

CASE STUDY

CARINA IRON ORE PROCESSING FACILITY

PROJECT PROFILE

The Carina Iron Ore Processing Facility commenced operation in September 2011 with the first delivery to the port in early November.

Carina deposit contains an estimated 21.4 million tonnes of iron ore.

Ore is mined from an open pit, crushed, screened and transported by rail to the Port of Fremantle for export.

The single open pit is approximately 40 HA in area.

PRODUCTS HANDLED

- Iron Ore

CAPACITY

- Carina currently delivers 4.4 MTPA of Iron Ore
- Site comprises of primary crushing along with fines and lump product stacking & reclaiming

PRODUCTS USED

- GE RX3i PLCs
- CitectSCADA
- PROFIBUS DP network on each PLC for motor control and instrumentation
- Ethernet network over fibre optic backbone using Cisco 2960 VLAN switches
- Radio communications link to stacker



SCOPE OF WORKS

- Construction of a crushing and screening plant
- June 2012: All construction works fully completed, commissioned and handed to CSI to operate and maintain

OUR INVOLVEMENT

- Turnkey design, construction and commissioning
- Upgrade the equipment from Dalian Joyum Heavy Industries (China) to comply with Australian Standards
- Automation, electrical, instrumentation and SMP construction and commissioning of all conveying, crushing, stockyard machines including two stackers and a reclaimer
- Quality assurance inclusive of all testing and verifications
- Interfaces to existing plant and equipment
- Management of Subcontractors