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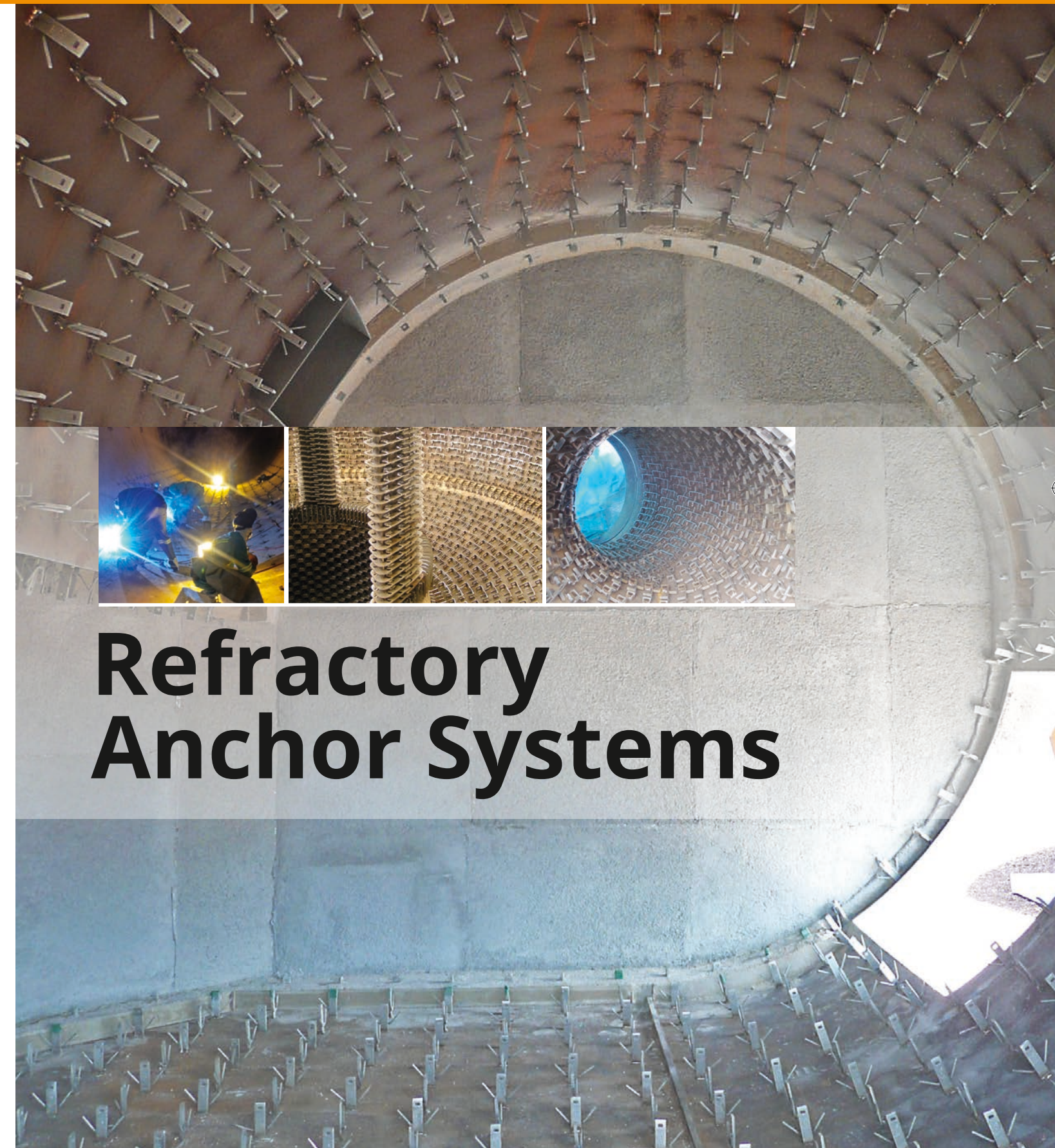
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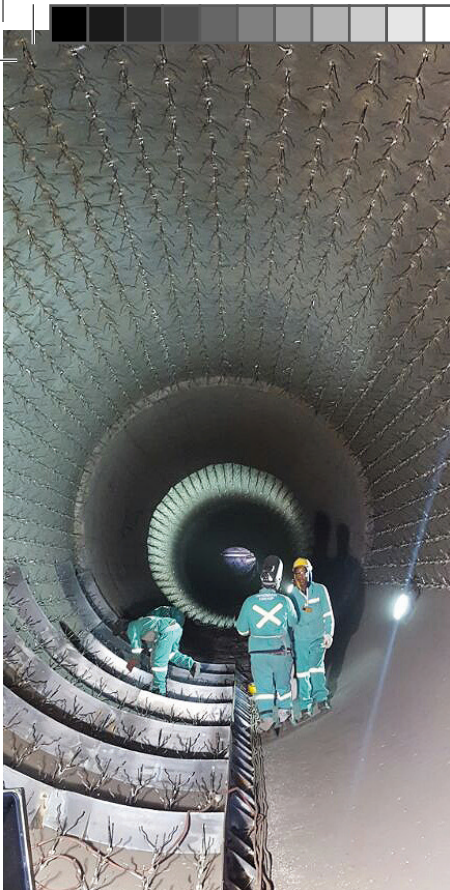
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# Refractory Anchor Systems





### About Antec International

Antec International is a joint venture between Antec Group Australia and Dickinson Group South Africa. Based in Jakarta, Indonesia, Antec International was established to provide customers in the South East Asia region with a high quality, reliable, fast solution to their anchor requirements.

Antec Group have been manufacturing, designing and providing project management solutions for the mineral processing industry for 30 years. They are the leading manufacturer and supplier to the Australia market.

Formed in 1910, Dickinson Group established the Refractory Anchor Systems Division in 1983. Since that time Dickinson Group have been designing and manufacturing standard and custom anchor designs for the Sub-Saharan African markets.

### Product Range

- Refractory Anchors
- Hexmesh
- Punch Tabs
- Fabricated Parts
- ME Fibres

### Types of Refractory Anchors

- V Type
- Y Type
- Flexible anchor systems
- Anchors for multi layer linings
- Stud welded anchors



### Antec International Offers

- Full project management
- Anchor design service
- Standard and custom anchors
- Variety of material options
  - Stainless steel
  - Nickel alloy
  - Mild steel
- CAD drawings
- Material Test Certificates and material traceability
- Plastic capping & dipping
- Test procedures

### Material Range includes

410	310
304	310S
316	330
321	Alloy DS
800	601
253MA	



### Anchor Manufacturing Capability

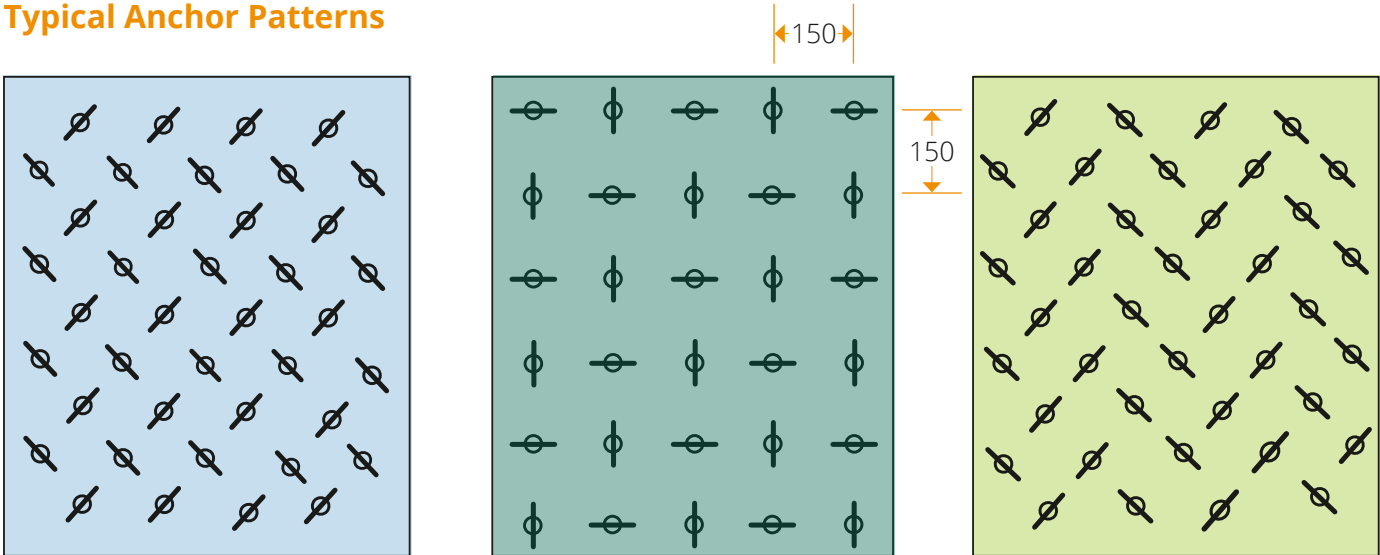


Custom anchors are manufactured either in Sydney, Australia or Vereeniging, South Africa with full scale local Indonesian production expected in 2018.

Traditionally anchors are made using mechanical presses, robotic welders and CNC Machining and thread rolling.



### Typical Anchor Patterns



'CENTRE TO CENTRE' ANCHOR													
75	100	120	150	175	200	225	250	275	300	325	350	375	400
ANCHORS REQUIRED FOR 'SQUARE METER PATTERN'													
170	100	65	40	30	24	20	15	12	10	9	8	6	5



### Major projects include

- Rio Tinto Yarwun QLD Alumina Calciners
- Worsley Alumina Calciner WA
- Koniambo Nickel Refinery - New Caledonia
- Ma'aden Alumina Refinery - Saudi Arabia
- Shell Clyde NSW - Regenerator & Reactor Cyclones