CADDS GROUP

MINING & PORT SPECIALISTS

INTEGRATED SOLUTIONS ACROSS THE BROWNFIELD LANDSCAPE

30 YEARS

Design

Engineering

Geospatial

Fabrication

Project Management & Support Services

PROJECT MANAGEMENT

- Business Case Development & Scope of Works
- Optioneering & Technical Specifications
- Secondment of Specialist or Technical Personnel
- On-Site Support During Installation & Commissioning

DESIGN & DRAFTING

- 3D Modelling & Design Drawing Generation
- Shop Detailing
- Renders & Animation
- Tier 1 Design & Drawing Compliance

STRUCTURAL ENGINEERING

Design & Engineering

- Maintenance & Access Solutions
- Overhead Protection & Shedders
- Belt Splice Stations
- Concrete Bunding & Drainage

Asset Integrity Assessments

- On-site Assessments
- Retrospective Certification & Documentation
- Engineering Reports

New & Existing Build Expansions

- Workshops & Storage Shelters
- Overhead Cranes
- Mezzanine

MECHANICAL ENGINEERING

Design & Engineering

- Chute Design & Replacement
- Conveyor Design & Upgrades
- Optimisation & De-bottlenecking
- Flow Analysis using Discrete Element Modelling (DEM)
- Automation

Hydraulics & Piping

- Equipment Selection & System Layout
- Tank Replacement & Upgrades
- Hydraulic Design including Pressure & Flow Calculations
- P&ID, Isometric, 2D/3D Routing & Modelling
- As-built & Retrospective Shop Detailing

Lifting & Transport

- Lifting Arrangements & Studies
- Equipment Handling & Installation Methodologies
- Transport Frames, Lifting Beams & Jigs
- Transport Load Review

GEOSPATIAL SERVICES

- As-built Scan to Model
- Clash Detection
- Wear Analysis
- Design vs As-built Analysis
- Feature Topographical Digital Extraction
- 3D Photogrammetry

SURVEYING SERVICES

- 3D Laser Scanning
- Coordinated Point Clouds
- Feature Surveys
- Aerial Mapping & Topographical Photogrammetry
- Civil, Structural As-built/Setout
- Conveyor & Ancillary Alignments/ Reporting
- Volumetric Surveys

ELECTRICAL ENGINEERING

Power System Design

- Transformers & Generators
- Substations
- Distribution Boards
- Final Power Distribution

Control System Design

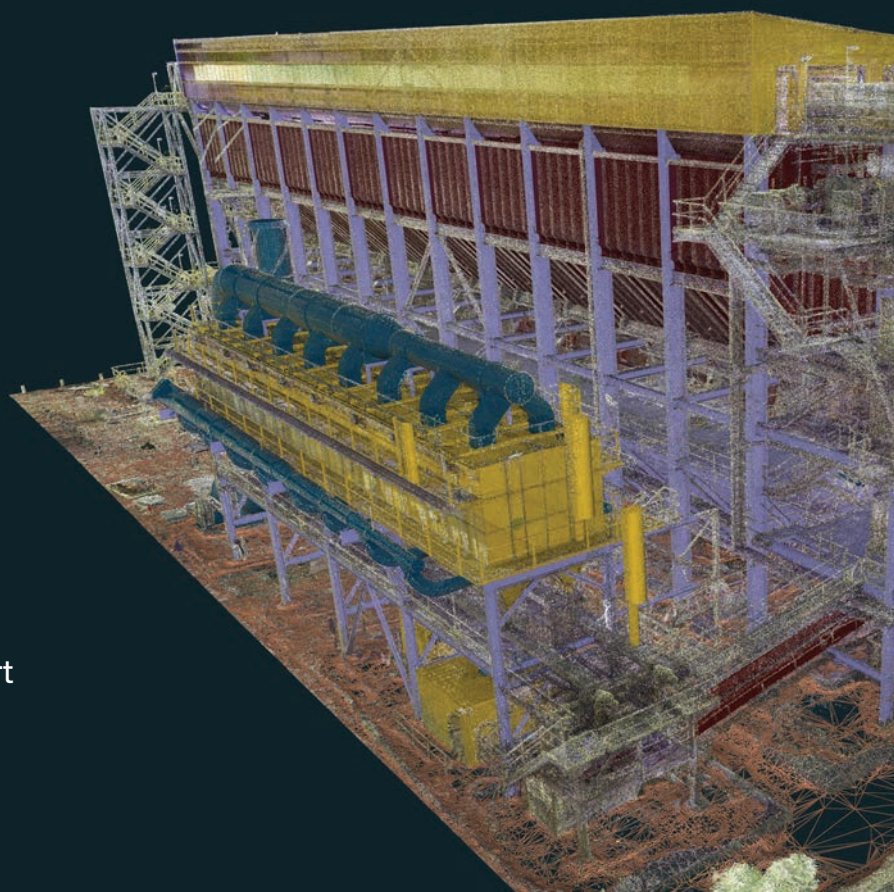
- Switchgear Assemblies
- Drives
- Local/Remote/Distributed I/O
- Field Controls & Instrumentation

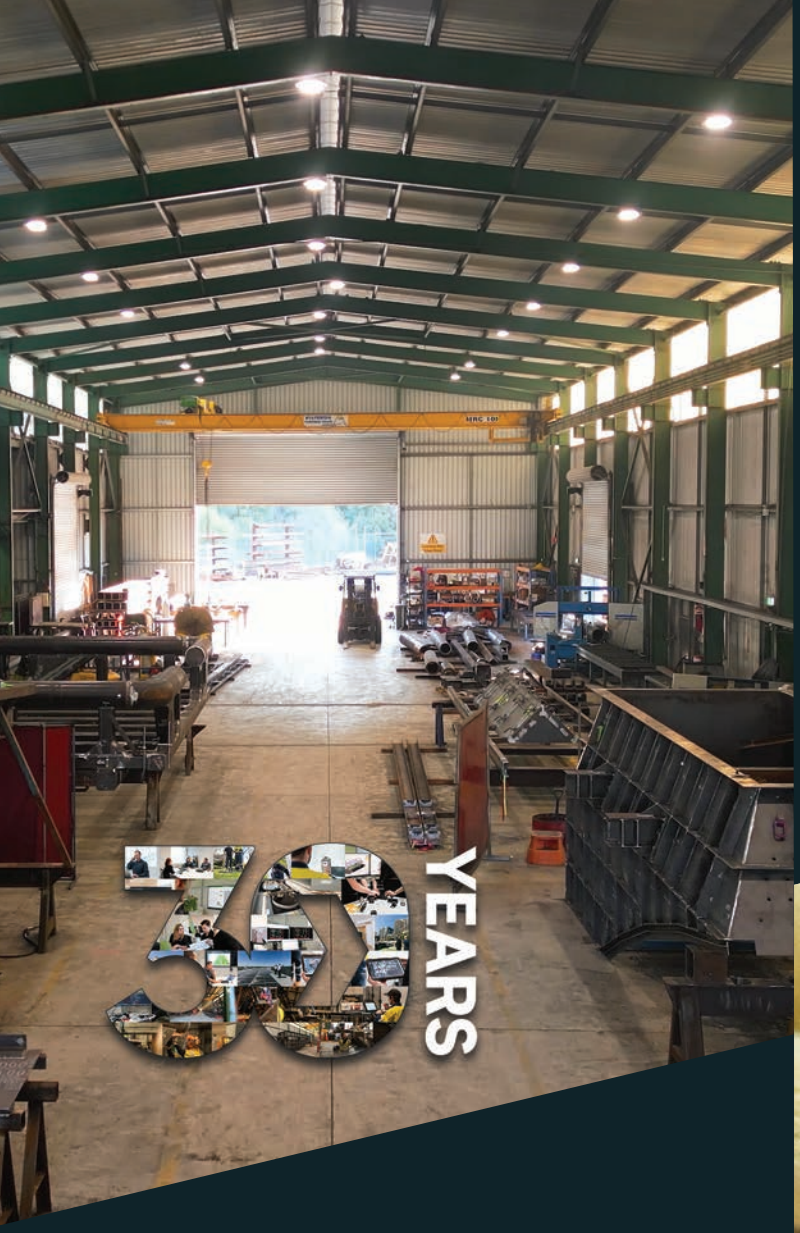
Communication System Design

- Fibre/Copper/Wireless Networks
- Process & Non Process

Site Services

- Site Auditing & Commissioning Support
- Redline Mark-ups & As-builts
- Mass Drawing Updates





CADDS FABRICATION

- Structural & Mechanical Fabrication
- Assembly, Commissioning & Testing - Load, NDT, Hydro
- Transport & Equipment Frames
- Plant & Equipment Upgrades & Overhauls
- Chutes, Launders, Tanks & Silos
- Heavy Duty Stands, Plate Racks
- Maintenance Solutions
- Safety Platforms, Structural Framework
- Pipework, Flange & Spool Fabrication
- Stairways, Ladders, Accessways, Access Platforms, Walkway Systems

ADDITIVE MANUFACTURING

- Product Innovation & Industrial Design
- Prototyping & Proof of Concept
- Small Scale Manufacturing
- 3D Printing in Large Range of Metal including 17-4PH Stainless Steel, A2, D2, H13 Tool Steel & Copper
- Polymer printing material includes Onyx, Nylon, Smooth TPU, Precise PLA, Carbon Fiber, Kevlar, Fibreglass & ULTEM 9085

Safety **Intelligence** **Integrity** **Inclusivity** **Collaboration**

RioTinto BHP Monadelphous Fortescue. SOUTHERN PORTS

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Certified System Quality ISO 9001
Certified System Environment ISO 14001
Certified System OHS ISO 45001