

# Kettle Inspection & Pump Out



KTE can assist in extending the useful life of galvanizing kettles by undertaking kettle inspections, pump outs, repairs and pump back services. These services include removing molten zinc and performing ultrasonic testing to detect and identify any eroded areas of the inside walls of the kettle.

## The KTE service includes:

- Developing a detailed plan to undertake the work with minimal downtime
- Providing a detailed quotation for all requirements
- Preparing the site for safe and efficient works
- Pumping molten zinc from the kettle into Molten Zinc Holding Vessels
- Performing visual inspection of kettle internals
- Performing ultrasound thickness testing in fine resolution around reported or known eroded areas and mapped out repair
- Performing ultrasound thickness testing of larger resolution to remaining internal area of kettle walls
- Placing preheat thermocouples into kettle
- Preheating kettle in preparation for molten zinc pump over
- Pumping back molten zinc after stacking of zinc completed

## As part of the complete service KTE provides the following equipment and personnel:

- Molten Zinc Pumping Units
- 80 m/t Electric Zinc Holding Vessels
- Transfer piping
- Gas preheating equipment for transfer piping
- Welding wire/rods
- All experienced personnel to supervise and perform the above tasks.
- All Personal Protection Equipment for KTE staff. KTE's Ultrasound kettle inspection unit will test kettle wall and report accurately.
- Once tested our finite analysis can give accurate estimation to determine kettle life and kettle repair
- Testing takes up to 4 hours and has a +/- 1mm accuracy

## KTE Equipment includes:

- 4x portable molten zinc furnaces with a capacity of 80mt
- Our pumping system displaces 80 tonnes per 15 minutes enabling testing & repair to take place within 24 hours



# Galvanizing Kettle

 KINGFIELD EQUIP.



KTE has been partnering with W.Pilling Riepe GmbH & Co. KG for more than 20 years as both companies recognise each other as the best in the industry.

Pilling galvanizing kettles are produced exclusively at their factory in Riepe, Germany. Pilling provides the very best kettles with wall thicknesses of up to 80 mm. There are very few restrictions on the dimensions, shapes and weights of the components.

Pilling's entire production is designed to minimize the introduction of mechanical stresses into the kettle material. For this purpose, all deformations on the sheet metal are carried out when warm. In addition, the Pilling's electroslag welding process, which uses only one layer to weld the entire thickness of the kettle, results in a very uniform temperature input.

## Pilling Galvanizing kettles

- 100 years experience
- Made to German quality standards
- Best quality materials and production technologies
- Proven to be the most reliable

