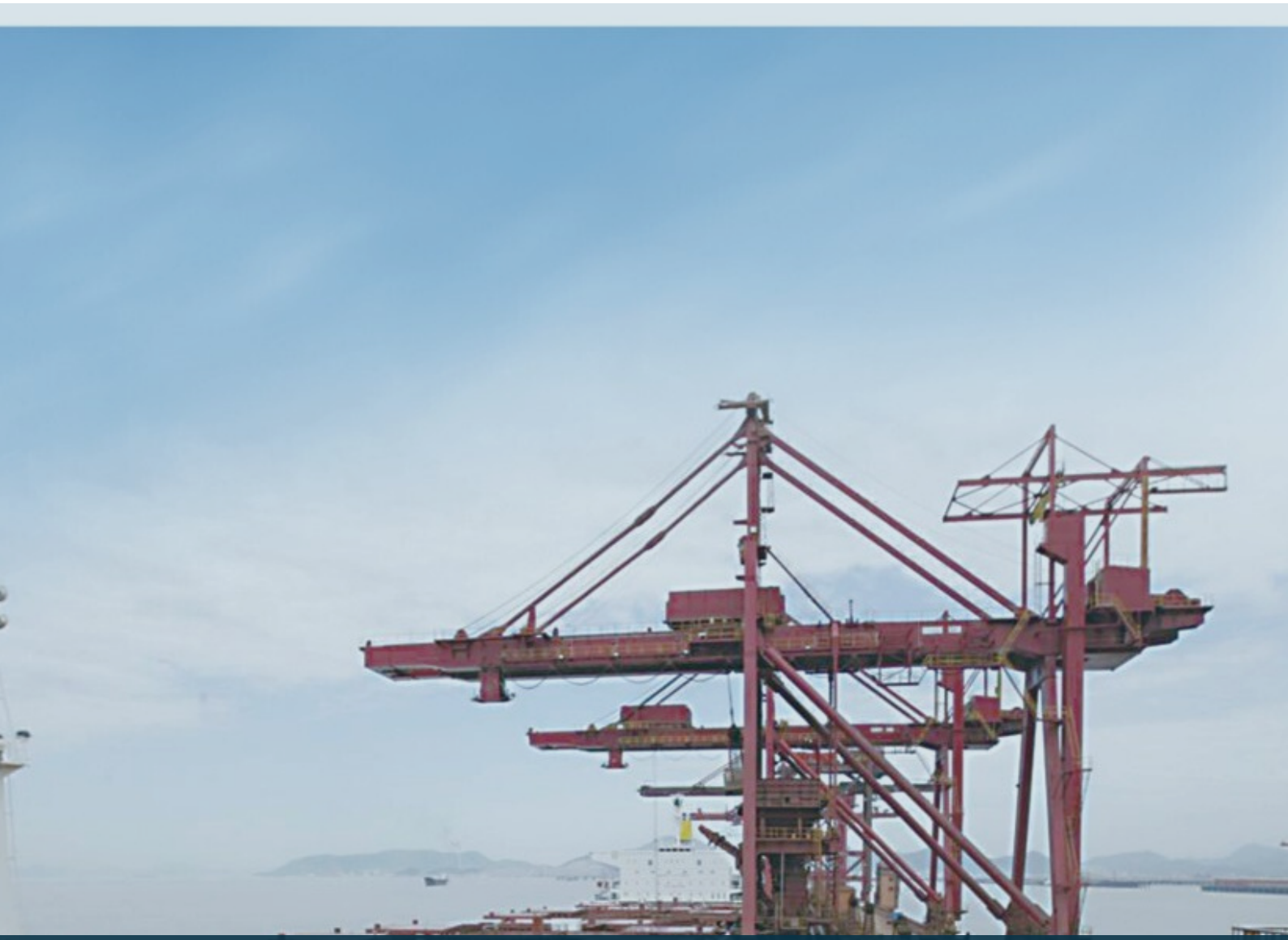
DOUBLE ARROW



CONVEYOR BELTING FOR DEMANDING APPLICATIONS

Company Profile | Australia

MINING | PORTS | ENERGY | CEMENT | BULK MATERIALS

COMPANY OVERVIEW

Built for demanding material handling

Double Arrow manufactures a broad range of rubber conveyor belting for mining, ports, energy, cement and other bulk materials applications. Founded in 1986, the business combines large-scale production with in-house testing, product development and application engineering.

Double Arrow is listed on the Shenzhen Stock Exchange under stock code 002381. The Australian subsidiary was established in 2016, providing local commercial and technical coordination backed by manufacturing and R&D teams in China.

1986

Company established

440,000 m²

Integrated manufacturing site

150 million m²

Stated annual production capacity

Since 2016

Australian market presence

Practical focus: technically compliant products, quality assurance and application support for critical conveyor duties.

PRODUCTION CAPABILITY

Manufacturing at scale

Integrated production includes rubber mixing, calendering, extrusion and vulcanisation. The scale of the operation supports standard ranges, engineered constructions and large project requirements.

- **14** rubber mixing lines
- **83** vulcanising lines
- **8** calendering lines
- **6** extrusion lines
- **750 t** daily rubber mixing
- **9,500 m** daily steel cord belt
- **34,000 m** daily fabric belt
- **3,000 mm** maximum stated width

Heavy-duty range

Steel cord constructions are available through ST10000, subject to final belt design and application review.

Large roll capability

Maximum stated belt roll weight is 80 tonnes, supporting long lengths and reduced splice counts where logistics allow.

Capabilities are indicative. Final dimensions, roll lengths and packaging depend on belt construction, transport limits and customer requirements.

R&D AND QUALITY

Technical decisions backed by test data

A 6,000 m² technology centre supports compound development, product validation and failure analysis. Double Arrow holds more than 100 national patents and has contributed to over 40 industry, national and international standards.

Compound analysis

Rheology and cure behaviour

Tensile and physical testing

Testing capability

Low rolling resistance, dynamic splice fatigue, ozone exposure, elasticity, adhesion, tensile properties and pipe-belt rigidity.

Management systems

Certified management systems include ISO 9001, ISO 14001, ISO 45001 and ISO 50001.

Designed against the duty

Products can be engineered to suit applicable Australian, international and customer-specific requirements. Selection considers material, loading, speed, pulley diameters, transitions, take-up, environment and the required cover performance.

A broad product portfolio

From standard plied belting to high-strength and special-purpose constructions.

Steel cord

Long-distance, high-tension and heavy-load conveying.

EP and NN fabric belting

Versatile multi-ply belting for general and demanding duties.

Aramid

High strength-to-weight ratio with low elongation and good fatigue resistance.

Pipe and RopeCon

Enclosed and terrain-following conveying systems.

Sidewall and profiled

Steep-incline conveying and compact plant layouts.

Special constructions

Anti-tear, impact, ceramic, solid woven, endless and customised belting.

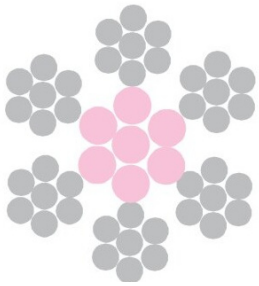
PRODUCT CAPABILITY

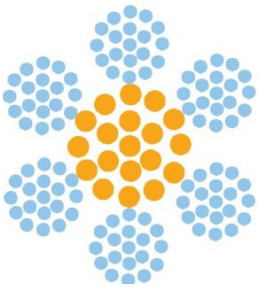
Core belt constructions

Carcass selection drives belt strength, elongation, flexibility, pulley requirements and long-term operating behaviour.

Steel cord

For long-distance, high-tension and high-capacity conveyors. Features include low elongation, consistent cord tension and strong rubber-to-cord adhesion. Available through ST10000, subject to design review.





EP and NN fabric belting

Multi-ply constructions balance strength, impact resistance, fatigue performance, troughability and flexibility across a wide range of standard conveyor duties.

Aramid

A lightweight, high-strength single-ply option with low elongation, good fatigue resistance and strong impact performance for selected applications.

Selection inputs: belt tension, safety factor, pulley diameters, take-up, transition geometry, troughability, material characteristics, drop height, duty cycle and splice strategy.

COMPLEX ROUTES AND INCLINES

Special conveying solutions

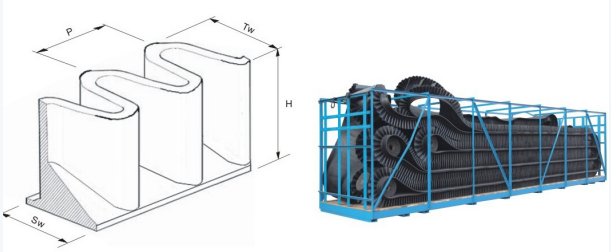
Alternative belt constructions can reduce transfer points, contain material and enable routes that are difficult to achieve with a conventional troughed conveyor.

Pipe conveyor belting

Enclosed conveying helps control spillage and dust, protects the material and allows horizontal and vertical curves. Typical conveying angles can reach approximately 30°, subject to system design.

RopeCon systems

Suspended conveying for terrain crossings and constrained corridors, combining a belt with ropeway support.



Sidewall and profiled belting

Sidewall systems can handle inclines up to 90°. Profiled belts suit shallower steep-angle duties, typically up to 45°.

Final geometry and capacity depend on the complete conveyor design, including material behaviour, belt speed, loading and transition arrangements.

COVER COMPOUNDS AND PROTECTION

Engineered for the operating environment

Cover selection should be driven by the dominant damage mechanism rather than a generic grade description.

Abrasion-resistant

For mining, quarrying and bulk-material duties where cover wear controls belt life.

Severe abrasion and ceramic

For concentrated high-wear duties, short conveyors and severe localised abrasion.

Low rolling resistance

Designed to reduce indentation losses on long or high-capacity conveyors.

Heat and high-temperature

For clinker, coke, sinter and other elevated-temperature materials.

Flame-resistant

Constructions for duties requiring specified flame resistance and relevant certification.

Oil and chemical resistance

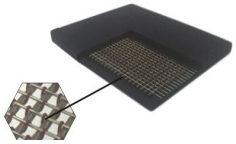
Compounds selected for oils, acids, alkalis and other material exposure.

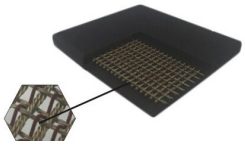
Cold-resistant

Formulated to maintain flexibility and performance at low operating temperatures.

Anti-tear and impact

Reinforced options for sharp lumps, high drop heights and rip-sensitive applications.





PROJECT SUPPORT

From application review to delivery

A clear specification process reduces technical risk, prevents mismatched belt selection and supports more predictable delivery.

01 Application review

Material, capacity, speed, geometry, pulley data, environment and failure history.

02 Belt selection

Carcass, strength, covers, breaker or anti-tear protection, edge and splice requirements.

03 Production and QA

Controlled manufacture with inspection and testing against the agreed specification.

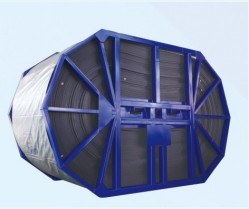
04 Packaging and logistics

Round, racetrack and octagon steel-frame options can be selected to suit handling, transport and project requirements.

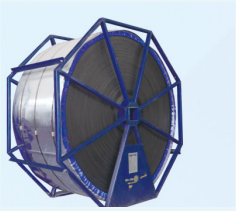
05 Local coordination

Australian contact for commercial, technical and after-sales communication.

Round steel frame



Racetrack steel frame



Octagon steel reel

PROJECT EXPERIENCE

Selected long-distance references

Yubei Logistics Base | Pipe conveyor

A 15 km single-line enclosed pipe conveyor designed for environmental containment and efficient bulk transport.

15 km line	1,000 t/h	4.5 m/s	Enclosed route

Huzhou South Logistics | Cement clinker

A 22 km fully enclosed overhead conveying corridor for high-temperature clinker, designed to reduce reliance on road haulage.

MARKETS SERVED

Global capability, local Australian contact

Double Arrow belting is supplied across five continents. The Australian subsidiary coordinates enquiries, specifications and support for local customers and partners.

Ports and terminals

Mining and processing

Long-distance systems

- Mining
- Ports
- Cement and quarrying
- Energy
- Metallurgy
- Recycling and processing

Start with the duty, not the catalogue

Share the conveyor data, operating conditions and current belt performance. The team can then review belt construction, cover selection, standards, packaging and delivery requirements.

DISTRIBUTORS & SERVICE PROVIDERS

Local partners across Australia

Regional product supply, belt installation, splicing and maintenance support, backed by Double Arrow Australia.

Endless Belt Services

- New South Wales

Elite Conveyor Services

- Brisbane and surrounding areas

Conveyor Maintenance Services

- Townsville and surrounding areas

Superior Conveyors

- Mackay, Queensland

Adelaide Belting Solutions

- South Australia

HardRok Engineering

- Mount Isa and surrounding areas

CIBS

- Western Australia

Local capability. National reach.

Service availability is coordinated through Double Arrow Australia and confirmed for each site and project.

Talk to us about your next conveyor belt requirement.

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