



INNOVATIVE
CONVEYING SYSTEMS INTERNATIONAL

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Dealer/Distributor/Agency Details:

Side Wall Drive Unit

Chemical Conveying Solutions

Environmentally safe conveying for chemicals & fertilisers

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

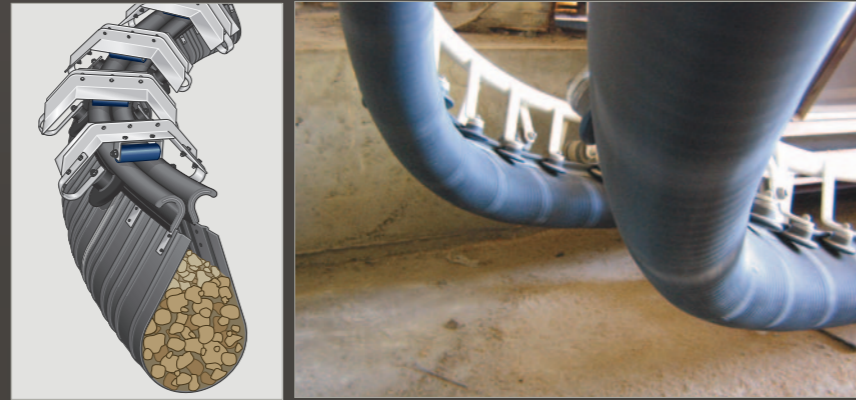
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Form ICS/Chemical/1008

The ICS enclosed belt conveying system is capable of conveying a wide range of chemicals and fertilisers in a safe, secure, efficient and cost effective manner.

The ICS belt system greatly improves occupational health, safety and environmental issues. It also minimises operating and set-up costs and reduces space requirements.

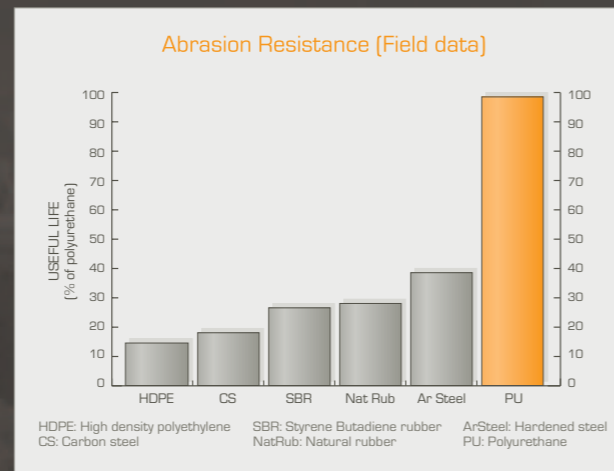
The ICS belt system is capable of conveying a wide range of materials in an enclosed configuration including:

- Fertilisers;
- Inorganic chemicals i.e. metals, minerals, various compounds, etc; and
- Explosives.



Superior Benefits

- Longer belt life
 - The ICS belt is manufactured using polyurethane, which is proven to be a more durable and longer lasting material than rubber.
- 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 bulky conveyor enclosures.
- Unmatched cost benefits
 - The ICS eliminates the need for expensive infrastructure such as enclosed conveyor gantries, towers and multiple transfer points, resulting in low set up and operating costs.
- Small footprint
 - Ability to convey up steep inclines, down declines and around obstacles, therefore reducing space requirements.
- Easy to operate
- Ease of installation
 - Firms with structural engineering capabilities are able to design and position the infrastructure that supports the belt circuit.
- Ease of maintenance
 - Ready access to key components such as idlers, belt drive and ICS belt make maintenance a low cost process.
- Low power consumption
- 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 and minimising product degradation.



Enclosed Belt 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

ICSI partners firms with sound engineering capabilities to design, construct and install a solution to applications outside the design scope of conventional conveyors.

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 belt conveying system for your needs.

Support services include:

- On-site training;
- ICS equipment manuals;
- Service and maintenance including service plan agreements;
- Parts warehouse;
- ICS warranty; and
- 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 the chemical and fertiliser industry's conveying requirements.

Capabilities include:

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

