

# DRAG TUBULAR

**IDEAL**  

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**CONVEYORS**

WE LISTEN TO and STUDY each client's specifics,  
to achieve **QUALITY** in the **DESIGN, MANUFACTURING**  
and **INSTALLATION** of machines and systems  
for **STORING, DOSING** and **CONVEYING** powders.

# OPERATING PRINCIPLE

**IDEALTEC DRAG TUBULAR CONVEYORS** ARE USED FOR DISTRIBUTING MATERIAL AT LONG DISTANCES AND ALONG CONVEYING LINES WITH MULTIPLE INLETS AND OUTLETS.

The **design flexibility** favours the material conveying through horizontal and inclined paths and allows for fitting in tight spaces and existing plant equipment. They are especially suitable for transferring friable and delicate materials with no product degradation.

IDEALTEC mechanical conveyors comprise a drive unit, a **series of corners** made in carpentry or cast metal and an enclosed tubular conveying line. **The powder or granular material is transported by a rope or a chain**, with plastic or metal discs fixed onto it, running inside the tubular path. The rope/chain gentle, low-speed dragging is induced by the drive unit which causes the disc adherence/engagement to special drive sprockets.

Material infeed is dosed and occurs by means of screws or rotovalves. The material is discharged at different points of the conveying path through gravity discharge spouts (single or multiple) or through manual, pneumatic or electric material intercepting valves.

ASSISTANCE

REPORTS

PROJECT

INSTALLATION



The image shows a complex industrial setup with large, vertical, corrugated metal pipes. The pipes are connected to various mechanical components, including blue-painted flanges and valves. The background is a bright, industrial environment with windows. The text is overlaid on a dark blue semi-transparent background.

**FEASIBILITY  
AND PROJECT REPORTS**

**INSTALLATION AT THE  
CUSTOMER'S PREMISES**

**TECHNICAL AND  
MANAGEMENT CONSULTANCY**

**AFTER-SALES ASSISTANCE**

**SCHEDULED MAINTENANCE  
COMMISSIONING**

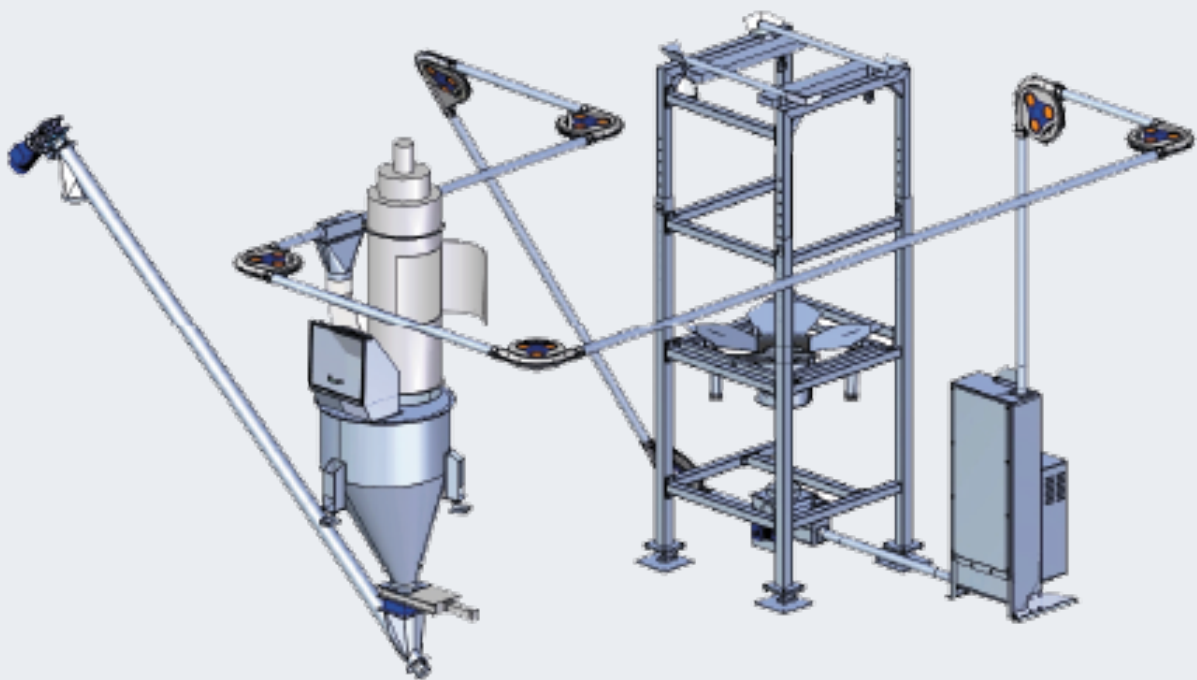
**IDEALTEC ALSO SUPPLIES  
TURN-KEY PLANTS**

# DRAG TUBULAR CABLE SERIES IDEALROPE®

The rope is made of **noble fibres** with patented twist, which avoids the strand lengthening, or of strands of metal wire and is fitted with discs in polymers, moulded onto it, **duly selected to handle highly abrasive materials**.

The drive unit is built in metal carpentry and is equipped with a compression-tension spring system for the cable tensioning in case of excessive slackening during operational work cycles.

**The cable conveying system is particularly suitable for transferring dry materials**, which do not impregnate the rope strands, changing their physical characteristics or compromising their operational efficiency.



MODEL	POWER SUPPLY	PIPE SIZE	THROUGHPUT
48 TF	1,1 Kw	48 mm	1,5 m <sup>3</sup> / h
60 TF	2,2 Kw	60 mm	2,8 m <sup>3</sup> / h
76 TF	3,0 Kw	76 mm	5,5 m <sup>3</sup> / h
114 TF	4,0 Kw	114 mm	10 m <sup>3</sup> / h

MODEL	POWER SUPPLY	PIPE SIZE	THROUGHPUT
48 TC	1,1 Kw	48 mm	1,5 m <sup>3</sup> / h
60 TC	2,2 Kw	60 mm	2,8 m <sup>3</sup> / h
76 TC	2,2 o 3,0 Kw	76 mm	5,5 m <sup>3</sup> / h
114 TC	4,0 Kw	114 mm	10 m <sup>3</sup> / h
168 TC	5,0 Kw	168 mm	35 m <sup>3</sup> / h

MODEL HEAVY	POWER SUPPLY	PIPE SIZE	THROUGHPUT
114 TCP	4 Kw	114 mm	10 m <sup>3</sup> / h
273 TCP	max 7,5 Kw	273 mm	60 m <sup>3</sup> / h

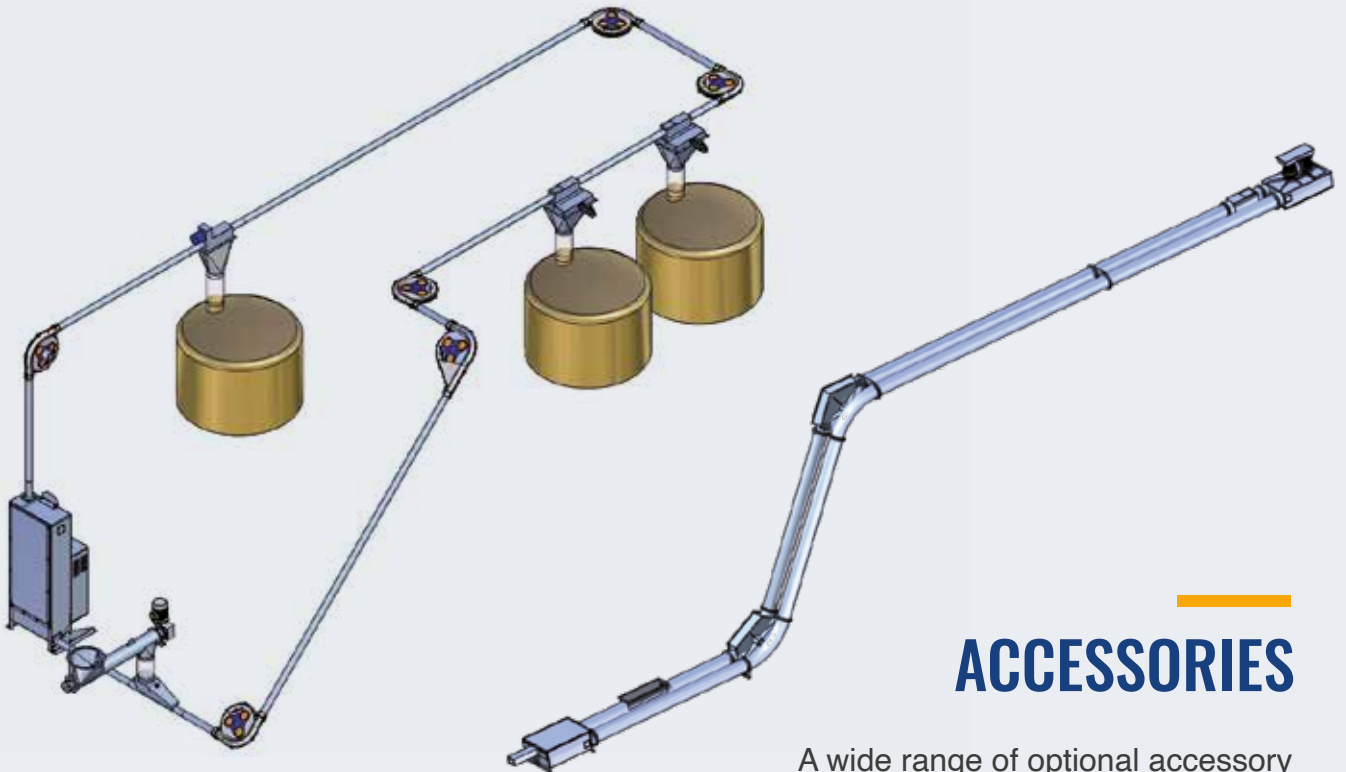
The data reported in the tables are indicative and may vary according to the characteristics of the conveyed materials and the customer's required specifications.

The manufacturer reserves the right to make any changes to the characteristics of its machine and parts there of at any time, without prior notice.

# DRAG TUBULAR CHAIN SERIES IDEALCHAIN®

The drive sprockets are realized in cast iron, stainless steel or polymer, appropriately chosen depending on the material conveyed. The corners are made of aluminium cast and are furnished with an external support structure or with internal bearings.

**The chain conveying system is particularly suitable for transferring any kind of material**, in particular products with a high specific weight and/or a high degree of abrasiveness.



## ACCESSORIES

A wide range of optional accessory equipment and applications is available on request:

The material is usually fed into the circuit path by means of screw conveyors or rotovalves (**screw feeders, star valve feeders, vibrating feeders**, etc.) which control and regulate material inflow; in order to improve material fluidity vibrators or fluidizers can be furnished too.

The outlet housings can be fitted with **proper joint spouts or with manual, pneumatic or electric material intercepting valves**.

The conveyor can be **furnished with brushes to clean material off the chain-and-disc assembly**.



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## ADVANTAGES

- Unlike other linear transport systems, **the mechanical conveying system allows for frequent changes of direction** of the conveying line, permits to overcome height and level differences and to cover long distances.
- The conveyor can be started under **full load**.
- **The enclosed design allows to achieve a perfect dustproof system** and ensures reduction of dust emission into the environment.
- The system can be conditioned, by choosing the appropriate constructive materials, for the transportation of products with **significant abrasive grade and at high temperatures** (max. T 120°).
- Energy consumption, thanks to the little power required, **is negligible and lower**, if compared to other transport systems with identical conveying throughputs.
- **Maintenance is minimal and occasional** and involves the regular inspection of the state of wear the contact parts (in particular if the conveyed material has a high degree of abrasiveness).

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## STANDARDS & CERTIFICATIONS

The **EU-type-examination Certification** pursuant to Annex III of Atex Directive 2014/34/EU makes our **aeromechanical, mechanical and screw conveyors** the indisputable protagonists, attesting to the conformity with the essential health and safety requirements of the Directive, **for the transport of a 0/20 ZONE**.

**The production quality assessment notification**, pursuant to Annex IV of the Atex Directive 2014/34/EU proves **the validation of the corporate quality system for production** and seals our strong propensity towards spreading a culture of health and safety in the workplace.

The **EAC EX Certification** of our aeromechanical and mechanical conveyors for classified atmospheres.



**Idealtec S.r.l.**  
Via Ginevra 6/8,  
24040 Bottanuco  
Bergamo (BG) - Italy

Phone +39 035 4992332  
Fax +39 035 4992638  
[info@idealtecsrl.com](mailto:info@idealtecsrl.com)  
[www.idealtecsrl.com](http://www.idealtecsrl.com)