

# MITSUBA SYSTEMS

## ELECTRO MECHANICAL OSCILLATOR

### FEATURES

Multiple guns can be mounted on arms extended from the carriage which are capable of performing same or various motions.

There is a facility to attach fixed guns which can be angled to access difficult coating areas.

The carriage is programmed to move the vertical mounting bar at variable stroke and speeds.

The carriage moves up and down through an AC geared motor. The carriage is supported by a very sturdy frame structure. The entire oscillator is mounted on castor wheels to facilitate easy movement during colour change



### SPECIFICATIONS

STROKE SPEED: 0 - 28 cycles / minute (INFINITELY SELECTABLE)

STROKE: 100 mm Min / 300 mm Max of vertical bar

ANGLE OF SWING: Adjustable upto 90 deg.

Max No.of Guns: To Suit Application

CONTROL: VARIABLE FREQUENCY

DRIVE MOTOR: GEARED ½ HP. AC MOTOR

INPUT VOLTAGE: SINGLE PHASE 230 VAC (OTHER VOLTAGES ON REQUEST)

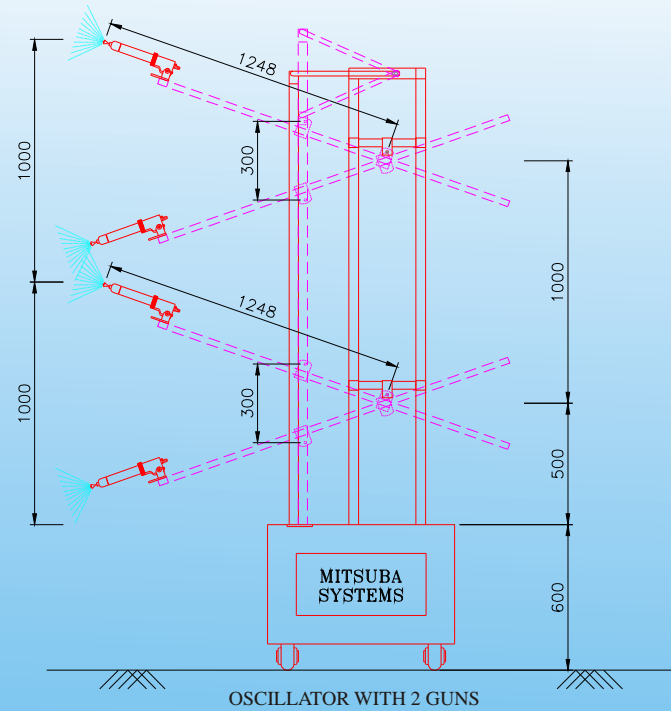
POWER: 0.37 KW (1/2 HP)

## SPEED CONTROL

Speed of the moving guns can be varied between 0 to 28 cycles/min by turning the speed adjuster knob. This step in turn gives a signal to a most updated A.C. frequency drive to achieve the desired speed.

## STROKE CONTROL

Stroke of each of the mounted guns can be varied in the following manner. Vary the gun mounting rod distance from fulcrum. By increasing the distance of the gun from the fulcrum, the resultant arc (movement height) of each gun can be increased.



Fulcrum - 1250mm Individual Gun Stroke - 1000 mm  
Total Stroke - 2000mm No. Of Guns - 2



**AUTOMATIC PANELS**

This larger gun stroke coupled with lesser number of guns are an ideal combination for conveyor line speeds of about 0.6mtr/min to About 1.5 mtr/min.

This lesser gun stroke coupled with higher number of guns are an ideal combination for conveyor line speeds of about 1.5mtr/min to about 3.0mtr/min.

Fulcrum to gun distance = 1250mm,  
Stroke = 1000mm.

Fulcrum to gun distance = 625mm,  
Stroke = 500mm.

Fulcrum to gun distance = 2500mm,  
Stroke = 2000mm.

In brief, to increase stroke, increase fulcrum to gun distance & vice-versa. This is easily achieved by simply pulling the gun holding rod.