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Form, Fill and Seal System (FFS)
for Bags from Tubular Film

CHRONO-BAG™ FFS-H Series

WORLDWIDE PRESENCE

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For nearly 125 years now, **Chronos Richardson Systems** has made its mark on the European and Asian markets thanks to its innovative packaging and processing solutions and approach to complete integrated system projects tailored to customers' individual needs. Armed with its experience, the inventor of the first automatic weigher is now recognized as a specialist in weighing, batching, bagging and palletising for the food, feed, chemicals, plastics, fertilizer, milling and cement industries.

Chronos Richardson Systems is part of the Industrial Equipment Group of Premier Tech, one of the largest players in the field of industrial flexible packaging worldwide.

Find your solution with Chronos Richardson Systems.



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CHRONO-BAG™ FFS-H SERIES FOR BAGS FROM TUBULAR FILM

FFS-H

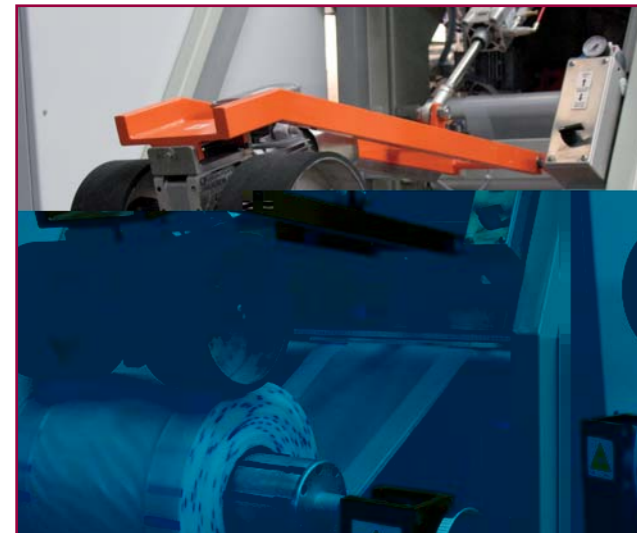
Our new generation of **FFS-H** series provides a universal, flexible and economical packaging system for tubular form, fill and seal applications at all throughput requirements up to 2,200 bags per hour [depending on the handling characteristics of the bulk material being packed]. The system is suitable for both free flowing and difficult to handle bulk materials. A key feature of our **FFS** product range is its compact, sturdy design that can be supplied in 3 versions **FFS-H**, **FFS-HS** and the high-speed version **FFS-HSS**.

The system operation is user-friendly with a graphical touch panel interface and clear text-based operator guidance. The control cabinet is a pre-installed and tested part of the system for simple integration, installation and commissioning at your plant. An automatic reel lifting system allows rapid reel changeover to be safely carried out.



FUNCTIONALITY

Bag forming, filling and sealing are simultaneously completed in dedicated stations. The tubular film is transferred to the bag forming station. Bag forming is determined by either pre-programmed data in the system control or by photo-cell reading of a pre-printed mark on the film. The formed bag is then transferred to the filling station. The bulk material is pre-weighed by high capacity E55/56 series nett weigher and matched material feeder: gravity, screw, double screw, belt or vibratory feeder; the choice being matched to the product being packed. After welding the upper seal the filled/closed bag is released onto a conveyor belt for transfer to the warehouse or palletiser.



FEATURES AND BENEFITS

- Compact, sturdy design
- Simple uncomplicated design
- User friendly operating systems
- Designed for minimised film overlap to reduce film wastage and thereby reduce costs
- 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 to minimise spare part holding requirements
- User-friendly touch panel with integrated graphical user interface
- Quick and safe reel changeover with integrated automatic reel lifting device
- Matched high accuracy weighers and feeders for maximum outputs
- Minimised installation costs as the system is supplied as a pre-wired/pre-tested configuration

APPLICATIONS

The **CHRONO-BAG™ FFS-H** series is the ideal system for free flowing as well as difficult to handle bulk materials.

Application examples:

- Plastics (PE, PP, HDPE, LDPE, LLDPE, PVC ...)
- Fertilisers (Urea, NPK...)
- Salt
- Building materials (sand, gravel, concrete mixes, expanded clay ...)
- Animal feed, pet food
- Chemical powders
- Biofuel pellets

OPTIONS

A wide range of machine options are available to ensure the best solution for your application requirements:

- Corner sealing for compact, easily palletised bags
- Gusset forming unit
- Handle making unit
- Dust cleaning system of the top bag welding area
- Vacuum system to deaerate the bag thereby eliminating the need for micro perforation of bags
- Full stainless steel version
- Movable platform systems for optimum plant utilisation
- Bag marking devices
- Interchangeable bag spouts available



TECHNICAL DATA

Model	FFS-H	FFS-HS	FFS-HSS
performance	Up to 800 bags/h	Up to 1200 bags/h	Up to 2200 bags/h

Bag width:	295 – 450 mm
Bag length:	350 – 750 mm
Bag volume:	10 – 80 l
Filling weight:	5 – 50 kg
Film thickness:	70 – 200µm
Max. reel diameter:	1,500 mm
Bag forming:	impulse sealing

* andere Sacklängen auf Anfrage

Weighing:	nett weighing
Power consumption:	16 – 25 kW
Power supply:	3 AC/400 V/50Hz
Air consumption:	~ 120NI/bag
Operating pressure:	6 bar
Operating temperature:	+5°C to +35°C
Machine weight:	approx. 2,500 kg