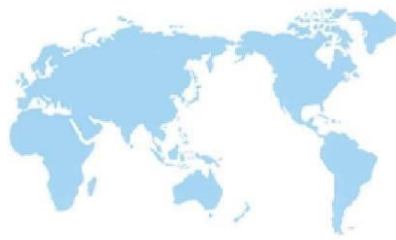

PROJECT EXPERIENCE

Cortex



RESOURCES



**CEMENT INDUSTRY PROJECT
EXPERIENCE**

CORTEX ENGINEERING RESOURCES PTY LTD

Suite 102, 254 Bay Road, Sandringham, Vic. 3191

ichamberlain@cortex.com.au

ph +61 3 9543 5225

fax +61 3 9543 5223

www.cortex.com.au

PROJECT EXPERIENCE

CEMENT INDUSTRY PLANT EXPERIENCE - Background:

CORTEX has long term experience in the design and construction of cement product bulk storage and handling plant for the cement manufacturers and the concrete sectors of the industry, both here in Australia and SE Asia.

Our experience dates back to the inception of the company in 1988 when CORTEX accepted first orders to upgrade the Australian Cement North Melbourne Depot. With attention to improved aeration to the dispatch silos, bulk road tanker loading times were much improved. Also, improved aeration to the cement rail wagons realised a quantum leap in unloading efficiency.

CORTEX has been serving the cement industry over two and a half decades with our design, construct & consulting services. Our client list includes Blue Circle Southern Cement, Australian Cement, Independent Cement & Lime and Queensland Cement. Various rail wagon loading, unloading, cement storage, reclaim and road tanker loading projects have been undertaken.

AUSTRALIAN CEMENT Ltd – WODONGA DEPOT:



Rail wagon unloading system and new 300 tonne capacity bulk cement silo storage and road tanker out-loading upgrade.

PROJECT EXPERIENCE

BLUE CIRCLE SOUTHERN CEMENT:

CORTEX was appointed Prime Contractor to Design and Construct the Islington Bulk Cement Depot (Regency Park) South Australia. A brown field turnkey project complete with all civil works, electrical and controls, dust collection, structural, mechanical engineering and project management.

A warehouse was converted into a horizontal bulk cement storage facility complete with rail wagon in-feed, dust collection, FEL reclaim hopper, screw and bucket elevator to 250 tonne Day silo. The out-loading facility included new weighbridge and telescopic loading spout with bulk tanker loading dust collection.



PROJECT EXPERIENCE



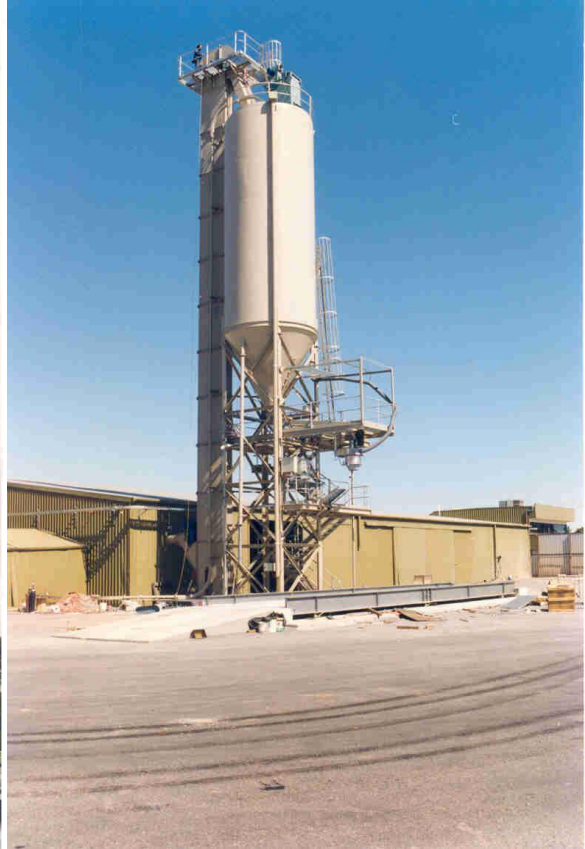
PROJECT EXPERIENCE

Bulk Cement stored in horizontal warehouse storage facility. Cement delivered by pneumatic filler pipe system from rail wagons at siding. Bulk cement is reclaimed by FEL and delivered to hopper, screw conveyor, bucket elevator to 250 tonne Day silo for bulk road tanker loading.



PROJECT EXPERIENCE

Islington 250 Tonne capacity Cement Day Silo with Bucket Elevator under construction:



Islington Bulk Cement Depot 1st Tanker.

Blue Circle Southern Cement Depot Traralgon.



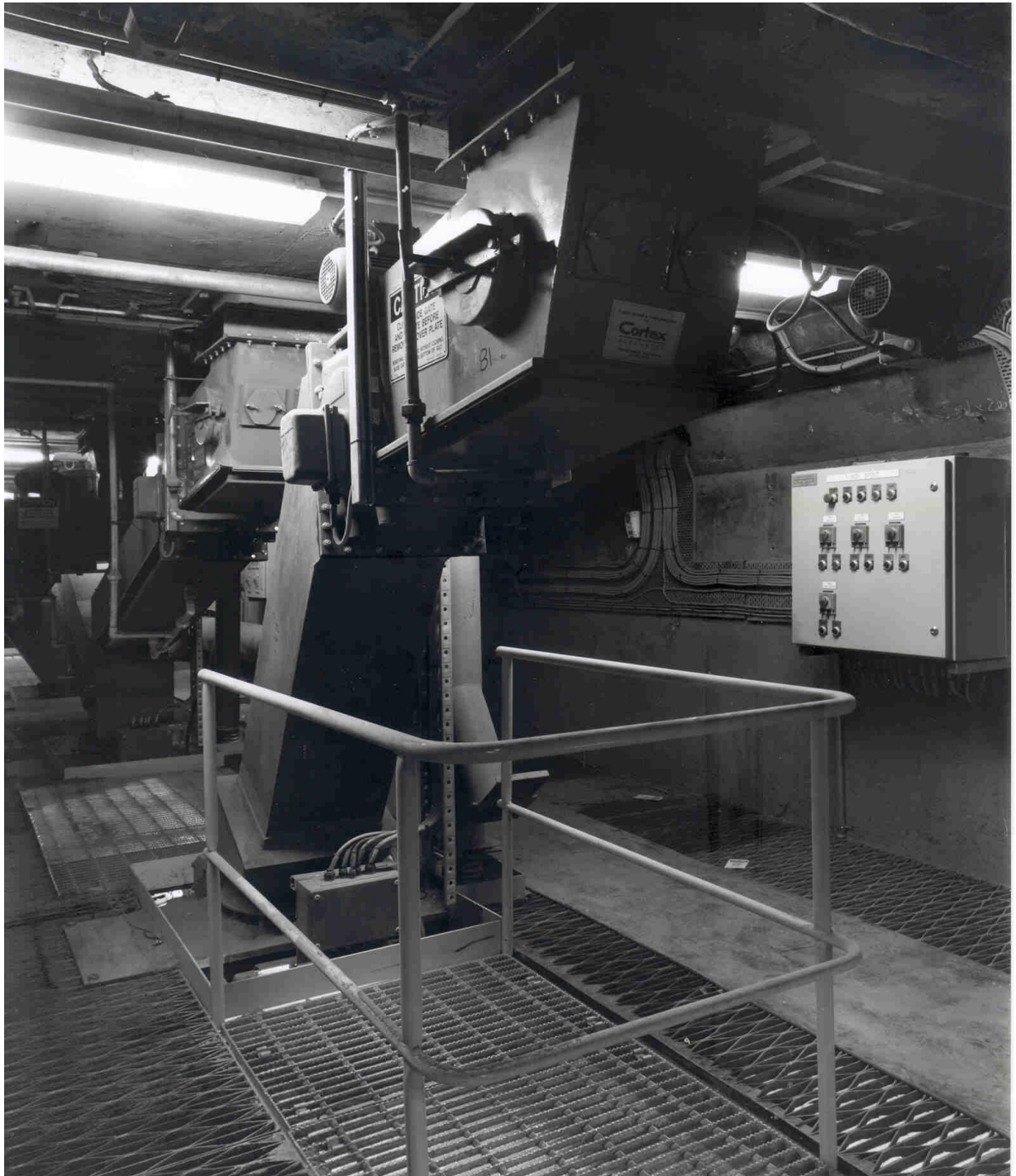
PROJECT EXPERIENCE

GEELONG CEMENT – RAIL OUTLOAD UPGRADE – FYANSFORD SILOS:



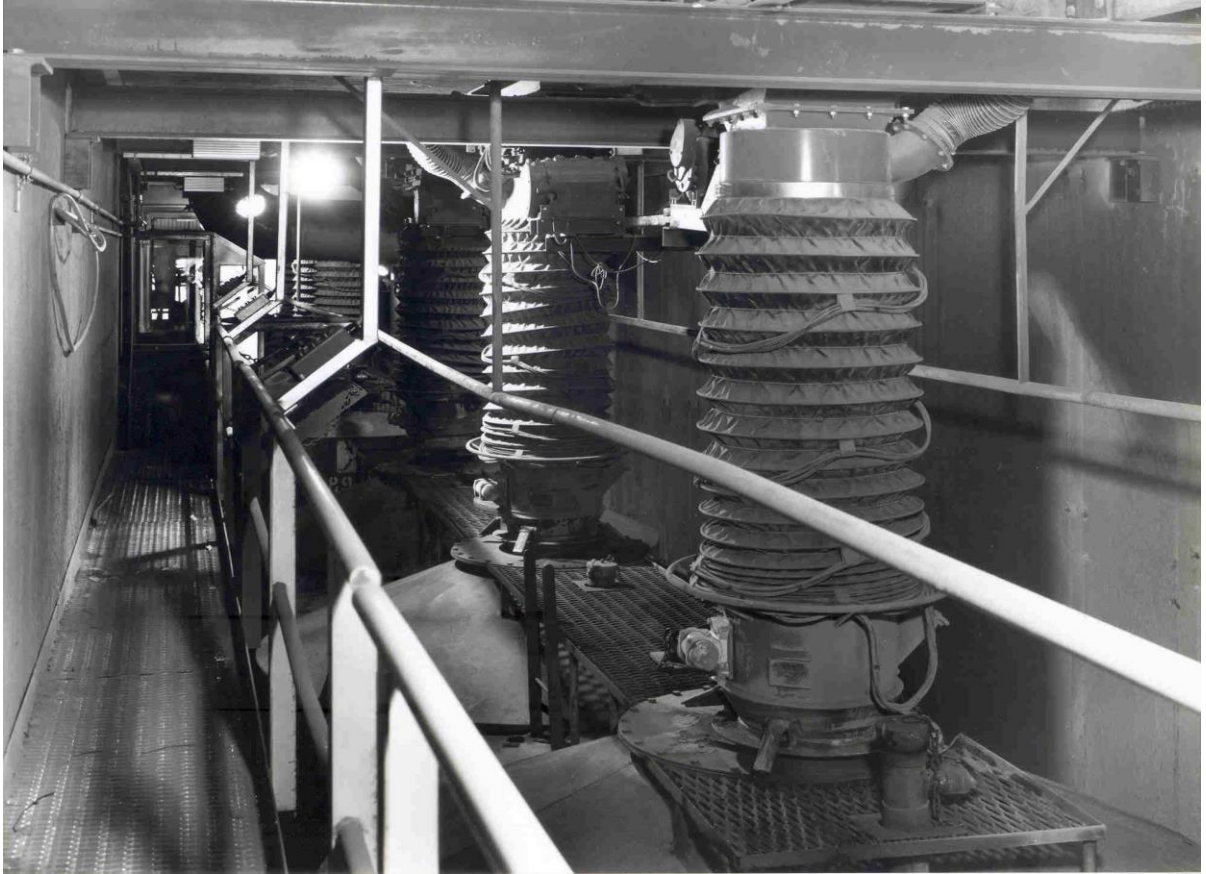
PROJECT EXPERIENCE

GEELONG CEMENT - RAIL WAGON BULK LOADING UPGRADE COMPLETED:

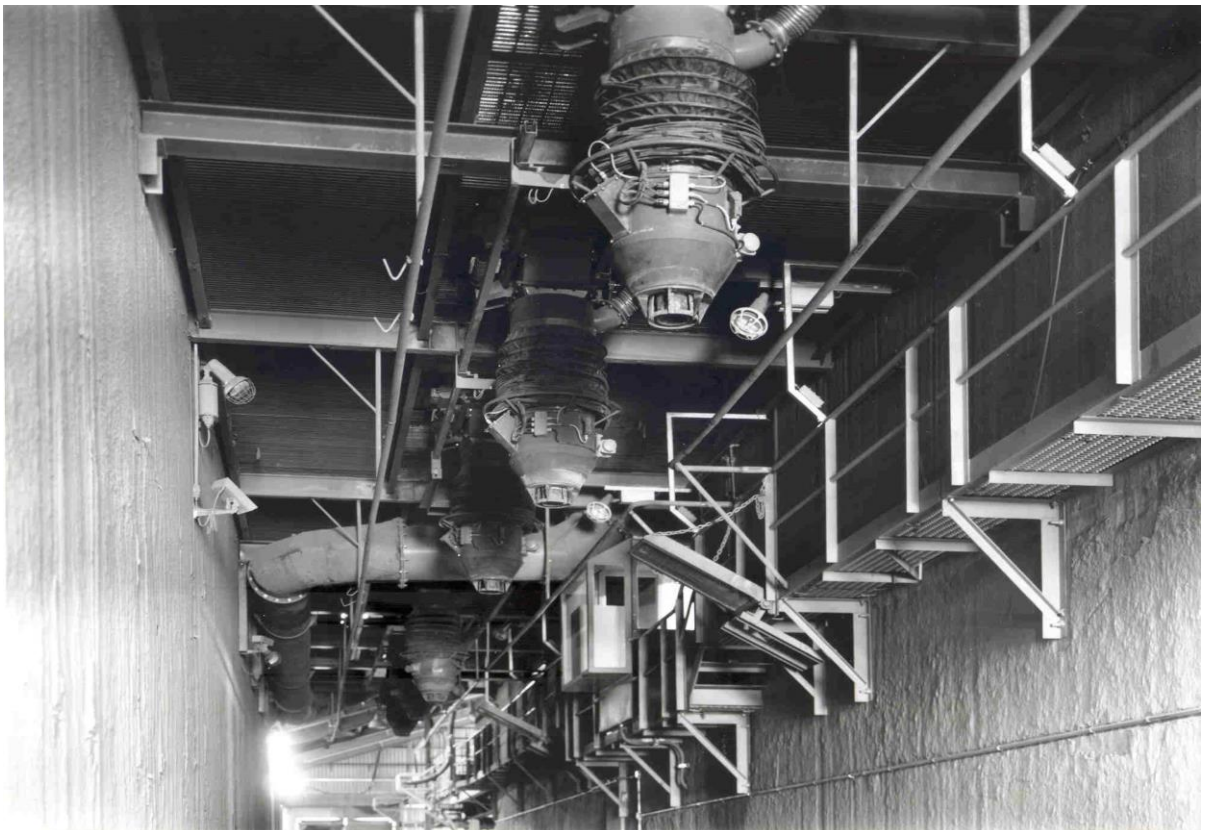


PROJECT EXPERIENCE

GEELONG CEMENT - RAIL WAGON BULK LOADING UPGRADE COMPLETED:



TELESCOPIC LOADING SPOUTS RETRACTED:



PROJECT EXPERIENCE



*Australian Cement Ltd: Geelong.
(left) High Speed
Automatic Bagging
(below) Bag Transportation*



*Australian
Cement Ltd:
Geelong.
Palletising*

CORTEX RESOURCES has gained valuable knowledge in the handling of coarse and fine granular bulk materials by having the engineers on staff, who, between them have 50 years of work experience within the industry. Also, first hand experience has been gained on design and construct projects for which CORTEX RESOURCES has been responsible to complete and to guarantee plant performance.

We have particular expertise in the following areas of materials handling:

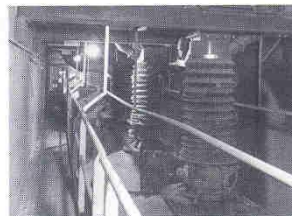
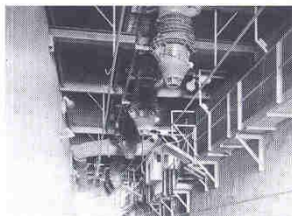
1. Design and build of silos and hoppers.
2. Design and build of mechanical conveying systems: belt, bucket, screw, scrape, grab.
3. Design and build of pneumatic conveying systems, airslides and spouts.
4. Design and build of wagon spotting (positioning) equipment.
5. Design and build of solid waste transfer, compaction and transport container disposal systems.
6. Design and build of sludge waste transformation and disposal systems.

Bagging and palletising of powdered materials requires specific expertise. Selection of the packer head, type and size of bags, material to be bagged and plant capacity required are all critical considerations with which we here at CORTEX RESOURCES are familiar.

The range of palletisers is also wide and varied and the selection of a palletiser to match the packer head output and the plant layout is extremely important.

We are pleased to recommend the most suitable arrangement for your operation and provide you with a quotation for plant design, supply and installation anywhere within the Australasian and South East Asian region.

*Cover:
(large)
South Wharf:
Port Melbourne.
Ship Unloading
Radial Stacker; 1800 tph
(large inset)
Pronto: Port Melbourne.
150 m³/ph Concrete Batch Plant
(small inset)
Boral Australia Gypsum Ltd:
Port Melbourne*



*Australian Cement Ltd: Geelong.
Telescopic Loading Spouts:
(far left) Retracted
(left) extended*

Cortex
RESOURCES

Cortex Resources Pty Ltd

33 Coventry Street, South Melbourne, Victoria, Australia 3205
Tel: (613) 696 4224. Fax: (613) 696 2250

PROJECT EXPERIENCE

HANSON Concrete Batch Plant, Dandenong, Victoria -



PROJECT EXPERIENCE

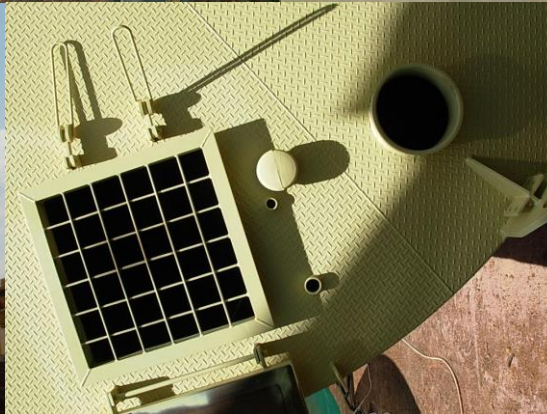
Tritton (Straits) Resources Underground Copper Mine site, NSW – backfill paste plant



2 x 250 M cubed Cement Silos under construction at our Melbourne, Victoria, workshop.

PROJECT EXPERIENCE

Newmont Gold Underground Mine Site, Northern Territory – backfill paste plant.
Fabricated at our Darwin sub-contractor's workshop



PROJECT EXPERIENCE

BLUE CIRCELE SOUTHERN CEMENT – WAURN PONDS ALTERNATIVE FUELS:



WALKING FLOOR HOPPER & SORTING CONVEYORS:



PROJECT EXPERIENCE

BLUE CIRCLE SOUTHERN CEMENT – WAURN PONDS WORKS TYRE HOPPER WITH WALKING FLOOR & ELEVATOR TO TYRE DROP DOOR TO PRE-HEATER:



TYRE TILT-TABLE TO DROP DOOR AND PRE-HEATER:



PROJECT EXPERIENCE

STEEL CEMENT Ltd – SHIP UNLOADER for BULK SLAG at PORT MELBOURNE



Cortex

**Designing & constructing
world class materials handling systems**
www.cortex.com.au