

## KILN SERVICES

- Consultation
- Inspections
- Alignment Surveys
- Refurbishments
- Tyre / Roller surface Reconditioning
- Gear installations
- Maintenance Planning

*Since 1969 Hofmann Engineering has provided specialist engineering services to Australia's industry leaders.*

*Quality Assurance certification by Lloyds complements our total quality culture.*

*Our commitment to continuous quality improvement touches every aspect of our products, services and customer support.*

### HOFMANN ENGINEERING PTY LTD

3 ALICE STREET,  
BASSENDEAN, PERTH,  
WESTERN AUSTRALIA 6054

Telephone: +61 8 9279 5522

Facsimile: +61 8 9279 9386

Net: [www.hofmannengineering.com](http://www.hofmannengineering.com)

Email: [mail@hofmannengineering.com](mailto:mail@hofmannengineering.com)



## WORLD WIDE KILN SERVICES



### ALIGNMENT:

- Survey carried out using hard contact and fixed datum method.
- Tyre & Roller diameters are measured during normal operation with the aid of electronic measuring device that is accurate up to 0.10mm. This allow accurate profiling for wear conditions and averaging for alignment
- Basis of the alignment is to achieve correct alignment of the units actual centre line which in turn is positioned in relation to the meshing characteristics of the main drive girth gear and pinion.

### RECONDITIONING:

- Rollers and tyres can be machined, ground or finished to recondition tyre and roller surfaces, correcting any uneven wear and or taper using our purpose built reconditioning unit.
- Our purpose built reconditioning unit can be adapted to suit most rotary kiln designs and can be transported world wide to meet customer requirements.
- Tyre & 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 procedures and methods required in order to obtain equipment performance on start up.
- Alignment tolerances maintained during installations and repair outages.





### 1. KILN ALIGNMENT SURVEYING

Survey by hard contact method.

- Check alignment of the kiln.
- Re-align kiln to ensure smooth running.



### 2. KILN CENTRELINE SETTING

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



### 3. ROLLER ALIGNMENT

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



### 4. ROLLER & KILN TYER MEASUREMENT

Electronic measuring of diameters accurate to 0.10mm.

This is critical as part of the information needed to give correct kiln alignment.



### 5. MACHINING TYERS & ROLLERS

Machining of roller by tool to obtain optimum material removal. Both kiln tyers and roller can be machined or ground on-site.



### 6. SHELL CHANGE-OUT

Shell change-out and straightening.

- Shells can be site measured and then manufactured by us up to 15m in dia.
- Site shell change out and straightening including in-situ sub arc welding can be performed by the Hofmann site team.



### 7. GIRTH GEARS

Girth gear manufacture, installation, reversal, reconditioning and alignment.

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