Hot and Cold Kiln Alignment

Optimizing and enhancing the reliability of your production tool

- An OEM expertise for a reliable and accurate diagnosis of your equipment
- Detailed recommendations to plan efficiently your maintenance operations
- Immediate implementation of the priority corrective actions
- Recognized know-how and skills based on 40 years of experience
A practical “decision making” tool for your maintenance teams

Thanks to its recognized expertise in process and mechanical equipment, Fives offers a comprehensive audit to achieve your industrial and economical performance targets.

APPLICATIONS
— All types of kilns and other rotating tubes (dryers, calciners, coolers...), whatever the number of supports is
— Either minerals or cement industry
— Fives original-design equipment or others

MEANS
— An experienced OEM team with complementary expertise (a surveyor and a mechanical expert)
— Support from the in-house design department
— Well proven dedicated tools for on field measurement and data collection (Tachymeter, targets, wheel measurement device, supports...)
— Meeting the highest safety standards with qualified operators and dedicated processes

OPERATING MODE
— Audits are carried out either during production or equipment shut-down (hot or cold kiln alignment)
— On-site intervention for measurement and diagnosis (2 to 4 days)
— Equipment adjustment and alignment (according to the diagnosis)

Audit
— Civil measurements (civil piers supports, mapping of the environment, slope...)
— Mechanical measurements (frames, supports...)
— Thermal measurements
— Rotating parts audit (theoretical axis of the tyres, real shell axis...)
— First diagnosis and on-site debriefing

Recommendations
— Detailed audit report with 3D presentation of the measures (geometrical, mechanical and thermal analyses)
— Detailed recommendations with prioritized action plan for maintenance operations

Intervention and follow-up
— Kiln adjustment performed by a mechanical expert, according to the audit results (adjustment of the rollers...)

Optional audit: shell deformation
For an even comprehensive audit, Fives carries out, as an option or a stand-alone service, the shell deformation expertise:
— Measurement of the shell deformations
— Shell ovalities determination
— 3D video modeling kiln behavior
— Bricks fall risks prediction according to FCB model
— Conclusion and recommendations

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