

ESKOM LEVEL 1 CERTIFIED

Thermaspray is an ISO 9001:2008 Quality Management Company and Eskom Level 1 certified company for both PTA welding/cladding (for example Stellite 6) and thermal spray coatings. Thermaspray is the only company in Southern Africa with Eskom level 1 approval for thermal spray coatings.

Eskom Certification

Thermaspray (Pty) Ltd is certified to supply thermal spray coatings on level 1 components for Eskom and Eskom contractors, as well as hardfacing of wear-prone components by welding (Plasma Transferred Arc), on satisfactory completion of weld qualification testing.

Recent work done for Eskom via Rotek or other OEM's

Thermaspray (Pty) Ltd have completed a number of jobs for Eskom recently. Some examples are:

- HP C/V Spindles – PTA weld Stellite 6
- CW Booster pump bearing housing – Coating and final grind/finish
- Hendrina 2-way valve stem – Coating and final grind/finish
- Valve spindles – Coating and final grind/finish
- Accumulator cylinder – Final Machining
- Valve spindles – Coating and final grind
- HP ESV heads/seats – Stellite 6 PTA weld and grind/finish
- CW Booster Pump Gland Sleeves – Coating and final grind/finish
- CW Booster Pump bearing housing – Coating and final grind/finish
- ESV Servo Stems - Coating and final grind/finish
- LP Bypass Diffuser – Reconstruct including final finish
- Komati H2 water box and cover – Reconstruct and corrosion protection
- Matla PS HP control valve spindles Unit 6 GO – PTA Stellite 6 and final grind/finish
- Matla PS HP control valve seat bush Unit 6 GO – PTA Stellite 6 and final grind/finish

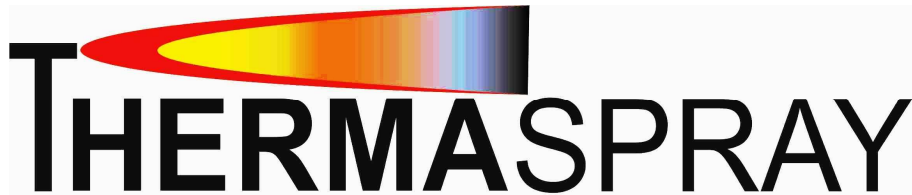
Thermaspray (PTY) Ltd

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- Matla PS IP control valve spindles Unit 6 GO – PTA Stellite 6 and final grind/finish
- Matla PS IP bypass control valve spindles Unit 6 GO – PTA Stellite 6 and final grind/finish
- Gland boxes – Repair seal lands
- 2-way valve stems – Coating and final grind/finish
- 3-way valve stems – Coating and final grind/finish
- 2 IP CV Governor valves – Coating and final grind/finish
- Leakoff body seat – PTA Stellite 6 and final grind/finish
- HP front and rear gland box – Repair seal lands
- HP servo motor rack spindles – Coating and final grind/finish
- Diffusers – Reconstruct, coating and final grind/finish
- Stellite bush (Kendel IP CV No.4) – Final grind
- MOP DE & NDE Bearings – Coating and final grind/finish

Other repair, coating and welding work on Eskom parts include boiler feed pump shafts, boiler feed pump spares, NRV valve spares, BWCP rotors, valve cone spindles and ESV spindles. These are just some examples of the work done for Eskom by Thermaspray.

Standards applicable for work undertaken by Thermaspray

Thermaspray performs all spray processes in line with the following appropriate standards:

- BS EN 1395:2007. Thermal Spraying – Acceptance inspection of thermal spraying equipment (flame spraying including HVOF, Arc spraying and Plasma Spraying)
- BS EN ISO 14920:1999. Thermal Spraying – Spraying and fusing of self-fluxing alloys
- EN 13214. Thermal Spraying – Thermal Spray coordination
- BS EN 14616:2004. Thermal Spraying – Recommendations for Thermal Spraying
- BS EN 13507:2010. Thermal Spraying – Pretreatment of surfaces of metallic parts and components for thermal spraying

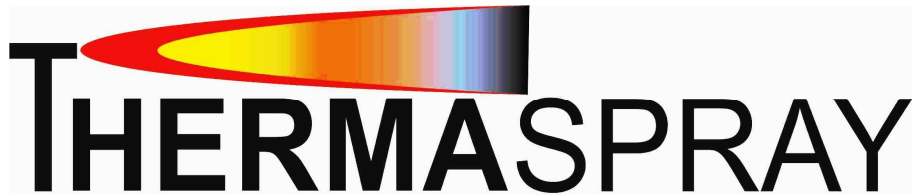
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- BS EN ISO 14921:2010. Thermal Spraying – Procedure for the application of thermally sprayed coatings for engineering components
- BS EN ISO 14922:2009. Quality requirements of thermally sprayed structures
- BS EN ISO 14923:2003. Thermal Spraying – Characterisation and testing of thermally sprayed coatings
- BS EN 582:1994. Thermal Spraying – Determination of tensile adhesive strength
- BS EN ISO 17836:2004. Thermal Spraying – Determination of the deposition efficiency of thermal spraying
- BS EN ISO 14924:2005. Thermal Spraying – Post treatment and finishing of thermally sprayed coatings
- ISO 14918:1998. Thermal spraying approval testing of thermal sprayers
- BS EN ISO 14731:2006. Welding Coordination – Tasks and responsibilities
- ISO 15614-7:2007. Specification and qualification of welding procedures for metallic materials – Welding procedure test overlay welding
- BS EN ISO 15609:2004. Specification and qualification of welding procedures for metallic materials – Welding procedure specification
- EN ISO 15607:2003. Specification and qualification of welding procedures for metallic materials – General rules
- ISO 3834. Quality requirements for fusion welding of metallic materials

How can Thermaspray assist Eskom?

Thermaspray prides itself on being able to offer ISO accredited techniques to assist Eskom in many ways. Besides the points mentioned above, Thermaspray can offer services to Eskom that include the refurbishment, repair, thermal spraying and welding of pump components (housings, impeller fins, seal sections and wear rings), turbine components (shaft, blades, diaphragm, bearings), boiler tubes, control valves and sleeves. These are just a few of the services that Thermaspray can offer.

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