



CHRONOS
RICHARDSON



CRS Newsletter, July 2009

WEIGHING • BAGGING • PALLETISING

www.chronosrichardson.com



Ingo Jonas MD, Chronos Richardson Systems GmbH

Dear Customer,

We are pleased that the first issue of our customer magazine INPACK generated a lot of interest so we decided to continue updating you with our latest company news. So here is our July 2009 issue.

First of all a brief overview:

We report about the successful introduction of our new FFS technology, which gave a positive start to our new financial year. Next we detail a new double spout bottom-up filling system; plus diverse case histories from the food and minerals markets; palletiser highlights; acquisitions; people; as well as interesting news from our international parent company.

Like you we have experienced the difficult economic situation, caused by the weak financial systems. New equipment investments or replacement investments have been delayed. However we take our customers immediate needs seriously, so we are supporting you with customised solutions to assist with your modernisation and retrofit requirements to optimise your existing weighing and bagging

equipment. We can also offer preventative maintenance programs via our customer service teams to keep your plant working efficiently. Please talk to our specialists.

Progress and Innovation

Progress and Innovation in Weighing, Bagging and Palletising

Innovative FFS SYSTEM introduced at AICHEMA, FRANKFURT (GERMANY)

The Chronos Richardson Europe Group with its Managing Directors Ingo Jonas from CRS Germany and Riccardo Taino from CR Italy introduced the new FFS-H series, a Form, Fill & Seal system for bags from tubular film for the Chemical, Minerals and Food industries, at the international shows IPACK IMA Milan / Italy and AICHEMA , Frankfurt / Germany.

This new generation CHRONO-BAG™ 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 CHRONO-BAG™ FFS-H product range is its compact, sturdy design that can be supplied in 3 versions FFS-H, FFS-HS and the high-

FFS-SERIES

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Progress and Innovation

speed version FFS-HSS. The system operation is user-friendly with a graphical touch panel interface and simple text-based operator guidance. The control cabinet is a pre-installed and tested part of the system for simple integration and commissioning when being installed on site. An automatic reel lifting system allows reel changeover to be safely carried out within a few minutes.

To ensure that maximum operating speeds are achieved, bag forming, filling and sealing are simultaneously completed at 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 feeders: 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. Simple and ef-

ficient design with low maintenance requirements for universal applications.

Typical industries that will use the CHRONO-BAG™ FFS-H include: 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 or Biofuel pellets.

FSS-SERIES**NEW CASE STUDIES****New Double-Spout Bagging System delivered to Bonilait Protéines for Whey Powders**

We have recently delivered and installed a new bagging system for Bonilait Protéines company in Chasseneuil du Poitou at Poitiers, France.

Bonilait is a French company specialising in the production and treatment of milk products, especially whey powders. Each year a billion litres of whey are processed.

For this specific application Chronos Richardson developed a new double-spout open-mouth bagging system based on bottom-up-filling technology type PBS 502-BFW. The field-proven bottom-up filling technology allows for the reliable, dust-proof bagging of high fatty powdery bulk materials.

To meet the required output of 450 bags per hour Chronos Richardson has built the system with a double spout design. The central parts of the system are two bag spouts each with an axial movable vertical filling screw and dosing cone. The bag is lowered during the filling process according



to the filling level so that the distance between dosing cone and product level is constantly kept to a minimum, thus minimising the possibility of dust development during filling.

A diverse range of re-fatted whey powders with a bulk density of 0.40 and 0.60 kg/dm³ are bagged into open cross-bottom bags made from multiply paper with a PE-inner-liner. The filling weights are 10 and 25kg for each bag. The full scope of supply includes a pneumatic packing device, two de-aeration systems with air evacuation probes as well as a downstream secondary de-aeration device to remove any air from the top of the bag. After the filling process the bag is closed with an existing bag closing device and



transferred to a palletiser, provided by the customer.

The PBS 502-BFW series bagging systems fulfils the safety and hygienic requirements for foodstuff equipments according to DIN EN 1672, part 1 and 2.

In addition to the hygiene, food conformity and dust-proof filling requirements of the whey powder packing; and the output of 450 bags per hour, the tight space conditions on site were particularly challenging. However the Chronos designing engineers provided a good solution.

Repeat order from Renowned Seed Producer

Repeat order from Renowned Seed Producer for Fully Automatic Bag Packaging System

We have secured a repeat order from the seed breeding and production company P.H. Petersen, Lundsgaard, Northern Germany for a fully automatic bagging line utilising an OML 600 for open-mouth bags. This is the third line OML 600 bagging system that Chronos Richardson has delivered to P.H. Petersen.



Soeren Petersen

Two systems have been installed in Grundhof / Germany and one line was installed at their Hungarian production site. Chronos Richardson's Field Sales Manager Dirk Müller asked CEO A.Sören Petersen, who has managed the family business since 1974, what finally convinced them to buy the OML 600? Mr Petersen responded: "The solid, effective machine design; as well as the reliable and prompt customer service from Chronos Richardson were the key factors. Furthermore our company attaches great importance to economic, state-of-the-art technology as our company name and products have already become recognised for quality."

In January the latest OML 600N bagging system was installed and commissioned at Grundhof / Germany. The systems include: an automatic bag placer with a multi-chamber empty bag magazine and an E55 F1 nett weighing system (new generation high-speed weigher) and integrated sewing machine.

Diverse varieties of seed are bagged into cross-bottom-bags made from multiply paper. The filling weight can vary between 10 and 50kg per bag with an output of 800 bags per hour. CRS Field Sales Manager Dirk Müller emphasises: "This bagging line is ideal for medium performances and offers a well designed and user-friendly machine layout. High hygienic standards are guaranteed by the continuous controlled bag transfer. The machine was built for optimum clean-down, quick and easy bag change over."



Further features are easily accessible machine components, the hygienic designed machine frame. The interchangeable bag spout simplifies the change over to handle different bag dimensions. A touch panel operation with graphical user interface makes the machine operation easy and comfortable. The pre-installed control minimizes the installation costs. The control board contains state-of-the-art SIEMENS components which allow an external access to all machine parameters for time and cost saving tele-maintenance.

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PALLETISER NEWS**100th Compact Palletiser sold**

Chronos Richardson's field proven compact palletiser series PL C is based on a synthesis of a robot palletiser and conventional palletiser technology. Combining these technologies utilises the benefits of both systems. The system is characterised by the patented integrated robot type gripper technology as well as conventional layer pressing. The Compact Palletiser is suitable for all type and materials of bags and is favoured in the food, pet food and chemical industry and is available in 4 versions. The Compact Palletiser really comes into its own when palletising bags which are not ideally filled.

CASE STORIES**NEWS FROM THE UK****News From Nottingham**

Chronos Richardson (CR) recently moved to a modern industrial complex in Nottingham with improved facilities for providing sales, manufacturing, customer services, spare parts and equipment upgrades. This has helped optimise our service response times and improve our manufacturing efficiency.



Since the move we have maintained our ISO9001 quality processes and a strong focus on supporting customer equipment sales, service and spare parts requirements. The vast experience of our staff ensures we remain the perfect partners to assist you by providing the best Packaging Solutions as well as original CR spare parts and customised service support across the UK and Ireland.

Chronos Richardson UK Limited incorporates Richard Simon Limited, Verville and Premier Tech Systems for European spares, refurbishments, service, installation and commissioning and details can be found at www.servicechronos.com

In 2002 Richard Simon Limited (RSL) became part of the Premier Tech Group of companies and RSL engineers and personnel were integrated into CR.

Since early 2003 genuine spare parts matched to the original RSL design authority documentation and drawings have been supplied from Nottingham by CR. That experience and expertise is still available today for service and aftermarket support for the RSL product range including:

- Richard Simon UBM Weighers
- Richard Simon Bag Placers
- Richard Simon Computapak Controllers
- Richard Simon Containerpak Containerised Bagging Systems
- Richard Simon Weigh-belt and Constant Rate Feeders

Users of Premier Tech compression balers, bagging/packaging/palletising systems, and screeners; and Verville compression baling systems can get more reliability from their equipment by maintaining it and servicing it regularly.

By getting end-users to recognise the importance of plant up-time and equipment availability to their production plants, helps them maintain reliable quality production; thereby keeping them competitive and improving their profitability. The importance of regular maintenance scheduling and appropriate spare parts holdings show how you can plan servicing work for times that are convenient to your production needs, not just when it stops working.

Plan Upgrades & Retrofits

In the current economic climate new capital equipment spend is sometimes difficult to justify; but you know that your plant needs upgrading and that



News From Nottingham

you need to make the most of your existing processing and packaging equipment.

Affordable improvements through our Retrofit & Refurbish programmes can be cheaper than new equipment. Our refurbishment programmes allow your plant to benefit from renewal and improvements whatever the equipment supply. This has been applied to: Upgrades allowing old equipment to meet today's operating standards Cost-effective adaptations for your changing production requirements Allowing old equipment to regain its functionality.

Familiar Equipment – new challenges

In recent years two European Directives - the Explosive Atmospheres Directives [ATEX] have been enacted, which may have an implication on the

continued operation of in-process weighers and other bagging weighers. We have now introduced ATEX compliant weighers into both our APW in-process and high-speed bagging weigher ranges.



Many customers have continued to request simple manual bagging systems so to cope with these demands we have reintroduced the H17E bagging weigher to our product portfolio, which now uses the latest SpeedAC NXT weighing controller.

On Display

Please make sure that you visit our stand, F102 at the forthcoming **PPMA Exhibition** at the **NEC Birmingham, 29 September to 1 October, 2009.**

NEWS FROM THE UK

Automatic Bagging & Palletising at Dunns (Long Sutton) Ltd

Several months ago Dunns (Long Sutton) Ltd contacted Chronos about a new requirement for an automatic bagging and palletising system for their plant in Long Sutton, Lincs.

Dunns are a long-established agricultural seed merchant that specialise in supplying premium quality pulse products for human consumption for both the domestic and export markets. Their requirement was for high speed bagging of beans into open-mouth paper and woven polypropylene bags.

Duplex CHRONO-WEIGH™ E55 nett bagging weighers are utilised to make precision weighments into the open-mouth bags that are automatically presented to the filling spout by a high-speed bag placer. The plain sewn bags are then automatically palletised by a CHRONO-PAL™ Compact Palletiser that is rated at 1000 bags/hour.



The Compact Palletiser has provided some major benefits to Dunns. The neat and stable pallets produced have not only allowed an average of additional 4 extra full pallets to be loaded into each container, but they have also

dramatically reduced the loading time when positioning the full pallets into the containers.

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NEWS FROM THE UK**Automatic Bagging & Palletising at Potters Ballotini Ltd**

An existing Chronos manual bagging system has recently been upgraded to automatic operation at Potters Ballotini Ltd in Barnsley, South Yorkshire. This company is an international manufacturer of a diverse range of Highway Safety and Engineered Glass material products, with small granular particles up to 1000 microns diameter.

The new automatic system utilises a CHRONO-FILL™ OML600 bagging system and CHRONO-PAL™ RP Robot Palletiser to pack and palletise a variety of reflective glass spheres into plastic lined paper pillow type bags. The system incorporates a customer specified over-tape and sealing system for optimum bag sealing and presentation.

An additional feature integrated into the automatic bagging and palletising system, allows the robot palletiser to carefully mimic the original manual bagging system operation. This operating routine ensures that there is the optimum degree of bag overlapping during the layer formation part of the palletising process, for maximum pallet stability and warehouse space utilisation.

Chronos engineers designed, built, installed and commissioned the system, which includes a full CE light barrier safety systems and safety guarding.

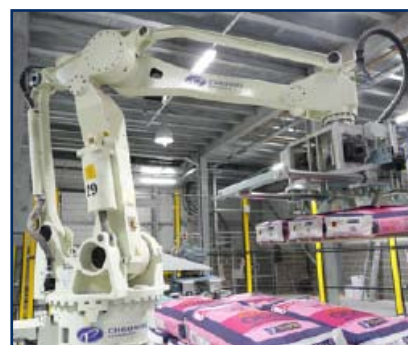
**1500 bags/hour Robot Palletising at F. Ball and Co. Ltd**

F. Ball and Co. Ltd from Leek, Staffordshire is the UK's leading manufacturer of flooring adhesives and floor preparation products for the contract flooring market and they recently sought out our expertise in robot palletising.

Working closely with engineers from F. Ball we devised an innovative dual robot palletising scheme to meet their specific operational requirements. This involved supplying two robot palletising cells, which work in tandem and feed a single stretch hooding system.

The first robot palletiser is rated for operation at 450 bags/hour; whilst the second with multi bag pick-up is rated for operation at 1500 bags/hour. A full pallet shuttle car transfers the full pallets through the packing room to the stretch hooding system.

As a special requirement the robots have been programmed to be part of the check-weighing system. Whereby any under-weight bags are removed from the packing line by the robot and transferred onto a small roller conveyor system, which is interlocked back to the palletising system and automatically shuts down when too many under-weight bags are on the conveyor.



CUSTOMER SERVICES NEWS

Retrofit Package for Your Shipping and Receiving Scales Retrofit, Modernise, Optimise: Keep your technology up-to-date

Chronos Richardson offers cost effective retrofit packages for your shipping and receiving scales (Chronos equipment or third-party machines) enabling you to keep your technology in line with current standards. The innovative **CHRONO-TRONIC™ BULK controllers** are the latest technology for weighing and recording systems.

The systems offer the highest operational reliability and are suitable for all types of bulk scales. Chronos Richardson's service team recommends a retrofit with the field proven BULK 8000 module – this universal weighing and recording system has multilingual menus with plain text operation; interfaces for input; EDP and data exchange; options for networking (Profibus, DeviceNet, Ethernet); communication tool for Windows; digital inputs and outputs. Bulk 8000 can store 250 customer files and 150 data files for material recording. Up to 100 silos can be addressed for shipping applications. All data is power failure and password protected. You can benefit from our cost effective retrofit package and rapid installation times. Our customer services team will be pleased to arrange a service appointment with you.



AW / VW



BULK 8000

Weigher calibration provides enhanced productivity

Do not forget to get your weighers calibrated. We know that accurate and repeatable weighing is vital to the success of your business, especially if you're packaging very expensive bulk materials. Minimising 'giveaway' is important to both you and your customers. Underweight bags result in customer dissatisfaction, while overweight ones directly affect your profitability. Our service specialists know all about the importance of weigher accuracy. With our Preventative Maintenance Program, functionality as well as accuracy is checked and calibrated – we know that this will benefit your operation.



E55-F1

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NEW PRODUCT BROCHURES



FFS-H Series



E55



OML 600



BULK-Series

Please ask for our printed or pdf versions at marketing@chronosrichardson.com

EXHIBITION NEWS

Anuga FoodTec in Cologne / Germany

In March Chronos Richardson Systems GmbH exhibited for the first time at the **Anuga FoodTec**, international exhibition for food and beverages technology. Ingo Jonas, Managing Director was very pleased: "It was the right decision to take part at the Anuga FT. The number of enquires particularly from the milk powder market demonstrated that Chronos Richardson has a high brand awareness and good reputation in the food industry."

**IPACK IMA, Mailan (Italy)**

In March Chronos Richardson Italy took part in the international **IPACK IMA** at Milan and exhibited for the first time the previously described FFS-H series. FFS-H is a new form, fill and seal system for bags from tubular film. The visitors were very interested in the new system indicating that Chronos has selected a good partner.

**ACHEMA, Frankfurt (Germany)**

Also at this year's **ACHEMA** Chronos Richardson displayed the innovative FFS-H product, creating a lot of interest. Our participation at ACHEMA resulted in successful exhibition participation, with excellent discussions being started between Chronos and many renowned chemical companies.



NEWS FROM THE INTERNATIONAL GROUP COMPANIES



Riccardo Taino

Chronos Richardson ITALY

In January 2009 Mr **Riccardo Taino** was appointed Managing Director at Chronos Richardson Italy. Mr. Taino has comprehensive, long-term industry knowledge especially about form, fill and seal technology. Riccardo Taino and his specialist team succeeded in developing an innovative FFS system short-term and launching it in March at the IPACK IMA at the trade fair in Milan. For further information regarding this new product please see the title page.

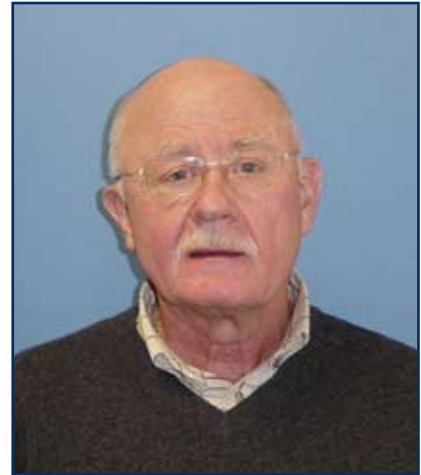
CHRONOS RICHARDSON (Thailand) LTD. has moved to a new state-of-the-art facility

Continued growth over the past five years, has caused Chronos Richardson (Thailand) Ltd. to move to a new, much larger headquarters, located at Samutprakarn Province, approximately 25 km from Bangkok. This took place in May 2009 and the new facility is approximately four times larger than the old one, covering 750 sq. metres of office space and 4500 sq. metres of factory space. With a height of 9.5 m comprehensive integrated packaging systems can now be installed and pre-tested.

The additional space has provided an opportunity to enlarge the scope of



supply. Now the Thailand headquarters can offer the well proven semi-automatic weighing and bagging systems but also assemble fully automatic bagging systems along with robot palletising cells. Managing Director Cornelius A. Van Drent commented: "We are glad to show the new state-of-the-art production facility to our customers. We can now expand our product line and



Cornelius A. Van Drent

services to both our existing and new customers."

PREMIER TECH MAKES AN U.S. ACQUISITION AND INTRODUCES NEW LABEL STONEPAK

In May 2009 our parent company PREMIER TECH announced the acquisition of the Equipment Division of Graphic Packaging International, Inc located in Salt Lake City, U.S.A. The company is specialised in valve bagging equipment. With this acquisition, Premier Tech Systems (PTS), a business unit of Premier Tech, integrates the renowned expertise of some 60 skilled team members to its existing team of 500 people. In so doing PTS has strengthened its position as the North American leader in the field of industrial flexible

packaging. The addition of a sixth plant in North America allows PTS to improve its presence in its various markets, while diversifying its product line, in order to speed up its penetration of the American territory.

These products will now be marketed by PTS under the STONEPAK label (former St-Regis and Stone) and will complete the company's technological platforms.




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Chronos Richardson is a division of the Canada based Premier Tech Group, which has 1600 employees throughout the world.

The Chronos Richardson Group supplies manual, semi-automatic and fully automatic integrated system solutions for bagging widely differing bulk materials. The complete system includes bulk material handling machines, weighing / dosing units, bag placing, bag filling, bag closing as well as palletising systems and automatic pallet securing systems. Chronos Richardson backs this with 24/7 service to find the best local customised, requirements-orientated solution anywhere in the world!


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