

# 400

## 400 SERIES ICS BELT ICS ENCLOSED BELT CONVEYOR



**INNOVATIVE**  
CONVEYING SYSTEMS INTERNATIONAL

### DESCRIPTION

The Innovative Conveying System (ICS) is a patented and flexible enclosed belt conveying system designed and manufactured by Innovative Conveying Systems International Limited (ICSI Limited). The 400 Series ICS Belt is based on a set of unique capabilities enabling it to transport a wide range of materials at steep angles (up to 80°) as well as negotiate tight radius vertical and horizontal curves, eliminating the need for transfer points. Other OH&S issues such as dust, odour and operator safety are all catered for by the unique enclosed design of the ICS. The ICS is also available for conveyor applications ranging from grain handling to iron ore mining.

### OPTIONS

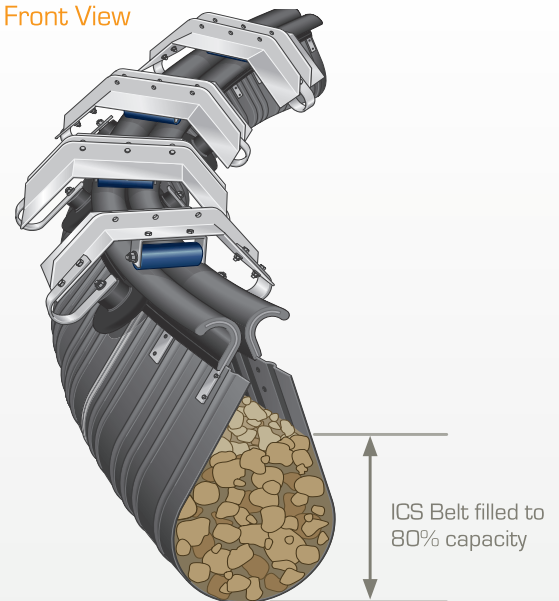
- :: Conveyor system customisation
- :: Multiple load points
- :: Mobile feeder
- :: Belt partitioning
- :: Mobile discharge
- :: Two-way conveying

### ICS TECHNICAL SPECIFICATIONS

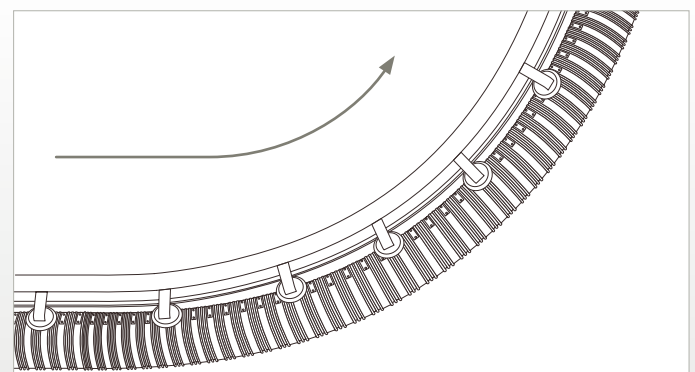
Belt cross section - belt diameter closed (mm)	400
Belt capacity (3m/s @ 80% volume and bulk density of 1 t/m <sup>3</sup> )	1085 tph
Belt material	Polyurethane
Max belt speed (m/s)	4
Max particle size (mm)	250
Max bulk load (kg/m)	120
Max incline angle	Up to 80° depending on material
Max decline angle	Up to 80° depending on material
^ Min horizontal curve radius (m)	6
^ Min incline curve radius (m)	5
^ Min decline curve radius (m)	10
Belt characteristics	Heat resistant UV resistant Abrasion resistant Chemical resistant Anti-static Fire resistant

### DIAGRAMS

ICS Belt Front View



ICS Belt Transition from Horizontal to Incline Curve



### MATERIALS CONVEYED\*

Chemicals  
Sand & aggregate  
Metal minerals  
Metal concentrates  
Non-metals  
Foodstuffs  
Woodchips

### INDUSTRY

Processing  
Construction  
Manufacturing  
Agricultural  
Mining  
Waste management  
Ports

^ Min curve at appropriate belt velocity.

\* Material conveyed within the belt is dependent on the particle size of the material being less than or equal to the maximum allowed particle size for this particular belt. The technical specifications are based on the optimal working capabilities of the ICS belt. Ongoing inhouse and field testing by ICSI Limited on the ICS belts may alter results. For more information contact your nearest ICSI Limited office or ICS representative.

Dealer/Distributor/Agency Details:



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