

### ***Cone support system (outer cone) and wear cone (inner cone) of the ISECONE telescopic chute***

The unique modular design allows for the use of various polyurethane materials, which can be specifically adapted to customer and material requirements in each of the system components used.

The cone support system (see the system drawing, page 3) absorbs all occurring forces, and facilitates smooth system functionality of the chain hoist, sensor holder, etc...

The wear factor is reduced significantly by the introduction of a black wear cone (see drawing, page 3 individual cone on the right), which is simply inserted into the cone support system.

Once the wear cone requires replacing, it can be easily be removed from the cone support system and exchanged with a new wear insert. No tools are needed for the replacement of the wear cone insert.

### ***A wide range of uses suited to your requirements***

- Minimises the risk of dust emissions.
- Improves employee working conditions.
- Improves the surrounding environment.
- Reduces material segregation and contamination.
- Improves product quality.
- Reduces maintenance and clean up costs.
- Eliminates the introduction of contaminants into neighbouring material stockpiles.
- Improves work safety.
- Easily retrofitted in existing conveyor systems.
- The simple, sturdy and compact design of the ISECONE telescopic chute is resistant to side winds and offers an excellent ratio between minimum and maximum extension.
- The number of conical segments used in an ISECONE telescopic chute system can be individually adjusted to suit customer requirements, varying according to the height of the stockpile and that of the conveyor.

**We look forward to an opportunity to assist you!**



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## **ISECONE THE TELESCOPIC CHUTE**



**...AN ISENMANN KNOW-HOW SOLUTION**

Stockpiling of bulk materials, e.g. coke, gravel, ore, fertiliser, sand and coal is predominantly carried out with belt conveyor systems. The volume of material in a stockpile is subject to fluctuations as the quantity added and removed constantly varies.

This occasionally means that the material to be stockpiled may have a long drop from the top of the conveyor belt to the actual surface of the stockpile.

Dry bulk material contains dust and fines. Unloading material onto a stockpile is liable to scatter dust, which is detrimental to both the working environment and surrounding area.

This can result in problems for the operator :

- Contamination of neighbouring stockpiles (e.g. reduction in quality, non-saleable ...).
- Impact on the environment and surrounding areas.
- Increased risk of dangerous dust emissions.
- Increased maintenance/repair costs (e.g. vehicle air filters, air conditioning units, bearing damage ...).
- Work safety issues (eyes, nose, lungs, etc...).
- Complaints from neighbouring residents.
- Increased cleaning costs for grounds, buildings, machines, etc.

The use of highly wear-resistant conical segments manufactured from quality polyurethane makes for a long-lasting product.

## ISECONE : THE INNOVATIVE SOLUTION

### 'Vacuum' within the ISECONE telescopic chute

The product flow creates a vacuum within the ISECONE chute, reducing the need for expensive and high maintenance filtration systems. The same active principle also eliminates fine particles escaping between the conical elements.

The ISECONE telescopic chute is specifically designed for easy maintenance. Together, all these factors contribute to worthwhile savings.



### Suspension of the conical segments

The endless belts on each individual cone element are firmly attached to the next cone by means of a lifting eye. The three-point suspension for each cone allows for the support of practically any force, and holds the cones firmly in the desired position.

### Automatic height adjustment

The ISECONE telescopic chute is equipped with an ultrasound sensor for automatic height adjustment which can also be operated manually using a remote control system.

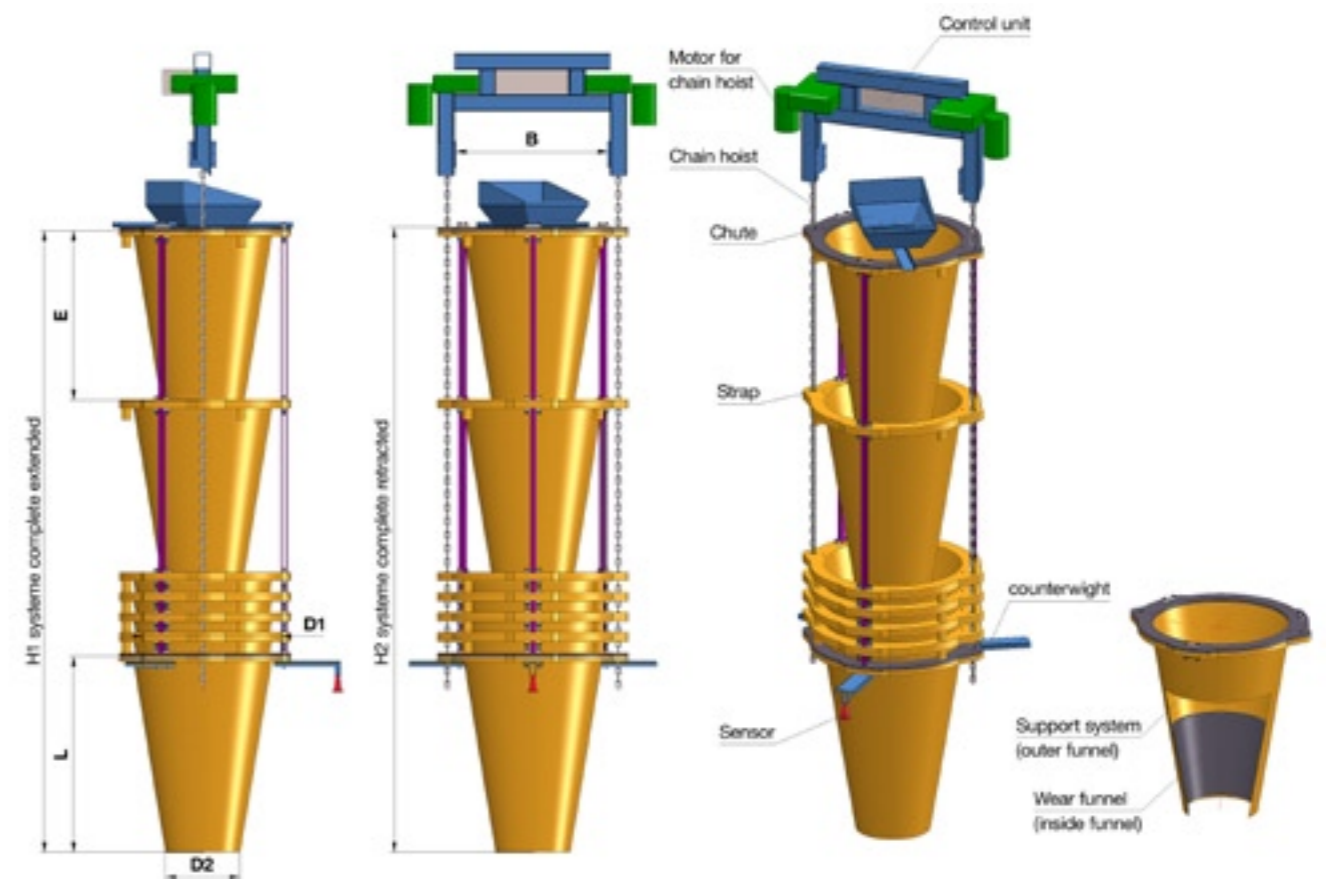
The ISECONE telescopic chute automatically maintains the correct position above the stockpile significantly reducing the risk of unwanted dust emissions. This functionality also reduces the need for personnel supervision and eliminates the possibility of the chute coming into contact with the stockpiled material.



The chute is equipped with electric chain hoists with limit switches and an overload protection device to contain their travel and avoid damage to the ISECONE telescopic chute.

As the level of the stockpile rises, the ISECONE telescopic chute retracts with its conical segments nesting inside each other. When fully retracted each conical segment only adds 100 mm to the overall length of the chute.

## ISECONE : TECHNICAL SPECIFICATIONS



| ISECONE 400-1200 |  |       |             |
|------------------|--|-------|-------------|
| Application      | Length of strap                              | mm    | 1000        |
|                  | Max. number of modules at motor capacity     | units | approx. 15  |
|                  | 2x motor ST1005 8/2 2/1                      |       |             |
| Dimensions       | Overall height total 7 modules H1/H2         | mm    | 7200 / 2000 |
|                  | Length of module L                           | mm    | 1200        |
|                  | Wide-span stabilizer B                       | mm    | variable    |
|                  | Immersion depth funnel L-E                   | mm    | 200         |
|                  | Funnel diameter input D1                     | mm    | 800         |
|                  | Funnel diameter input D2                     | mm    | 400         |
|                  | Individual module weight                     | kg    | 70 (80)     |
| Motor capacity   | Overall weight (module, motor, etc.) approx. | kg    | 450         |
|                  | Motor for chain hoist (2.3 kW) ST1005        | Pc(s) | 2           |
|                  | Max. speed                                   | m/min | 4           |
|                  | Min. speed                                   | m/min | 1           |
|                  | Max. load                                    | kg    | 1000        |