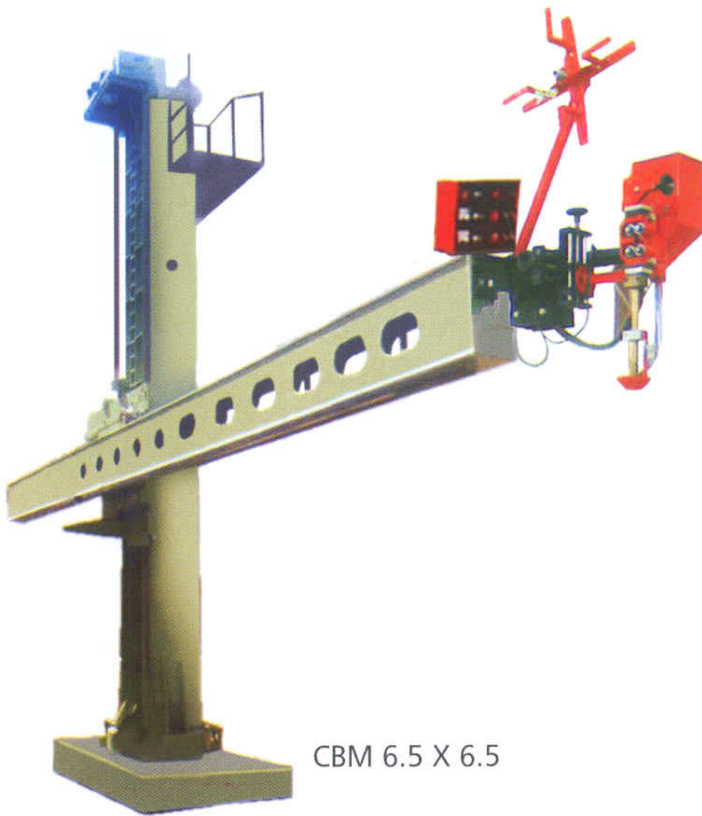


## COLUMN BOOM



CBM 6.5 X 6.5

### Model - CBM

#### Base :

The base frame is of robust heavy construction to give maximum rigidity. The base design permits the free-standing operation of the machine even when the boom is fully elevated and extended. The base can be fixed stationery or motorised trolley mounted with fixed speed or variable speed to travel on track.

#### Column :

Consisting of an extremely rigid box section and provided with machined slide- ways for the saddle elevation. The Column is supported on swivel bearing permitting the column to swivel through 360° smooth rotation. Column locking clamps are provided to secure it when the welding head is positioned for welding.

#### BOOM :

Booms are designed with high section of modulus to minimize sagging of boom when fully extended. The boom runs on the guide-rollers horizontally mounted on saddle plate. The guide rollers are fitted with eccentric pins for perfect alignment and adjustment of the boom. Saddle elevation with the boom is achieved through A.C. motor & heavy reduction gearboxes and heavy duplex/triplex chain sprockets. Electromagnetic thruster brake is provided with the motor. Counter weight is provided inside the column to counter balance the weight of boom, saddle plate and welding head.

Column & Boom Manipulators are designed to work independently or in conjunction with rotating and/or positioning equipment to locate an Automatic Welding Head in the correct position over the work-piece to achieve the necessary down hand weld.

## COLUMN BOOM



### **STANDARD FEATURES :**

Variable speed horizontal boom travel by AC 'VFD' Drive / DC Thyristorised control.

Fixed speed AC motorised drive for vertical travel of boom.

Horizontal speed of boom travel is infinitely variable between 100 to 1500 mm per minute.

Limit switch as well as mechanical stopper provided in column end and boom end to prevent from over riding.

Antifall mechanism provided on saddle plate in case of chain failure.

Input power supply : 415V AC, 3 phase, 50 Hz.

High rated Contractors for AC motors.

Robust & vibration free construction.

Accurately machined guides for both vertical & horizontal travel.

### **OPTIONAL : ADDED FEATURES :**

Motorised trolley base for traveling of Column boom on rails through AC or DC control.

Operator's chair on the boom.

Walk way along entire length of boom.

Provision for mounting the Welding head on the Column.

Motorised swivel of Column through 360°.

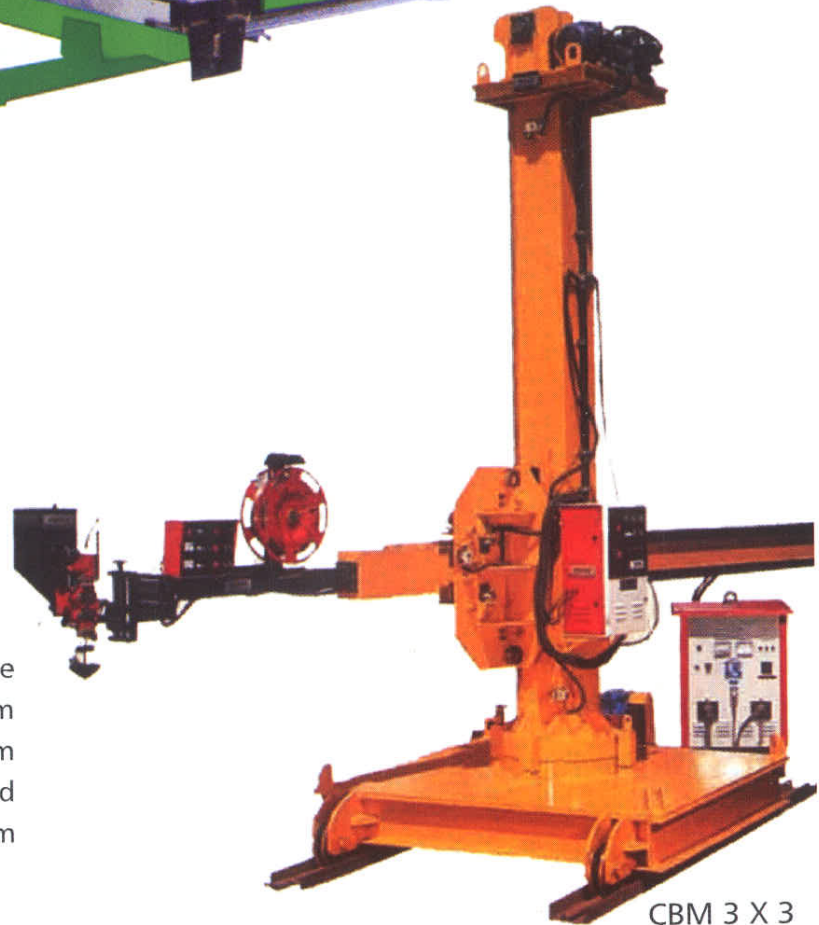
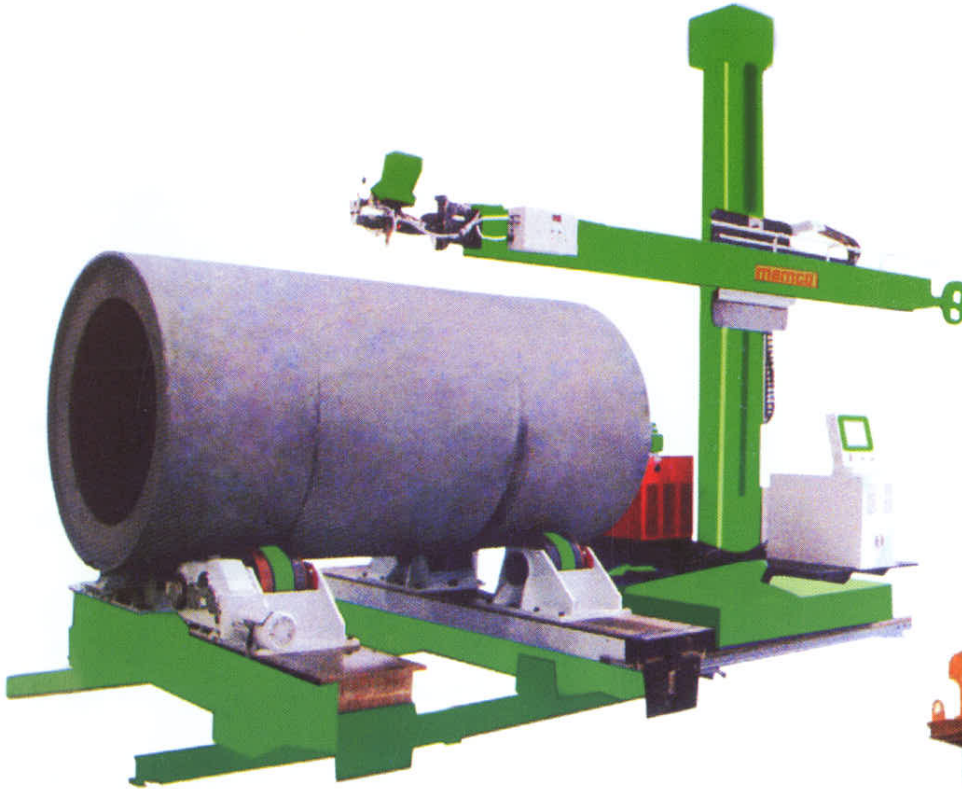
### **OPTIONAL EXTRA ATTACHMENTS :**

Twin wire feed drive CO<sub>2</sub>-MIG / MAG attachment.

Seam tracking/Oscillation mechanism.

Flux Recovery unit.

## COLUMN BOOM

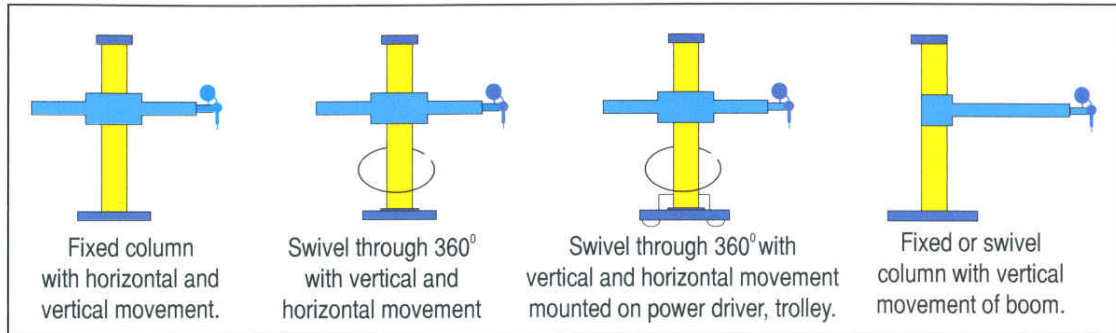


CBM 3 X 3

### **FOR INTERNAL WELDING :**

Special type of welding head are also developed for Column boom for internal long-seam & cir-seam welding with manual /motorised slides to accommodate in 300mm dia x 2000mm long jobs.

## COLUMN BOOM



### FIXED BASE/TROLLEY MOUNTED COLUMN BOOM

Model	VERTICAL STROKE OF BOOM mm	HORIZONTAL STROKE OF BOOM mm	MINIMUM HEIGHT UNDER BOOM mm	MAX. LOAD AT BOOM END KG	BOOM TRAVEL SPEED mm/min.	COLUMN ROTATION	INNER DIST. BETWEEN RAILS mm
CBM 2X2	2000	2000	800	100	100 -1200	360°	1100
CBM 2.5X2.5	2500	2500	850	100	100 -1200	360°	1250
CBM 3X3	3000	3000	900	125	100 -1200	360°	1400
CBM 3.5X3.5	3500	3500	900	125	100 -1200	360°	1400
CBM 4X4	4000	4000	1000	150	100 -1200	360°	1500
CBM 4X5	4000	5000	1000	150	100 -1200	360°	1750
CBM 5X4	5000	4000	1000	150	100 -1200	360°	1500
CBM 5X5	5000	5000	1100	150	100 -1200	360°	1750
CBM 5X6	5000	6000	1100	150	100 -1200	360°	2000
CBM 6X5	6000	5000	1200	200	100 -1200	360°	2000
CBM 6X6	6000	6000	1200	200	100 -1200	360°	2000

In view of continuous development and innovation the dimensions and specifications are subject to change.  
Custom built machines can be manufactured as per customer's technical specification.