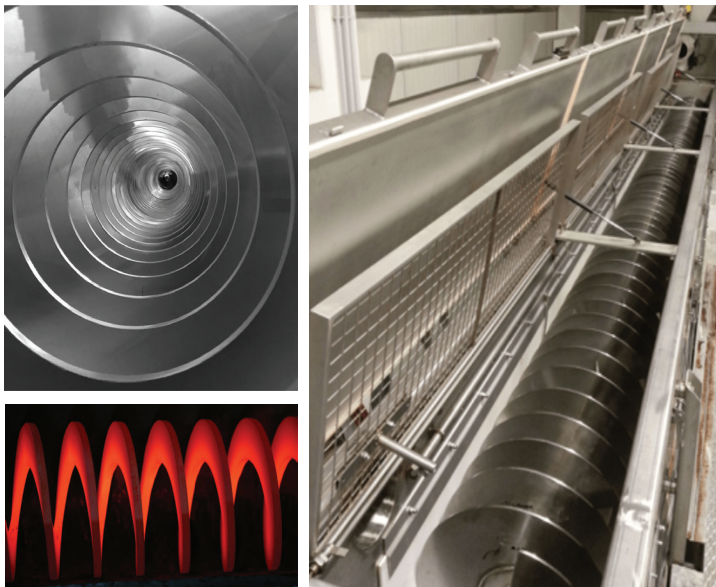




E T I A  
ECOTECHNOLOGIES

# SPIRAJOULE® ELECTRICALLY HEATED SCREW CONVEYOR

The Spirajoule® technology is an exclusive and patented process for thermal treatment. It is designed with a worm screw conveyor electrically heated by a low voltage current. The technology is a simple and economical process with the accurate and efficient operation offering the heat treatment up to 850°C for a variety of bulk products.



## SIMPLE

A unique combination of most fundamental and well-established inventions: hollow shaft screw conveyor and resistance heating.

## INDUSTRIALLY PROVEN

Technology established since over 20 years and successfully proven in many industrial applications worldwide.

## FLEXIBLE

Equipment allowing precise and flexible change of operating conditions within any range from 50 to 850 degree Celsius.

## ACCURATE AND RELIABLE

Electrically-powered, precisely controlled and monitored process that ensures continuous, stable and independent conditions of treatment.

## POWERED BY ELECTRICITY

Can be powered by multiple energy sources:

- Grid connection
- Gas engine
- Diesel engine
- Solar energy
- Wind turbine

10

worldwide  
patents

20

years of  
experience

150

units installed  
worldwide

innovation - engineering - processes

[WWW.ETIA-GROUP.COM](http://WWW.ETIA-GROUP.COM)

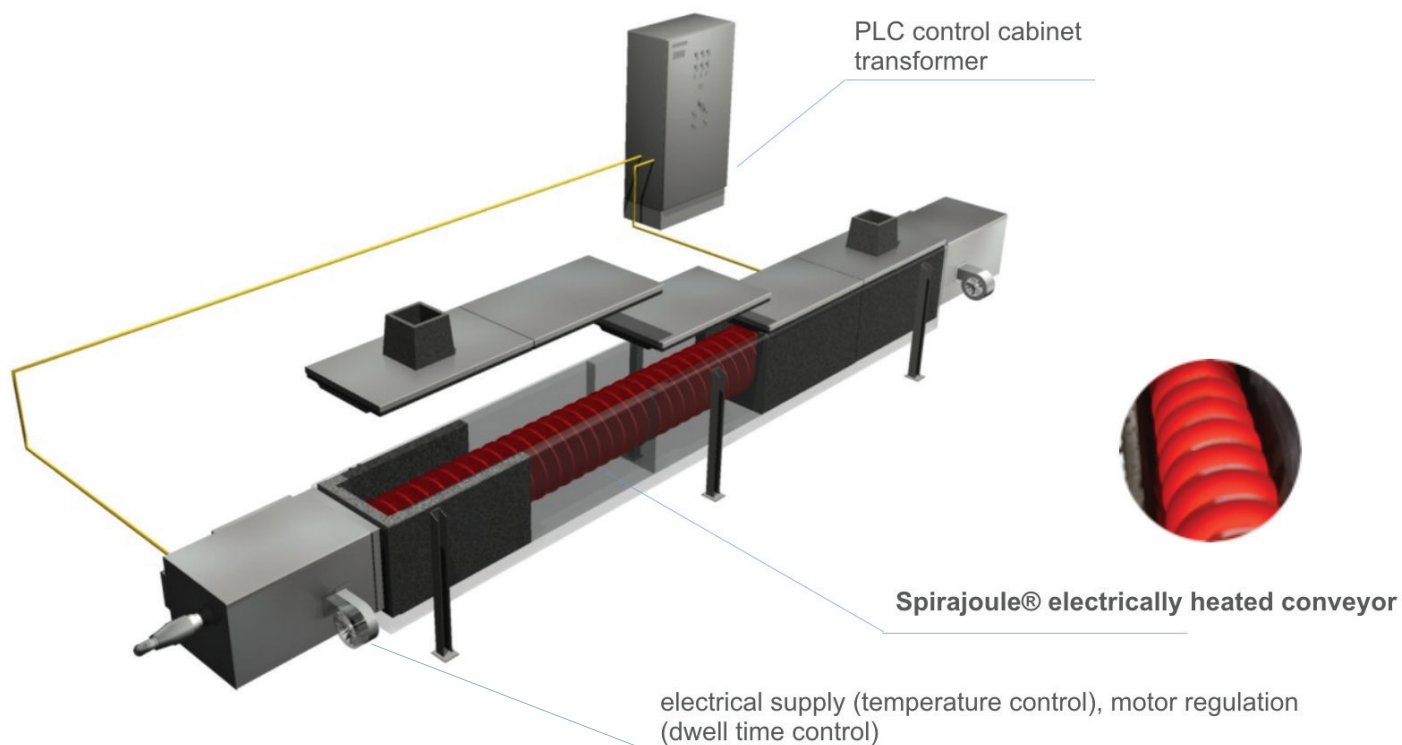


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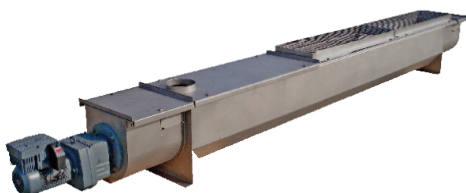


+33 3 44 86 44 20

# INDUSTRIAL AND PROVEN TECHNOLOGY



- ★ Simple = Easy to operate
- ★ Robust = very low maintenance
- ★ No electrical heater = No sensible element
- ★ No double jacket = No hot fluid or gas needed
- ★ Plug flow process = FIFO reactor
- ★ Treatment of bulk materials of any shape, wet and dry
- ★ Capacities from 30 up to 4000 l/hr
- ★ Process temperature up to 850 deg. C



## SPJ-INDUSTRIAL SERIES

Heating  
Low temperature drying



## SPJ-FOOD PROCESSING SERIES

Pasteurisation  
Steam sterilisation  
Toasting and roasting



## SPJ-HIGH TEMPERATURE SERIES

Chemical reaction  
Carbonisation  
Torrefaction, pyrolysis

