



KILN
INSPECTION
AND SOLUTION

KEY BENEFITS

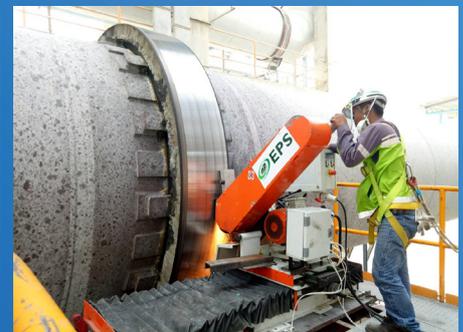
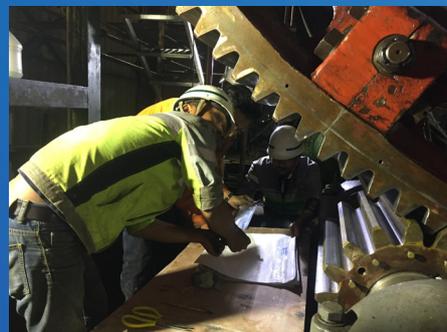
KILN INSPECTION

Kiln Inspection is considered a critical part for kiln preventive maintenance. A periodical hot kiln inspection has multiple benefits as follows:

- Extended kiln life and higher reliability
- Reduced kiln stoppages due to unforeseen problems
- Reduced production loss and maintenance cost
- Better preparation for planned maintenance
- Alignment can be done during normal kiln operation

SCOPE OF SERVICES

- Kiln Axis
- Kiln Shell Ovality
- Kiln Shell Crank
- Kiln Drive
- Mechanical Condition of Tyre and Roller



All advanced measurement analysis for the lists as mentioned above shall be carried out by experienced specialist team, during normal kiln operation, with special/ advanced tools & equipment and visual inspection. After that, the follow-up meeting shall be held for the brief of kiln inspection with immediate action recommendations.

Finally, the full report shall be submitted to our customers for the comprehensive kiln inspection within 7-10 days.

KEY BENEFITS

KILN SOLUTION

Not only the comprehensive service packages for Kiln Inspection are we ready to offer, we are the One Stop Service for Kiln Solution. Key benefits for kiln solution services are as follows :

- Extended service life of kiln
- Increased plant operational availability
- Reduced breakdown maintenance
- Better plan and preparation for spare parts
- On the job training and knowledge sharing with maintenance staffs

SCOPE OF SERVICE



No.	Description	
1	Kiln Inspection	
1.1	Hot kiln inspection	1.2 Cold kiln inspection
	<ul style="list-style-type: none"> • Kiln axis deviation • Kiln shell ovality/ migration • Kiln shell crank/ deformation • Kiln axis loading balance • Mechanical of tyre and supporting roller • Mechanical of Girth gear and pinion • Kiln drive vibration • Visual inspection 	<ul style="list-style-type: none"> • Kiln shell thickness check by UT • Girth gear and pinion inspection <ul style="list-style-type: none"> - Tooth contact condition inspection and record - Root clearance check • Supporting roller shaft crack check by UT • Girth gear clamping bolts crack by UT & Retightening • Thrust roller shaft crack check by UT • Kiln drive alignment check • Bearing side gap check (Need to open top cover of bearing housing) • Visual inspection
2	Kiln Adjustment	
	<ul style="list-style-type: none"> • Kiln axis correction • Kiln axial balance correction • Girth gear root clearance correction 	
3	Kiln Maintenance and Overhaul	
	<ul style="list-style-type: none"> • Kiln shell replacement (Fabrication, preassembly and installation) • Girth gear and pinion reverse/ replacement • Girth gear realignment • Tyre replacement • Tyre and supporting roller surface grinding • Supporting roller replacement • Supporting roller bearing scraping • Tyre alignment (Wobbling) & Side guiding gap adjustment • Slide shoe replacement/ insert shim plate under slide shoe • Kiln drive realignment 	

RECOMMENDATION

SERVICE MENU



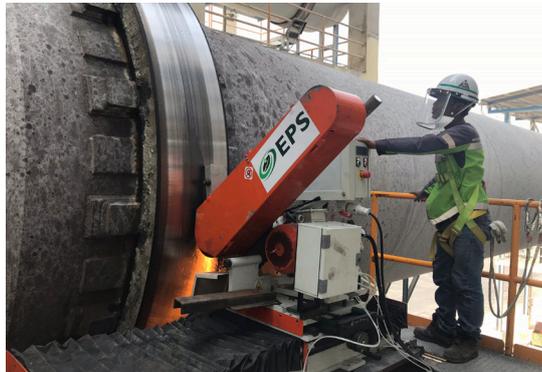
Hot kiln inspection



Every 2 years



Surface grinding for tyre & roller



Every 4-5 years



Kiln shell replacement



Every 6-8 years



Girth gear reversal



Every 8-10 years



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