IKN Product Data Sheet

Kiln Alignment

Background

Rotary kiln reliability depends on correct kiln geometry and alignment. Changes caused by foundation settlement, uneven wear or incorrect repair leads to overloading of individual components resulting in serious damage and loss of production. The IKN mechanical inspection of the rotary kiln eliminates this risk. Sophisticated measurement procedures are carried out and evaluated by our specialists using specially developed software. Results of the analysis are reported to the client together with a proposal to correct any problems found.

Inspection scope

- KILN AXIS
  Deformation in horizontal and vertical planes
  Radial rollers position – inclination and skewing
  Axial balance of kiln

- KILN SHELL PROFILE ANALYSIS
  Deformation of kiln shell
  Undertyre clearance
  Tyre wobble

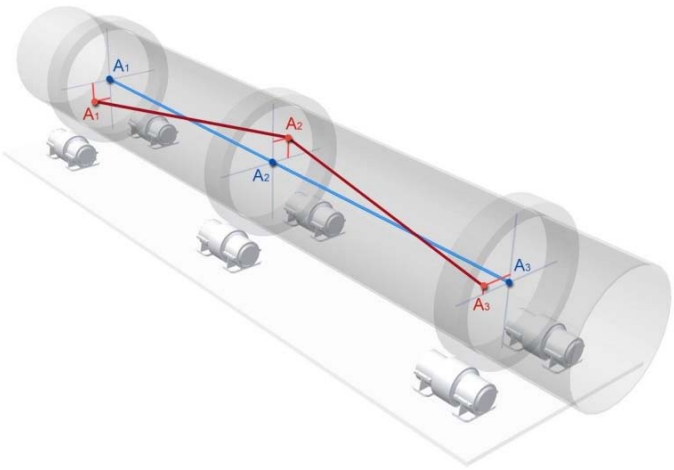
- KILN DRIVE DIAGNOSTICS
  Radial and axial wobble of girth gear
  Evaluation of mesh and root clearance between the girth gear and the pinion

- GENERAL INSPECTION
  Visual check of all kiln components
  Evaluation of recorded data from control systems

- RESULTS
  Analysis, presentation and submission of report
  Proposal of re-adjustment corrections
  Assistance during re-adjustment

Benefits

- Reduces maintenance costs
- Extended lifetime of all kiln components
- Extended lifetime of refractory
- A cost effective investment with a short amortisation time
- Performed during normal kiln operation



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