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AREA OF CONCERN
The body & rotor wears out due to heavy handling of material & its abrasiveness. The gap between rotor blades & body increases making it difficult to control feed rate and smooth operation of rotor.

SOLUTION
Refurbish the body and rotor with added features like use of ‘Hardox’ or ‘Enduraplates’ or ‘Cast-fused’ liners for enhanced resistance to severe abrasion. The performance life is enhanced considerably.

APPLICATIONS
Limes Stone, Clinker, Slag or Coal.

KEY PROCEDURE
- Removal of worn-out parts
- Fabrication of new parts
- Machining of rotor & body
- Fitting of new liners & assembly
- Balancing & finishing

SOME OF OUR END USERS
- ACC Ltd.
- OCL India Ltd.
- UltraTech Cement Ltd.
- Prism Cement Ltd.
- Nuvoco Vistas Corp. Ltd.
- Ambuja Cements Ltd.
AREA OF CONCERN
a) Rollers getting wear out due to heavy handling of material & it’s abrasiveness, under very high pressure. The gap between rollers increases making it difficult to control required size.
b) Chunks of base material coming out of roller, disturbing it’s balance and grinding efficiency.

SOLUTION
Refurbish roller by removing old deposit, rebuilding it by automated WOL process and profiling – all in controlled welding conditions and temperatures. The performance life is enhanced considerably and we ensure that Chunks won’t come out during operation.

APPLICATIONS
Limes Stone, Clinker or Slag.

KEY PROCEDURE
- Removal of old hard deposit & levelling of surface
- NDT of roller & shaft
- Repair of cracks if any and filling of craters locally
- Stress relieving
- Weld build-up & hard deposit
- Profiling & finishing
- Inspection

SOME OF OUR END USERS
- JK Lakshmi Cement Ltd.
- Maihar Cement
- Manikgarh Cement
- Vasavadatta Cements
- UltraTech Cement Ltd.
- Nuvoco Vistas Corp. Ltd.
- Orient Cement Ltd.
- Ambuja Cements Ltd.
- Shree Cement Ltd.
- ACC Ltd.
AREA OF CONCERN
The ID of the bearing housing wears out due to relative motion between bearing and housing. This results in free rotation of bearing and may cause loss of lakhs of rupees due to seizure or breakage of bearing. The cost of bearing, cost of bearing change and loss of productivity are main concern.

SOLUTION
Refurbish the body at ID and carry out machining.

APPLICATIONS
All roller presses used for Limes Stone, Clinker or Slag.

CRITICAL
Tolerance and co-centricity of repaired area.

KEY PROCEDURE
- Undercut
- Build-up of worn out surface
- NDT of roller & shaft
- Repair of cracks if any
- Stress relieving
- Finished machining
- Inspection

SOME OF OUR END USERS
- Orient Cement Ltd.
AREA OF CONCERN
The crack may develop rapidly in tyres if continued to work in the kiln. Tyres are casted and not readily available. Lead time to supply may vary from 4 months to a year and mostly imported. Huge down time resulting in production loss as well as cost involved in tyre replacement. Developed CREEP may cause further damage to other parts of Kiln if tyre is allowed to run without repair.

SOLUTION
Detect and repair cracks in tyre, carry out PWHT and run the kiln till new tyre arrives. Ador has performance proven welding consumables and Quick Response Team to undertake this repair work.

APPLICATIONS
All tyres used in rotary kilns or driers or coolers of Cement, Steel, Chemical or Fertilizer plants.

KEY PROCEDURE
- NDT of tyre to mark exact location of cracks
- Arresting cracks to prevent further propagation
- Removal of cracks & surface preparation
- Weld build-up
- PWHT & finishing
- Inspection

SOME OF OUR END USERS
- India Cements Ltd.
- Shree Digvijay Cement Co Ltd.
- Saurashtra Cement Ltd.
- Shree Cement Ltd.
- UTCL Rawan
AREA OF CONCERN
MMAW of joints may take up to 6 to 8 days depending upon thickness of shells. Thus, warranting more time of shutdown. This is essential activity and can’t be avoided. Being MMAW, quality of welding within a joint itself may vary depending upon welder’s skill. Uneven fusion, development of stresses and non-uniformity of welding may lead to bad quality.

SOLUTION
Deployment of SAW process cuts down welding time by at least 4 to 5 days! Thus, saving lots of shut-down time. Strictest control over welding parameters ensure uniform weld bead quality, generation of lesser/negligible stresses and almost ZERO defects.

APPLICATIONS
All rotating equipment like kilns, ball mills, drier drums or cooler drums used in Cement, Steel or Chemical plants.

KEY PROCEDURE
- Root run welding & gouging
- NDT of shell & joint
- Repair of cracks/defects if any
- SAW
- Inspection
AREA OF CONCERN
None. ADFL offers turn-key solution with fabrication and services at one stop.

APPLICATIONS
All rotating equipment like kilns, ball mills, drier drums or cooler drums used in Cement, Steel or Chemical plants.

KEY PROCEDURE
- Fabrication of shell, NDT and dispatch
- Mobilization of crew & equipment
- Preparatory work before shutdown
- Runout & ovality measurement, Shell cutting & fitting of new shell
- Alignment and welding
- NDT
- Inspection

SOME OF OUR END USERS
- Ramco Cements Limited
- Maihar Cement
- Cement Corp. of India
LIFE ENHANCEMENT OF INDUSTRIAL COMPONENTS
KILN - SUPPORT AND THRUST ROLLS
TOTAL REFURBISHMENT WORN OUT ROLLERS OR REPAIR OF CRACKS.

AREA OF CONCERN
The support roller body wears out TAPER due to heavy load of kiln. Shaft also develops scratches at seal area. Thus, uneven load on rollers may tend to develop cracks and oil leakage.

SOLUTION
ADFL offers rebuilding of barrel of rollers and repair of shafts, at the same time maintaining surface finish, critical dimensions and stress-free component. Refurbishment id done by welding as well as thermal spray coatings.

APPLICATIONS
All rotating equipment like kilns, ball mills, drier drums or cooler drums used in Cement, Steel or Chemical plants.

KEY PROCEDURE
- Undercut over roller & shaft & levelling of surface
- NDT of roller & shaft
- Repair of cracks if any and if repairable
- Weld build-up & Stress relieving
- Finished machining
- Inspection

SOME OF OUR END USERS
- Maihar Cement
- Manikgarh Cement
- Vasavadatta Cements
AREA OF CONCERN
The crack may develop rapidly in mill heads if mill is continued to work. The mill Trunion heads are very thick and may be accessible only from out. Changing mill heads warrants availability of mill head which is very remote and also lead time to supply may vary from 4 months to a year. Huge down time resulting in production loss as well as cost involved in replacement. Developed CREEP may cause further cracks in head if mill is allowed to run without repair.

SOLUTION
Detect and repair cracks in mill head, carry out PWHT and run the mill till new mill head arrives. Ador has performance proven welding consumables and Quick Response Team to undertake this repair work.

APPLICATIONS
All balls mills used for grinding Clinker, Slag or Limes stone in Cement plants.

KEY PROCEDURE
• NDT of Trunion to mark exact location of cracks
• Arresting cracks to prevent further propagation
• Removal of cracks & surface preparation
• Weld build-up
• PWHT & finishing
• Inspection

SOME OF OUR END USERS
• Manikgarh Cement
• UltraTech Cement Ltd.
• JK Lakshmi Cement Ltd.
• Binani Cement Ltd.
• Ambuja Cements Ltd.
• Vasavadatta Cements
• Sanghi Industries Ltd.
• Heidelberg Cement India Ltd.
• Shree Cement Ltd.
• Maihar Cement
AREA OF CONCERN
Rotor discs & Shaft wears out due to heavy handling of material & it’s abrasiveness. The enlarged pin diameter and thinning of discs makes it difficult to operate rotor smoothly. Many times, blow bar holder also breaks making it impossible to operate.

SOLUTION
Refurbishment is carried out by replacement of all discs but retaining used shaft in case of hammer crusher. For Blow Bar Crusher Rotor, total health check-up of rotor is carried out for cracks etc.

APPLICATIONS
Limes Stone, Clinker or Slag.

KEY PROCEDURE
• Removal of old discs
• Levelling of shaft surface
• NDT of shaft
• Procurement, cutting & machining of new discs
• Fitting and alignment of new discs over used shaft
• Joining of new discs by welding and Stress relieving
• Hard deposit over wear prone area of discs
• Line boring & finishing
• Inspection

SOME OF OUR END USERS
• JK Lakshmi Cement Ltd.
• Prism Cement
• Ambuja Cements Ltd.
• Nuvoco Vistas Corp. Ltd.
AREA OF CONCERN
The OD or ID of roller/ hub gets wear out due to relative motion of tyre or bearings, loosening tyre or bearing or both making the roller inoperational.

SOLUTION
Roller's MOC is usually either Cast Steel or Cast Iron. Rebuilding of surface in case of later is very expensive comparative to former. Hence, it is essential to know MOC before we quote. Undercut, heat treatment, WOL build-up, NDT and finished machining is done.

APPLICATIONS
VRM rollers used in grinding of Limes Stone, Clinker, Slag or Coal.

KEY PROCEDURE
- Undercut over roller & levelling of surface
- NDT of roller
- Repair of cracks if any and if repairable
- Weld build-up & Stress relieving (PWHT)
- Finished machining
- NDT
- Inspection

SOME OF OUR END USERS
- Chettinad Cement Corporation Ltd.
- Binani Cement Ltd.
AREA OF CONCERN
The tyre/shell & table liners wear out due to heavy amount of material handled and it’s abrasiveness. The gap between tyre & table liners as well as crushing angle change reducing the output of the VRM thus reducing efficiency and power consumption.

SOLUTION
Rebuild the worn-out surface by automated, electronically controlled WOL process using flux cored wires. The WOL deposit is far superior than the base material, metallurgically, offering excellent wear resistance. With our FCW, it is possible to rebuild multiple layers for as high as 80 mm thickness!

APPLICATIONS
Limes Stone, Clinker, Slag or Coal.

SPECIFIC REQUIREMENT
For faster delivery, please mark all table liners or segments of roller for numbers as well as directions. This will reduce the time required for matching profile, considerably.

KEY PROCEDURE
- Removal of old hard deposit & levelling of surface
- NDT of rollers/roller segments/tyres and table liners
- Weld build-up hard deposit and matching profile/angle
- Finishing
- Inspection

SOME OF OUR END USERS
- India Cements Ltd.
- Ramco Cements Ltd.
- Raymond Cement
- UltraTech Cement Ltd.
- Manikgarh Cement
- Vasavadatta Cements
- Gujarat Sidhee Cement Ltd.
- JK Cement Ltd.
- JK Laxmi Cement Ltd.
- Maihar Cement
- ACC Ltd.
- Birla Corporation Ltd.
- Ambuja Cements Ltd.
- Prism Cement Ltd.
AREA OF CONCERN
The classifier rotor is subjected to severe, high velocity particle erosion by material being ground in VRM.

SOLUTION
Refurbish the rotor by replacing vanes and hard-facing new vanes for added wear resistance. Other options like use of ‘Hardox’ or ‘Enduraplates’ or ‘Cast-fused’ liners for enhanced resistance to severe abrasion are also available. The performance life is enhanced considerably.

APPLICATIONS
Limes Stone, Clinker, Slag or Coal.

KEY PROCEDURE
• Removal of old worn-out vanes & flanges
• Manufacture of new vanes & flanges with hard facing
• Assembly, alignment & welding of vanes & flanges
• Finishing & balancing
• Inspection

SOME OF OUR END USERS
• Prism Cement Ltd.
• UltraTech Cement Ltd.
• Nuvoco Vistas Corp. Ltd.
• Orient Cement Ltd.
THE COMPANY
Ador Fontech Limited was incorporated on August 22, 1974 and set its course on repair welding from December 1, 1979. Initially, it started functioning as a trading unit under the banner of ‘Cosmics General Engineering’. Thereafter, a process was initiated to bring in the best of technology to India from across the globe. Through dint of application engineering, the Company enriched itself to become a manufacturing organisation and today, it is a total solution provider.

VISION
Our vision is to be considered as the partner of first choice by our customers.

MISSION
Our mission is to partner with our customers in implementing value-added reclamation, fusion, surfacing, spraying and environmental solutions.

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