



KEEPSAKE

Keepsake Engineering Consultancy Pvt. Ltd.

Cladding | Welding | Thermal Spray Coating | Training



KEEPSAKE

OUR COMPANY

An Ahmedabad based professionally run two and a half decades old company specialized in the field of Thermal Spray Coatings of Ceramic and Tungsten Carbide, overlay of Inconel 625 and Stellite 6 type materials and special joint welding.

Our strength is most modern equipment's, trained team of engineers and skilled operators. We have also updated facilities according to the advancement of technology, from time to time. As such we have been able to meet the requirements of industry in terms of quality, accuracy and speed.

A high-tech training center in the field of welding has been established at LD College of Engineering, Ahmedabad jointly with Government of Gujarat under their skill development program. Centre for Entrepreneurship, Keepsake Engineering Consultancy Pvt. Ltd. And Gujarat Technological University combined to provide practical and upgrade skills for both students and industry personnel.

At Keepsake Engineering Consultancy Pvt. Ltd., we accept challenges. The result is enhanced life of your component and lowered total cost of ownership. And because we are small yet specialized, we offer reliable & cost-effective solutions.

To remain cost effective & consistent we automated many coating applications using robot, manipulators & positioner-rotator combination. We have installed in our factory equipment's selected for quality, technology & value for money basis. We upgrade that selected equipment using our experience, knowhow & remain modern.

The thermal spray guns require proper fuel supplies in terms of flow & pressure. We installed manifold & flow-meter systems which are less atmospheric

weather dependent & safe. We could thermal spray at better consistency for our O.E.M. customers.

To minimize effects of heat during spraying on your components, we controlled & monitored job temperature using infrared imagers. We succeeded in minimizing or avoiding distortion & increased range of materials which can be repaired.

We employed competent & qualified staff & trained them as per provisions & guidelines of ASM 2.16/2.16M operator training manual. And the team has been with us for many years, almost like a family.

After coatings we subjected our jobs to both on-site & lab testing. We collected & documented those results some of which can be referred by attached case histories. We can hence technically & theoretically verify the suitability of our solutions.

So, we keep ourselves updated by the developments all around us. We use our almost 25 years' experience in the field of thermal spray & welding to benefit our customers & industry.

We have the most advanced training & research Centre of Excellence welding institute at L D College of Engineering Ahmedabad. We train engineering undergraduates at our premises & work on development projects with them. We share & gain knowledge.

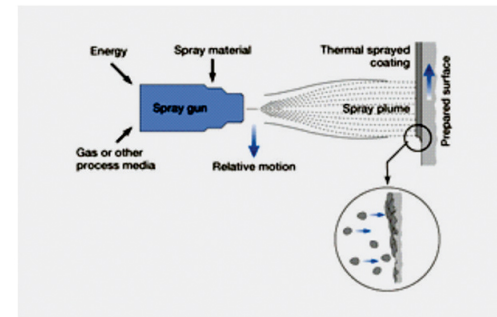


PROCESSES

Thermal Spray

What is Thermal Spray?

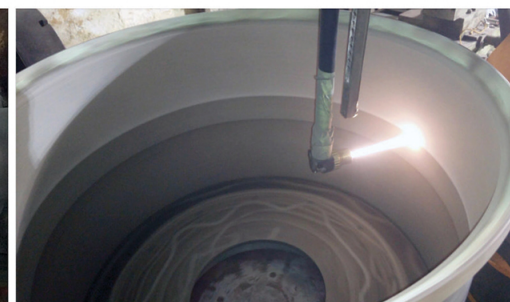
Thermal spray is a means of depositing a superior coating material having desired properties over a relatively inexpensive base material (substrate). The applied coating improves the life of treated components without affecting its mechanical properties. All thermal spray processes have three steps in common: feed coating material (in a form of wire, powder and rod), heat that material to semi-molten stage, and transfer the material by force of gas or compressed air to the part to be coated.



NiCrBSi Coating on Paper Roll



HVOF Process Tungsten carbide on Bridal Roll



Hard corrosion resistant Metallic Alloy276



Waist Heat Boiler Tube Coating



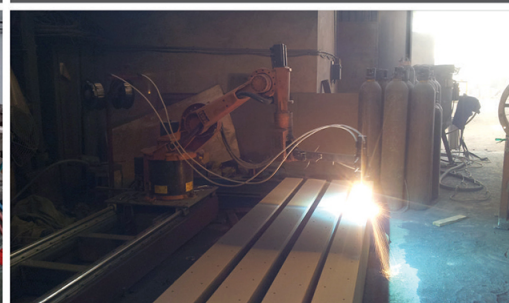
Haste Alloy Coating in Vessel



Boiler Tube Coating with CrCarbide-NiCr Cord



Spray & Fuse Coatings with NiCrBSi



Arc Spray Process on Copper Furnace Copper Block



Stellite Coating on Thermo Well Tube

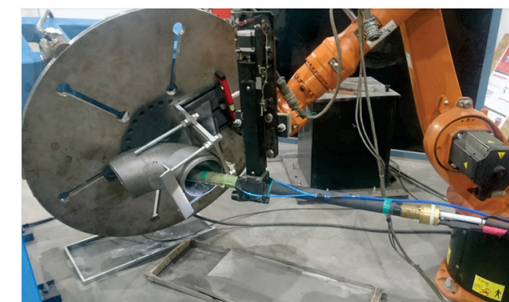
Welding/Cladding

What is Welding?

Welding is a very old process and is widely adopted as joining process. As such everybody has heard about welding, but very few know it. Weld joints are designed, hence requires knowledge.

Principle of Welding

- Creation of welding arc
- Directing the high temperature arc towards the fusion zone
- Impact of the energy causes fusion of the parent material and form weld pool
- Molten pool is shielded by the inert gas/floating slag



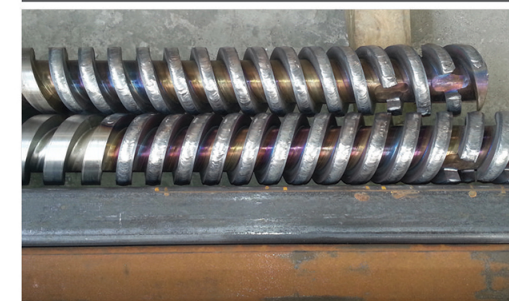
Automated Elbow Cladding Setup



Pipe Internal Cladding



Cladded Pipe 2Meter Long



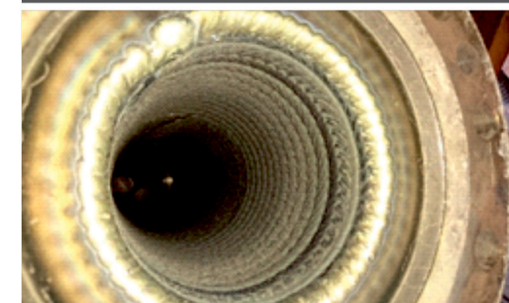
Plastic Extrusion Screw Colmonoy Alloy Cladded



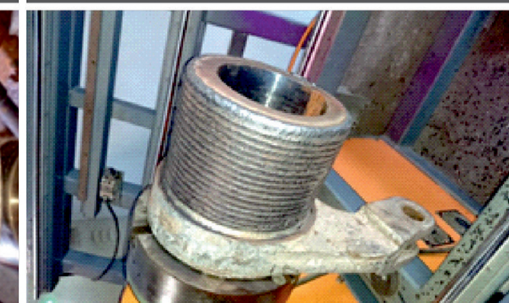
Precisionness of Welding



Compressor Screw Flight Refurbishing



90mm ID Cladding (Stellite6)



Cam-Levers



Casing Ring (Stellite6)



Keepsake COE for Welding is an industrial unit established at LD college of Engineering.

The purpose is to provide exposure to students, of working culture within industry. LD college of Engineering provides academic excellence while Keepsake Welding Research & Skill Development Center provides corporate style trainings.

Welding requires multi-disciplinary skills varying from mechanical, metallurgy, electrical and electronics. These fundamentals help in achieving process control and quality.

The curriculum is voluntary for students. There would be no academic exams, but attendance requirements are dictated by industrial norms. Training would be rigorous and disciplined; hence of high value. The goal is to fulfil the industrial requirements of a skilled individual starting from work force to managerial level. We would also be engaging for guiding the industry in defining and developing the process as per their requirements. In house research projects in combination with students and industry would be carried out in parallel.

Training Institute



Robot with TIG / MIG / Plasma Process



Identification of Material with Spark Test



Welding Augmented Simulator

Thermal Spray

Polymer Coating
Ceramic Coating
Carbide Coating

Weld Technologies

Mig & Tig
Plasma
Micro Plasma



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