FULLY AUTOMATIC FILLING, CLOSING & PALLETIZING SYSTEMS
We say what we can do and we do what we say
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COMPANY

1920 - 1960

We boast of a family tradition in the mechanical field that dates to the turn of the twentieth century. In 1918, Domenico Concetti opens a small workshop and starts to make agricultural equipment. His son Francesco inherits the business and runs it until the sixties.

1970

Having gained experience in the local milling and feed industry, Francesco’s son Teodoro creates and patents the first machines for bagging bulk products in 1968. When his brother Giuseppe joins him in 1974, the foundations are laid for a modern company.

WHO WE ARE

We are a world-leading manufacturer of high quality packaging machinery and a supplier of turn-key solutions.

WHAT WE DO

We make multifunctional weighing, filling, closing and palletizing lines for packing a variety of dry bulk products into bags. Each packaging line is customized to the application. We design, fabricate, paint, assemble, wire, program and test in a single plant located in Umbria, in the very heart of Italy.

QUALITY

We stand for reliability and guaranteed performance. We carefully follow an ISO 9001 quality assurance standard and use the best available components and ancillary equipment.
We boast of a family tradition in the mechanical field that dates to the turn of the twentieth century. In 1918, Domenico Concetti opens a small workshop and starts to make agricultural equipment. His son Francesco inherits the business and runs it until the sixties. Having gained experience in the local milling and feed industry, Francesco’s son Teodoro creates and patents the first machines for bagging bulk products in 1968. When his brother Giuseppe joins him in 1974, the foundations are laid for a modern company.

**THE CONCETTI PHILOSOPHY**

We believe that cutting edge innovation evolves from a combination of research and the hands on experience we share with our customers in the field.

**OUR CUSTOMERS**

From multi-national companies to small businesses: more than 2,000 distinctively Concetti systems have been installed around the world, over 40% going to repeat customers.

**THE CONCETTI PHILOSOPHY**

In Concetti, we look ahead to foresee the next generation of machines. We try to design the packaging plant of the future: adapt quickly to changing markets, always complying with the ever evolving Health, Safety and Hygienic standards, attentive to good energy and resources management and fully integrated with IT management systems.

**quality packaging machinery and a supplier of turn-key solutions.**
PRODUCT ANALYSIS AND TESTING
An entire section of our facility is reserved for theoretical and practical testing of weighing, bag filling, sealing, and palletizing. We start by thoroughly checking the customer’s requirements. Product samples and safety data are analysed. We examine the physical aspects and the flow characteristics so that the very best solution is proposed.

PROJECT ENGINEERING AND CUSTOM-FIT DESIGN
Concetti has the experience to find the optimum system configuration and the right type and size of bag. For every enquiry, we prepare a clear and comprehensive proposal with fully dimensioned layout drawings. The system is discussed in detail with the client during site visits and on larger projects, if we are successful, a launch meeting finalizes any outstanding issues.

IN-HOUSE MANUFACTURING & QUALITY CHECKS
Design and production are fully computerized. The latest 3D CAD systems enable the functionality of new designs to be tested even before production begins. Modern laser cutting technology is used for precise manufacturing of parts large and small. Parts ordering, stock picking and scheduling are all automated. This integrated manufacturing gives us total control over the quality of our products.

FACTORY ACCEPTANCE TEST (FAT)
The factory acceptance test (FAT) is the customer’s opportunity to experience the system operating to their specifications. We assemble and wire the complete line and test run it with the client’s own products, bags and pallets. By attending factory testing, the customer leaves our factory confident knowing the packaging line meets their requirements and any discovered issues are resolved before delivery.

INSTALLATION AND TRAINING
The Concetti installation and commissioning supervisor will be an experienced multi-lingual engineer fully trained in safety procedures. He will ensure a smooth and rapid start-up on site and provide the proper level of training to the customer’s maintenance and operating staff.
F.A.T.
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NET WEIGHERS

- The product is weighed in a separate weigh hopper and is then discharged into the bag.
- Different feeding systems are available depending on the type of product to be handled.

NET/N-CC
DOUBLE FEEDING SYSTEM
BELT AND SCREW FEEDERS
Capacity up to 900 weighments /hr for belt feeding system, 800 weighments /hr for double screw feeding system.

NET/CC
DOUBLE SCREW FEEDING
Capacity up to 800 weighments /hr.

NET/G
GRAVITY FEEDING
Dosing gate is driven by brushless motor. Capacity up to 2,000 weighments /hr.

NET/G
SELF-CLEANING GRAVITY FEEDING
Capacity up to 1,200 weighments /hr.

NET/N
BELT FEEDING
Capacity up to 900 weighments /hr.

- Flexibility: weighing range from 2 to 110lbs (1 to 50 kg).
- Easy cleaning: wide cleaning doors, quick release components and, as an option, automatic cleaning system with air or water nozzles.
- Accuracy: constructed in accordance to the OIML recommendation and the MID European directive.

GROSS WEIGHERS

The product is weighed inside the bag as it is being filled. Different feeding systems are available depending on the type of product to be handled.

GROSS/CC
DOUBLE SCREW FEEDING
Designed for non-free flowing, aerated and/or fluidized powders, ideal for both industrial food and chemical applications. Here integrated with semi-automatic open mouth bag filling and sewing line. Capacity up to 300 bph.

GROSS/N
BELT FEEDING
Designed for products with medium flow characteristics, particularly pellets, granules and flakes such as animal feed and pet food. Integrated with semi-automatic open mouth bag filling and closing machines. Capacity up to 350 bph.
GROSS WEIGHERS

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Capacity up to 300 bph.

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BELT FEEDING

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Capacity up to 350 bph.
BIG BAG FILLING SYSTEM

- Height regulation system designed for bags up to 2,000 mm high, and weight range from 1,000 to 4,400lbs (500 to 2,000 kg).
- Automatic tying system - optional feature.
- Complete with automatic dispenser of empty pallets and exit roller conveyors.

NET B/G
WEIGHING AND FILLING STATION WITH GRAVITY FEED FOR GRANULAR PRODUCTS FERTILIZER

Contact parts in stainless steel.
Suitable for single loop big bags.
High Speed capacity up to 100 big bph.
GROSS B/C
WEIGHING AND FILLING STATION WITH SCREW FEEDER FOR DAIRY PRODUCTS

Contact parts in stainless steel.
Removable screw for fast easy cleaning.
Capacity up to 10 big bph.

NET B/G
WEIGHING AND FILLING STATION WITH GRAVITY FEEDER FOR FREE FLOWING PRODUCTS

Features include single stacking or double stacking big bags on a pallet.
High Speed with capacity up to 60 big bph.

GROSS B/G
WEIGHING AND FILLING STATION WITH GRAVITY FEED FOR BIG BAG AND OCTABINS

Suitable for various sized octabins.
Capacity 30 units per hour.
BAGGING MACHINES FOR PREFORMED OPEN MOUTH BAGS

IPF
Fully automatic high-performance bagging system equipped with one or two bagging spouts.
Suitable for small-sized 2 to 22lbs (1-10 kg) open mouth paper, coated paper, PE and aluminum gusseted bags.
Capacity up to 2,400 bph.

IMF
Fully automatic high-performance bagging system equipped with two bagging spouts.
Suitable for medium-sized 4 to 44lbs (2-20 kg) open mouth, flat or gusseted, paper, coated paper, PE and aluminum bags.
Capacity up to 1,800 bph.

Optional
1. The zipper is formed and cut
2. The top zipper is inserted and sealed to the bag

ZIPPER (Patented)
All machines can be equipped with a variety of bag closing devices including simple sewing, fold-over and sewing, sewing with crepe paper, heat sealing, PE through paper heat sealing, and glue activated pinch sealing.

**IGF**

Fully automatic high performance bagging system. Designed for virtually any kind of open mouth bags from 4 to 110lbs (2 to 50 kg): flat or gusseted, paper, coated paper, PE, aluminum, woven-PP bags with or without handles, quad sealed laminated bags with pre-applied zipper, etc. Capacity **up to 1,200 bph.**

**IGF Aerated Chemical Powders and Flour**

Designed for aerated and powder products in open mouth bags from 10 to 110lbs (5 to 50 kg). Bag type: flat, gusseted, in paper, coated paper or paper/woven PP with inner liner, PE. Capacity: **up to 500 bph.**
THE ULTIMATE BAGGING FLEXIBILITY

IGF + FFS

For premade bags and bags formed from a roll of flat or gusseted tubular PE film. Fully automatic high performance bagging system fitted with a bag forming station. Suitable for virtually any kind of open mouth bags from 4 to 110 lbs (2 to 50 kg): flat or gusseted, paper, coated paper, PE, aluminum, woven-PP bags with or without handles, quad sealed laminated bags with pre-applied zipper, etc. Capacity up to 1,200 bph.

CAROUSEL

Fully automatic six-station rotating carousel with net weigher system designed for dosing very aerated and fluidized products (e.g. flour). Features include separate bag-vibrating device to remove air from the product during the filling process. Capacity up to 1,100 bph.
STARPACK®

High speed automatic line designed for handling bulk products, granules and fine granular, into open mouth bags. Capacity up to 1,600 bph.

- Perfect for raffia, paper and PE type bags
- Integrated bag closure devices available including sewing and heatsealing
- Capacity range from 5 to 110lbs (10-50 kg)
- Automatic bag format change

Starpack® can be fitted with the FFS module designed to handle Tubular PE Film.
Automatic program change in 60 seconds
- One unique technology provided for the whole bagging process.
- Work program selection from one single remote control panel — operates the complete line.
- Automatic program change in 60 seconds - changes the complete packaging line from one operating program to another.
- Supervising systems implementation for the whole bagging plant.
- Optional integrated equipment - “print and apply” label applicators, ink-jet printers, encoders, metal detectors, check weighing systems, out of range bag marking and reject devices, etc.
- Integrated end-of-line equipment — Stretch wrapping systems and pallet stretch hooding systems.
- Safety fencing with protection devices compliant with current CE regulations.
- Machine design and manufacturing systems for NFPA Hazardous Locations and ATEX Classified Areas.
FFS FORZA 2600

FFS FORZA 2600 Specifically conceived for the petrochemical industry, the new FFS Forza can achieve a filling rate of 2,600 bph, 55 lbs (25 kg) with a single bagging spout.

The new FFS Forza can achieve:
- Top performance rates
- Reduced air consumption and operating noise
- Easier maintenance and use by the customer

Optional

- **Bag corners sealing** ("K" sealing) to improve the bags shape, enhance pallet security and aesthetics as well as to help total emptying of the bag.
- **Electric reel lifting device** to load the reel without the use of additional lifting devices.
- **Gussets forming system** to use flat (i.e. ungusseted) reel of tubular film and yet get square gusseted bags. A flat roll of tubular fill contains up to three times as many bags than a gusseted roll of film so savings due to material cost, roll change downtime, roll shipping, and storage are evident.
FFS-E

Innovative bagging machine that forms, fills and seals 10-110lbs (5-50 kg) bags from a roll of tubular PE film. Ideal for high speed packaging of free flowing pellet and granular products. Its mono-bloc structure is open on the bottom allowing easy access for cleaning and inspection. Capacity up to 2,000 bph.
Many optional features available, such as:
- Probes removing air from aerated powders
- Vacuum probe for granular products
- Corner “K-sealing” for improved bag shape
- Labyrinth sealing
- Bags with die cut handle(s).

CONTINUA FFS

Bagging machine that forms, fills and seals 10-110 lbs (5-50 kg) bags from a roll of tubular PE film.
Designed for packaging aerated, fluidized, powdery and/or aggressive products.
Capacity up to 1,800 bph.
CONTINUA FFS FOR EXTRA FINE POWDERS

CONTINUA FFS machine with six linear bagging positions specifically designed for handling fine powders into hermetic PE bags with size range 10-110 lbs (5-50 Kg) at bagging speed: up to 800 bph (500 with hermetic bag).

Optional

1. Product deaeration
2. Inert gas injection
3. Air extraction from the bag
All models feature a gripper that picks up one bag at a time and places it at a point on the pallet pre-assigned by the program logic. Designed for different bag types and palletizing patterns. Particularly suited to stacking bags containing aerated or unstable products. Perfect for overlapping bags on end or sides.

**PS-3A/18S-4S**

**FOUR COLUMN ROBOT PALLETIZER**

Featuring a unique motorized side and top layer compacting device. Capacity **up to 1,800 bph.**
All models feature a gripper that picks up one bag at a time and places it at a point on the pallet pre-assigned by the program logic. Designed for different bag types and palletizing patterns. Particularly suited to stacking bags containing aerated or unstable products. Perfect for overlapping bags on end or sides.

**PS-3A/18S**  
FOUR COLUMN ROBOT PALLETIZER  
Featuring a unique motorized side and top layer compacting device  
Capacity up to 1,800 bph.

**PS-4A/25S-A**  
ANTHROPOMORPHIC ROBOT PALLETIZER  
The plant can be configured with on-the-ground pallet or with roller conveyors for moving the empty and full pallets automatically.  
Capacity: up to 1,800 bph.

**PS-AA-3A/18S**  
ROBOTIC PALLETIZER TWO IN ONE  
Designed to forms two pallets at a time from a single in feed roller conveyor.  
Featuring a unique motorized side and top layer compacting device.  
Capacity up to 1,000 bph.
ROBOT PALLETIZERS

PS-4A/25S-A
ANTHROPOMORPHIC ROBOT PALLETIZER

The plant can be configured with on-the-ground pallets or with roller conveyors for moving the empty and full pallets automatically. Capacity: up to 1,800 bph.

PS-4A/15S-A
ANTHROPOMORPHIC ROBOT PALLETIZER

Rotating and self-adjusting tool for gripping and palletizing boxes.

The tool can be equipped with suctions cups for handling interlayer sheets.
PS-4A/8S-C
SINGLE-COLUMN ROBOT PALLETER

Designed for stand-alone configuration or to be integrated with automatic dispenser of empty pallets and exit roller conveyors. Capacity up to 450 bph.

PS-4A/10S-P
GANTRY TYPE PALLETER

With telescopic bag gripper. Designed for stand-alone configuration or to be integrated with automatic dispenser of empty pallets and exit roller conveyors. Capacity up to 600 bph.
PUSH TYPE PALLETIZERS

Designed for stacking stable bags with a well defined shape at medium and high speeds. Designed with stripper plates suitable for bag layer preparation, squaring and compression perfect for a high quality stable pallet.

PS-AB/15S
LOW LEVEL PUSH-TYPE PALLETIZER
Automatic empty pallet magazine. Full pallet evacuation and accumulation roller conveyor. Layer compaction on all four sides. Capacity up to 1,000 bph.

PS-AA/40S
HIGH LEVEL PUSH-TYPE PALLETIZER
Automatic empty pallet magazine. Full pallet evacuation and accumulation roller conveyor. Layer compaction on all four sides. Capacity up to 2,700 bph.
PS-4A/15S-P
GANTRY TYPE PALLETIZER
Gantry type palletizer with vacuum pick up head for placing 6 to 13lbs (3 to 6 kg) bags and shelf ready boxes into a case. Capacity: up to 1,400 bph.

Rotating vacuum pick up head.

PS-AA/40S
HIGH LEVEL PUSH-TYPE PALLETIZER
Multifunction high level push-type palletizer for bags, bundles, boxes and cardboard boxes with vacuum pick up head for placing 6 to 13lbs (3 to 6 kg) bags into a case. Capacity: up to 2,700 bph.
The advanced mechanical, electronic and computer technology that the Concetti Group uses in an integrated way represents the true strength of our company - and helps to guarantee fast and efficient after sales servicing.

**HOT-LINE**

The hot-line is available to users in order to provide rapid technical advice that will help restore proper plant operation. Through the HOT LINE, customers can always make contact with the best person for solving problems or receiving general advice and assistance.

**TELESERVICE**

Using the latest technology together with the skills of our personnel, the Concetti Group can offer customers a remote supervisory and assistance service, permitting operating diagnostics and modifications to the machine control software by modem.

**TECHNICAL ASSISTANCE**

Our US based engineers dedicate their time to assist our North American Customers.

Over forty technicians at your full disposal.
Concetti North America Corporation guarantees fast response to customer spare parts and service requests.

REGULAR MAINTENANCE

Technicians from the Concetti Group of companies are available to provide routine maintenance on plants that are already in operation. Please contact us for more information on this service.

SPARE PARTS

The Concetti North America Corp. carries extensive stocks and guarantees a fast response to requests for any spare parts that may be needed. An office based in Atlanta, has been set up to manage customer contacts specifically for this purpose.
WHAT OUR CUSTOMERS SAY

Robert Affalter, Honeywell:
“...Concetti is a respectable company that follows through on its commitments and provides realistic solution and customization to solve difficult problems. Our Product is a challenging one and solutions provided and implemented by Concetti have made a lot of difference in the performance of the equipment”.

Tom Walz, The Amalgamated Sugar Company:
“Cost savings in both material and labor are substantial”.

Grant Seibert, DSM:
“The accuracy and consistency of the net weigher has allowed us to the reduce batch overage necessary to deliver the required number of bags at guaranteed weight... Concetti delivers what they promise in their speed, weighment accuracy and reliability which has exceeded my expectations”.

Fred Taylor, Quikrete:
“The overall reliability of the palletizer is quite remarkable. The quality and consistency of the product stack is outstanding”.

REFERENCES

CHEMICAL, PLASTIC, FERTILIZERS AND OTHER PRODUCTS

A. SCHULMAN PLASTICS, AKZO NOBEL, AMANDUS KAHL, ANOREL NV, ARDEX GROUP (CEMIX), A.W.E. GROUP (RIVER SANDS), BASF, BAYER, BERTRAMS, BRUNNER MOND, CALDERSYS GERMANY, CALGON CARBON, CHEETHAM SALT, CHEMVIRON, CELANESE (TICONA), CHEMTURA (GREAT LAKES CHEMICALS), CLARIANT, COLUMBIAN CARBON, COMPO, CONSTAB, COPERION, CRODA, DEGUSSA, DOW, DSM CHEMICALS, DUPONT, EKO ENERGY, ERCROS, ESCO, FERRO, GERMAN PELLETS, GEZOLAN AG, HAIFA CHEMICALS, HANSON, HENKEL, Hexion Specialty CHEMICALS, HOLCIM, HONEYWELL, INEOS - CHLOR VINYL, INSTARMAC, J.M. HUBER, J. RETTENMAIER & SÖHNE, JUBILANT INDUSTRIES, KALPENA, KATOEN NATIE, KEMIRA, KLI ORGANIC, KLK, KL KEPONG OLEOMAS, LAFARGE - PLR SVENSKA HÖGANÄS, LINZER AGROTRADE, LONZA, MARAKUNDA, MOZYRSALT, NATURE'S BEST, NIKOCHEM, NILIT PLASTICS EUROPE, NOVARTIS (CIBA), NUOVA SOCOCI, ONNICON, ODEBRECHT, OPTIROC, PROMAT, QUIKCRETE, REMIX DRY MORTAR (AGAR GROEP), RUSSTAL, SASOL, SKW STICKSTOFFWERKE, SONA SANAYII AS, SOUTUTIA UK (FLEXIS), SOLVAY, TATA CHEMICALS, TESSENDERLO, TOTAL, TM PROGRESS, TRANSGRANADA, TRIFERTO, URALCHEM-AZOT BEREZNIKI, WESTBUILD PRODUCTS, XINJIANG TIANYE GROUP, YARA, ZHONGTAI, ZIRAX.

FEED GRAIN FOOD

AJINOMOTO, ALF ISSEN, AMALGAMATED SUGAR, AMYLOM, ASSOCIATED FEED (CAL MIL), AVEVE, BAY STATE MILLING, BIOMIN, BOGDANOVICH, BOSCH TIERNHURNG, BURGESS SUPAFEEDS, CAMBRIAN PET FOODS, CARGILL, CENTRE SEM, CIMBRIA, COFCO TUNHE CHONGZUO SUGAR INDUSTRY, DANISCO SUGAR, DIBAQ ITALIA, DOBSON & HORREL, DOSSCHE MILLS, DOX-AL ITALIA, DSM NUTRITIONAL, EFFE EFFE, EWOS, F. URL & Co, FARMINA (RUSSO MANGIMI), GATCHINSKY, GHEDA MANGIMI, GUPTA FOOD, HAWAIIAN SUGAR COMPANY, JUBILANT AGRI, LATTERIA SORESINA, LEHMANN LINDMÜHLE, LESAFFRE - RED STAR, LIMAGRAIN, MAKFA, MANGIMI PETRINI, MccORMICK, MILK PRODUCTS, MONSANTO, NDF AZTECA MILLING, NOVA FOODS, NUTRECO, NUTRIX PIU’, PIONEER HI-BRED, PREMIER NUTRITION, PRODIMEX, PROVIMI, RKW SÜD WÜRZBURG, ROQUETTE, RUPP MÜHLE HÖRBRANZ, RWA LINZ, SENSIENT DEHYDRATED FLAVORS, S.I.S. SOCIETÀ ITALIANA SEMENTI, SKRETTING AS, SOLAN KRAFTFUTTERWERK, SOUSS CEREALES, ST. PETERSBURG MILL, STANDLIEE HAY, STO POSTO, SÜDZUCKER, SUZHOU JIAE FOODS, SYNGENTA, TATE & LYLE - AMYLM, THE HAWAIIAN SUGAR COMPANY, T.I.G.E.M., TROUW, UNSER LAGERHAUS WHG, VITAL, WENHUI FOOD INDUSTRY, ZERNOPRODUCT, ZHENJIANG NANHUA SUGAR CO.
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