



ECOBELT®

Dust proof steel belt conveyor

The **Magaldi Ecobelt®** is the ideal conveyor for handling hot materials, aggressive chemicals, heavy or sharp products, ensuring a safe and environmental friendly operation.

The **Magaldi Ecobelt®** key component is the Magaldi Superbelt®, designed completely enclosed in a steel casing, suitable to prevent dust dispersion to the environment. A simple mechanical self-cleaning device removes the fine residuals from the bottom of the casing.

The **Magaldi O-chain®** is a chain conveyor enclosed in an independent casing, tailored around the **Magaldi Ecobelt®** tail section. Its function is to receive the fine residuals, taken from the Ecobelt® bottom by the self-cleaning device, and to reload them onto the Magaldi Superbelt®.

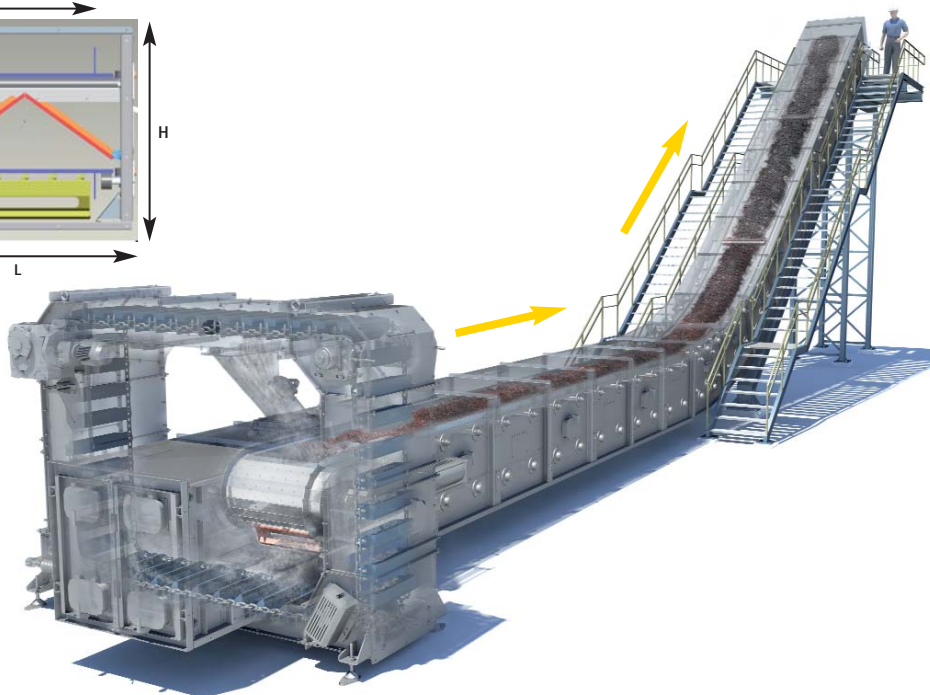
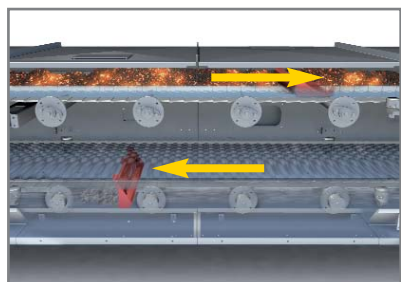
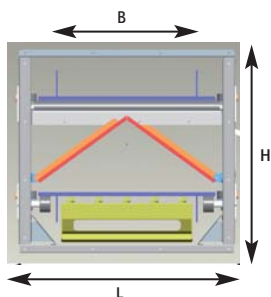
The Magaldi Superbelt®, the steel belt successfully used to convey difficult materials in industries where high depend-

ability is essential, overcomes the frequent problems encountered by conventional conveyors, such as rubber belt, drag chain and steel plate conveyors. Sudden failures or necessity for repairs of conventional conveyors can frequently lead to production losses or high O&M costs.

The Magaldi Superbelt® allows the conveying of extremely hot, dusty, sharp and abrasive materials, no matter if containing fines or lumps, over long distances and with steep inclinations. High temperatures and tear issues are solved thanks to the patented method of connecting the pans to the mesh belt, that leaves all elements free to expand in any direction. Wear is negligible, since material is slowly conveyed with no relative motion against steel parts. Power demand for conveying and noise are at the minimum levels. In most cases the Magaldi Superbelt® operational life exceeds 10 years.



MAIN BELT Width (mm)	CASING Outer Size (mm)	
B	L	H
500	870	1.230
800	1.220	1.230
1.200	1.620	1.230



ECOBELT® Working Concept

Maintenance on the **Magaldi Ecobelt®** is very easy. All idler supports are installed outside the casing, allowing trouble-free inspection at any time and lubrication with the belt in operation. The other elements are designed for continuous operation and can be checked during preventive maintenance, over a multi-year schedule. The **Magaldi Ecobelt®** can continuously work for years with reduced O&M costs, always maintaining its high dependability.

The **Magaldi Ecobelt®** is ideal for transportation and, if necessary, controlled cooling of:

- Hot & bulk materials
- Dry bottom & fly ash from PC fired boilers
- Dry bed ash from FBC boilers
- Dry biomass ash from boilers burning biomass alone or co-fired with coal
- Dry RDF (Refuse Derived Fuel) ash from co-fired PC boilers

- Biomass and RDF
- Cement clinker
- Core and foundry sand
- DRI (Direct Reduced Iron) pellets
- Coke, pellets, slugs for the metallurgical industry

Application range:

- Conveyed material temperature up to 1,000 °C
- Inner ambient temperature up to 700 °C
- Size of the conveyed material from fines up to big lumps
- Conveying capacity up to 200 m³/h
- Transportation distance over 200 m
- Angle of inclination up to 60°

The Magaldi R&D dept. performs experimental tests in the Magaldi test facility for any type of material. Custom-made technical solutions can be studied to solve specific problems for your severe applications.



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