

MEC



THERMAL SPRAY FACILITIES

COATING SYSTEMS FOR HVOF, PLASMA, FLAME SPRAY, ARC SPRAY & ROD SPRAY

Tech. Bulletin # FS/SR/01-01

AUTOMATIC THERMAL SPRAY SYSTEM FOR SYNCHRO RING

This automatic system specially aims to give consistent thermal spray coating on any type of predefined work object or job. It is useful especially in those areas where the output quantity is high and a uniform quality has to be maintained throughout. Since this system controls the various spray parameters e.g. Spray time, rotation RPM, gas flows and many other safety interlocks, hence with the use of least man power, quality coating can be achieved.



MEC is specialized in developing customized Automatic Thermal Spray System, which are targeted to fulfill the customer specific requirements.

Every thermal spray coating has a range of properties e.g. Hardness, bond strength, roughness, coating thickness, porosity etc. which can be manipulated to suit the customer requirement. Using the inputs given by the user of this system, we have developed the system with following features.

- ✂ Fully automatic spray operation controlled by PLC
- ✂ Safety interlocks with all the incoming gases.
- ✂ Each cycle is controlled by PLC and in simple to operate.
- ✂ Manual operation mode is helpful feature to verify each action of the machine. This is useful specially when the machine is used after a long break.
- ✂ The PLC displays the status i.e. it indicate any fault if present, as well as guides the operator step by step to operate the panel.
- ✂ The user can feed different spray time for different kind of jobs.
- ✂ The PLC programme is password protected for programme safety. A special backup programme is also provided in a memory module so that it can be used in emergency and the production held up is avoided.
- ✂ Voltage monitoring relay protects the control circuit from high/low voltage as well as from phase return and phase reversal.
- ✂ A special purge function cleans all the gases from the spray gun and from the panel to avoid any accidents.

Many other features other than stated above are incorporated in the system to ensure a trouble free operation for long period of time

MAJOR SYSTEM COMPONENTS

1. Abrasive Blasting M/c for Surface Preparation
2. Automatic System for Moly Coating; consisting
 - a) Heavy Duty Thermal Spray Gun
 - b) Control Panel
 - c) Gun Manipulation
 - d) Wire Reel Stand
 - e) Spray Booth with Water Curtain



METALLIZING EQUIPMENT CO. PVT. LTD.

E-101, M.I.A., Phase-II, Basni, Jodhpur-342005 (India)

Ph. : +91 291 2747601 Fax : 2746359

E-Mail : mecpl@sancharnet.in / mecpl@vsnl.com

Web : www.mecpl.com

Delhi
09312890541
mecdiy@ndf.vsnl.net.in

Mumbai
022-24934370
mecbby@bom5.vsnl.net.in

Bangalore
09343861755
mecpl.bgl@gmail.com

Secunderabad
040-27813760
mecsec@satyam.net.in