



**INNOVATIVE**  
CONVEYING SYSTEMS INTERNATIONAL

Innovative Conveying Systems International Limited

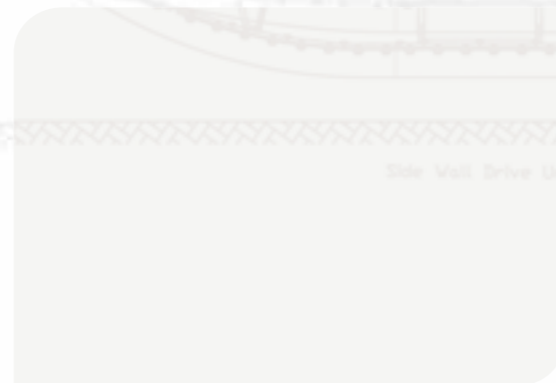
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Dealer/Distributor/Agency Details:



**Port Conveying Solutions**

In-loading and out-loading

Information printed is correct at time of printing. However it is subject to change without notice, due to the continual development of the ICS.

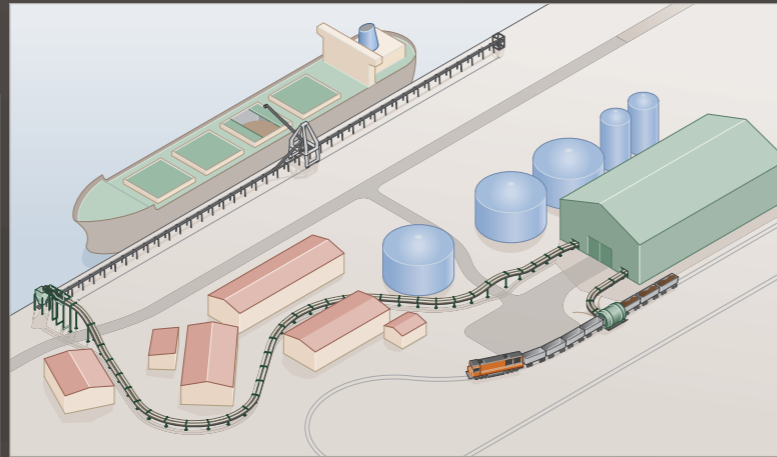
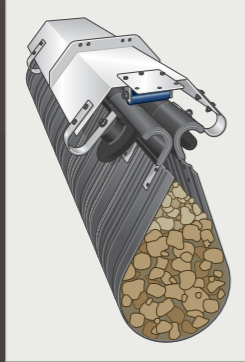
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Form ICS/Port/0608

## The Innovative Conveying System (ICS) provides a cost-effective alternative conveying solution for port in-loading and out-loading applications for today's global port requirements.

The ICS is capable of conveying a wide range of materials for the port industry - from stockpiles and storage facilities to the ship loader.

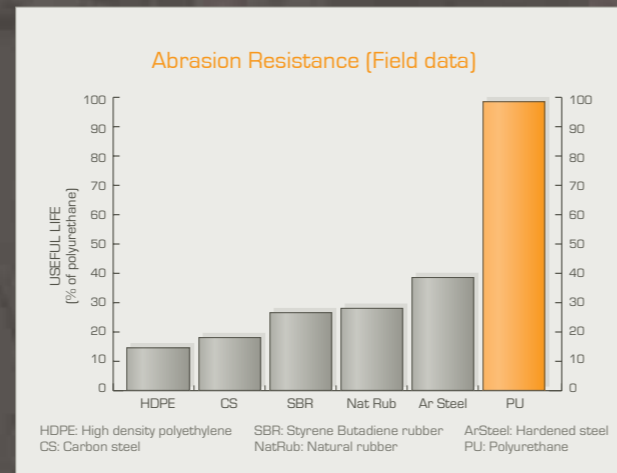
Some of the materials that can be conveyed by the ICS within ports include:

- Woodchips;
- Metal concentrates eg. lead, zinc, nickel, etc;
- Metal minerals eg. iron ore, demanding material such as alumina, etc;
- Non-metals eg. coal, mineral sands, etc;
- Grain;
- Sugar;
- Salt;
- Chemicals eg. fertiliser, sulfur, etc.



## Superior Benefits

- Unmatched cost benefits;
  - The ICS overcomes the many limitations faced by conventional conveyors through its flexible conveying path capabilities eliminating the need for expensive infrastructure such as enclosed conveyor gantries, towers and multiple transfer points, resulting in low set up costs.
- Occupational, health, safety and environmental benefits;
  - The ICS fully enclosed belt design ensures all material, dust and odours are securely contained without the need for expensive and space-hungry conveyor enclosures.
- Integration with existing port infrastructure;
  - Ability to convey up steep inclines and around obstacles such as buildings and silos, therefore reducing space requirements.
- Modular design;
  - Allows for easy relocation and modification once installed.
- Flexible conveying path;
  - Removes the need for multiple transfer points eliminating product loss and dust.
- Easy to operate;
- Ease of maintenance;
  - Ready access to key components such as idlers, belt drive and ICS belt.
- Low power consumption;
- Low belt tension;
  - The ICS utilises individual drives staggered along the length of the conveyor reducing stress on the components and support structure.
- Longer belt life;
  - The ICS belt is manufactured using polyurethane, which is proven to be a highly durable and long lasting material as opposed to conventional rubber.



## Innovative Conveying System

From conveying hazardous and corrosive fertilisers to highly abrasive and dusty minerals such as iron ore, the ICS is a durable and highly capable conveying system.

Independent third-party tests carried out on the ICS components have reinforced the ICS's high abrasion, impact resistance and

durability in a variety of applications as well as its overall superior reliability.

Quality parts are utilised in the manufacture and assembly of the ICS to ensure that the conveyor system will operate continuously with minimal downtime.

### Test Results

Test	ICSI Tested	Polyurethane Supplier Tested	Results
Abrasion resistance	✓	✓	• High abrasion resistance compared to conventional rubber and metals
Anti-static		✓	• Anti-static properties can be included in the manufacture of the ICS belt
Load bearing	✓	✓	• High load-bearing capacity
UV	✓	✓	• UV resistant
Oil, grease and resin resistance	✓	✓	• Resistant to oil, grease and resin
Fire resistance	✓	✓	• Flame retardant properties can be included in the manufacture of the ICS belt
Chemical resistance	✓	✓	• Resistant to most chemicals
Solvent resistance	✓	✓	• Resistant to most solvents
Flex	✓	✓	• Resistant to cracking under repeated flexing
Temperature capabilities		✓	• Operate in temperatures as low as -20°C * • Operate in temperatures as high as 90°C * • Higher operating temperature resistance is achievable

\* Technical specifications on the polyurethane are provided by the supplier

## Leading Edge Technical Support

The highly experienced and skilled technical support team can provide advice and assistance in all areas of the ICS conveyor design, installation and manufacturing ensuring you get the right ICS conveyor for your needs.

Support services include:

- On-site training;
- ICS equipment manuals;
- Service and maintenance including service plan agreements;
- Genuine ICS parts available for worldwide distribution;
- ICS warranty;
- Installation and delivery if required.



## Advanced Capabilities

Innovative Conveying Systems International Limited is a designer, manufacturer and distributor of a patented, flexible enclosed belt conveying system designed to meet global port conveying requirements.

Capabilities include:

- Fully equipped design and manufacturing facility;
- Parts warehouse;
- Service and maintenance;
- Installation;
- Working to ISO9001 Quality Standards;
- Working to AS/NZS 4801 Occupational Health & Safety Standards.

