



- Consultation
- Inspections
- Alignment services
- Refurbishments
- Tyre/Roller surface reconditioning
- Gear installations
- Maintenance planning

WORLDWIDE KILN SERVICES



ALIGNMENT

- Survey carried out using hard contact and fixed datum methods.
- Tyre and roller diameters are measured during normal operation with the aid of an electronic measuring device that is accurate up to 0.10mm. this allows for accurate profiling of wear conditions and averaging for alignment.
- The aim is to achieve correct alignment of the kilns' actual centre line which is achieved by considering the whole assembly including the mesh of the drive girth gear and pinion.



RECONDITIONING

- Rollers and tyres can be machined, ground, lished or tapered using out purpose built reconditioning unit to recondition tyre and roller surfaces, correcting any uneven wear.
- A purpose built reconditioning unit can be adapted to suit most rotary kiln designs and can be transported worldwide to meet customer requirements.
- Tyre and roller diameters are measured prior to and after reconditioning to confirm profiles are flat and parallel to the centre line axis.



MAINTENANCE PLANNING

- Major maintenance projects need careful planning to ensure timely and correct performance.
- Correct procedure and methods are required in order to achieve optimum equipment performance on start up.
- Alignment tolerances are maintained during installations and repair outages.



1. KILN ALIGNMENT SURVEYING

Survey by hard contact method:

- Check alignment of the kiln.
- Realign kiln to ensure smooth running.



2. ESTABLISHMENT OF KILN CENTRE LINE

This enables datums to be established from which future measurements can be taken.



3. ROLLER ALIGNMENT

Rollers are aligned using the hard contact method from direct centre lines.



4. MEASUREMENT OF ROLLER & KILN TYRES

Diameters are measured electronically with an accuracy of 0.10mm. This forms part of the critical information needed to give correct kiln alignment.



5. MACHINING TYRES & ROLLERS

Kiln tyres and rollers can be machined or ground on-site.



6. SHELL CHANGEOUT AND/OR STRAIGHTENING

- Kiln shells up to 15m dia. can be measured on-site and manufactured by Hofmann Engineering.
- The Hofmann Engineering site team can perform shell change-outs and straightening using in situ sub arc welding.



7. GIRTH GEARS

The manufacture, installation, reversal, reconditioning and alignment of kiln girth gears can be supplied:

- Site measure pinions and gears.
- Manufacture complete gearing in-house.
- Install and align with Hofmann's site crew.
- Site gear reconditioning available.
- Hofmann open gear lubrication.

HOFMANN ENGINEERING PTY LTD

3 Alice Street, Bassendean (Perth) Western Australia 6054 T +61 8 9279 5522 F +61 8 9279 9386 E mail@hofmannengineering.com

©Copyright 2019, Hofmann Engineering Pty Ltd.

AUSTRALIA: PERTH | MELBOURNE | BENDIGO | NEWCASTLE
INTERNATIONAL: CHILE | PERU | INDIA | CHINA | NORTH AMERICA

www.hofmannengineering.com