



# **TFFS SERIES**

**Tubular Form-Fill-Seal  
bagging system**

# Tubular Form-Fill-Seal bagging system



The **CHRONO-BAG™ Tubular Form-Fill-Seal bagging system** provides a universal, flexible and economical packaging system for tubular Form-Fill-Seal applications at all throughput requirements up to 2200 bags per hour. It is a fully automatic bagger that forms, fills and seals side

## Applications

The CHRONO-BAG™ **TFFS SERIES** is the ideal system for free flowing as well as difficult to handle bulk materials:

**Horticulture:** Bark, compost, mulch, peat moss, soils, etc.

**Organic Products:** Wood pellets, pet food, seeds, animal feed, cat litter, etc.

**Minerals:** Sand, gravel, concrete mix, coal, crushed stone, etc.

**Chemicals:** Fertiliser, plastic pellets, salt and corrosive materials, etc.

gusseted as well as pillow-type bags offering minimum welded surfaces for optimal strength. It is designed to use a roll of tubular film. Using this system instead of a pre-made bag system reduces bag cost and labour.



## Features and benefits

- Compact, sturdy design
- User-friendly touch panel with integrated graphical user interface
- Automatic height adjustment on outfeed conveyor
- Completely integrated scale control
- Solid and reliable field proven technology for a high system availability
- Good machine access allowing cleaning and maintenance to be carried out quickly and effectively
- Innovative, low movement design
- Matched high accuracy weighers and feeders for maximum outputs
- Minimised installation costs as the system is supplied as a pre-wired/pre-tested configuration

## Functionality

The system is suitable for both free flowing and difficult to handle bulk materials. A key feature of our TFFS product range is its compact, sturdy design that can be supplied in 4 versions **TFFS-1025**, **TFFS-1060**, **TFFS-1120**, and the high-speed version **TFFS-1220**. We have developed over the 130 last years the most accurate dosing systems on the market to suit your product the best:

- High-speed volumetric belt feeder
- High-speed net weigher in combination with gravity feeder

- Mid-speed: net weighing in combination with belt feeder or vibrating tray
  - Low-speed: gross weighing system in combination with bottom-up screw
- The system operation is user-friendly with a graphical touch panel interface and clear text-based operator interface. The control cabinet is a pre-installed and tested part of the system for simple integration, installation and commissioning at your plant.

## Options

- Stainless steel contact parts
- Product Deaeration by Vacuum probes
- Bag deaeration by Vacuum lance
- Bag top handle former
- Corner sealing for compact, easily palletised bags
- Gusset reforming
- Gusset making unit for pillow type tubular film
- Hole punch unit
- Full stainless steel version
- Dust suction set up
- Movable machine option for multiple infeed points
- Bag marking devices
- On spout bag detection system providing automatic bag rejection and ensuring clean equipment during operation
- Quick and safe reel changeover with integrated automatic reel lifting device

## Production rate

From **200 up to 2400 bags per hour\***

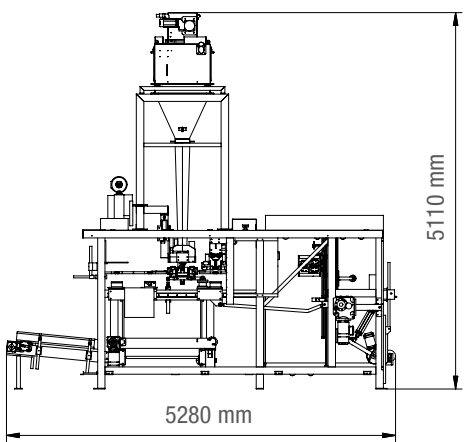
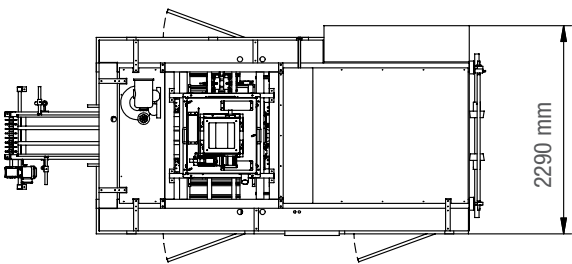
\*Depending on product characteristics, method of feeding, bag size, film thickness, etc.

## Technical data

Bag material:	Heat sealable polyethylene tubular film
Bag sizes:	Face width: 190 to 580 mm
	Length: 600 to 1100 mm
Film thickness:	50 to 180 µm*
Film roll diameter:	up to 1500 mm
Electrical requirements:	3 AC / 400V / 50 Hz
Operating pressure:	6 bar
Ambient temperature:	+5°C to +40°C
Noise level:	<75dB (A)

\* Film thickness to be verified by Chronos BTH team

## Typical layout



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## Manufacturing Plant

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