

## SMP Provides Specialised Magnetic Separator Maintenance Team

The Karara Iron Ore Project is a joint venture between Ansteel Group and Gindalbie Metals Limited. Located 200km east of Geraldton, Western Australia and consists of a substantial, long-life, magnetite concentrate deposit. It is the first major magnetite operation in the Mid-West Region.

SMP Engineering provides ongoing support with an experienced team to perform repairs, replacement and preventative maintenance tasks on 126 magnetic separators, of which 48 are 850 gauss and the remainder are 1150 gauss. This includes daily inspection of critical mechanical items and the monitoring of lubrication systems.

Key tasks include:

- + Full assembly assessment and component diagnosis during plant operations
- + Identify and schedule in units for corrective actions
- + Inspect baths for rubber damage and arrange repair
- + Open feed manifold and check for blockages and wear
- + Strip drum, check for damage to shafts and end plates
- + Order new bearings, plumber blocks, labyrinth and key components
- + Reassemble to Manufacturers specifications
- + Reinstall drums, including setting magnet angle and gaps to weir as stated by the engineering team



*“SMP Engineering has done some great work on improving the reliability of the magnetic separators, which has increased overall availability and performance of our processing plant.” Peter Gallagher, Manager - Maintenance & Plant Engineering*

### Contact Us

Call the team at SMP Engineering for all your structural, mechanical and piping needs on 9412 8000. More project case studies can be viewed at [www.smpeng.com.au](http://www.smpeng.com.au)

Structural+Mechanical+Piping+Engineering

### Project Key Facts

#### Project Owner

Karara Mining Pty Ltd

#### Project

Karara Iron Ore Project

#### Client

Karara Mining Pty Ltd

#### SMP Scope

Provide a specialist maintenance crew for the ongoing inspection and maintenance works of magnetic separators.

### Project Highlights

- + Full assessment of magnetic separators and scheduling of any required actions
- + Complete assembly removal, repair and reinstatement to manufacturers specifications
- + Significant improvement in availability and total throughput of plant
- + Able to achieve nameplate production levels
- + Reduced planned shut downtime
- + All works completed with zero LTI's