



## AUSTLINE FABRICATIONS

COST EFFECTIVE METAL  
FABRICATION AND INSTALLATION,  
DELIVERED WHEN YOU NEED IT

# RESOURCES

## CONVEYOR TRANSFER SYSTEM, NORTH CAPEL MINERAL SEPARATION PLANT

CLIENT: ILUKA  
LOCATION: WA  
YEAR: 2012

### CONVEYOR UPGRADE

In 2012, TFG Group was engaged by Iluka Mineral Sands to assist with the refurbishment of their conveyor transfer system at the North Capel Mineral Separation Plant in Western Australia. The conveyor is designed to transfer 1000 tonnes of mineral sands per day through a synthetic rutile kiln at temperatures reaching 800 degrees Celsius. The high temperature causes systematic wear of the conveyor which required refurbishment by the TFG fabrication team.

### SCOPE OF WORKS

More than 100 metres of conveyor was dismantled and transported to TFG's Welshpool workshop for refurbishment, then transported back to site and integrated with new conveyor systems which included;

- Pod outlet chute assemblies including cut-off gates and vacuum connections

- Pod discharge chain conveyor including fabrication of casings, head and tail in mild steel, chain and drive assemblies and supports

- Connecting chute and blocked chute detector

- Conveyor extensions including casing fabrication and chain assemblies

- Outlet chute assemblies including cut off gates and compensators

- Screening chain conveyor

- Emergency dump chute

- Charge hopper

- Hopper discharge chain conveyor and outlet chute with compensator

- Elevator discharge chute with outlet and buffer hopper

- Bucket elevator including fabrication of casings, chain assembly, bucket supply, drive assembly and blocked chute detectors.

