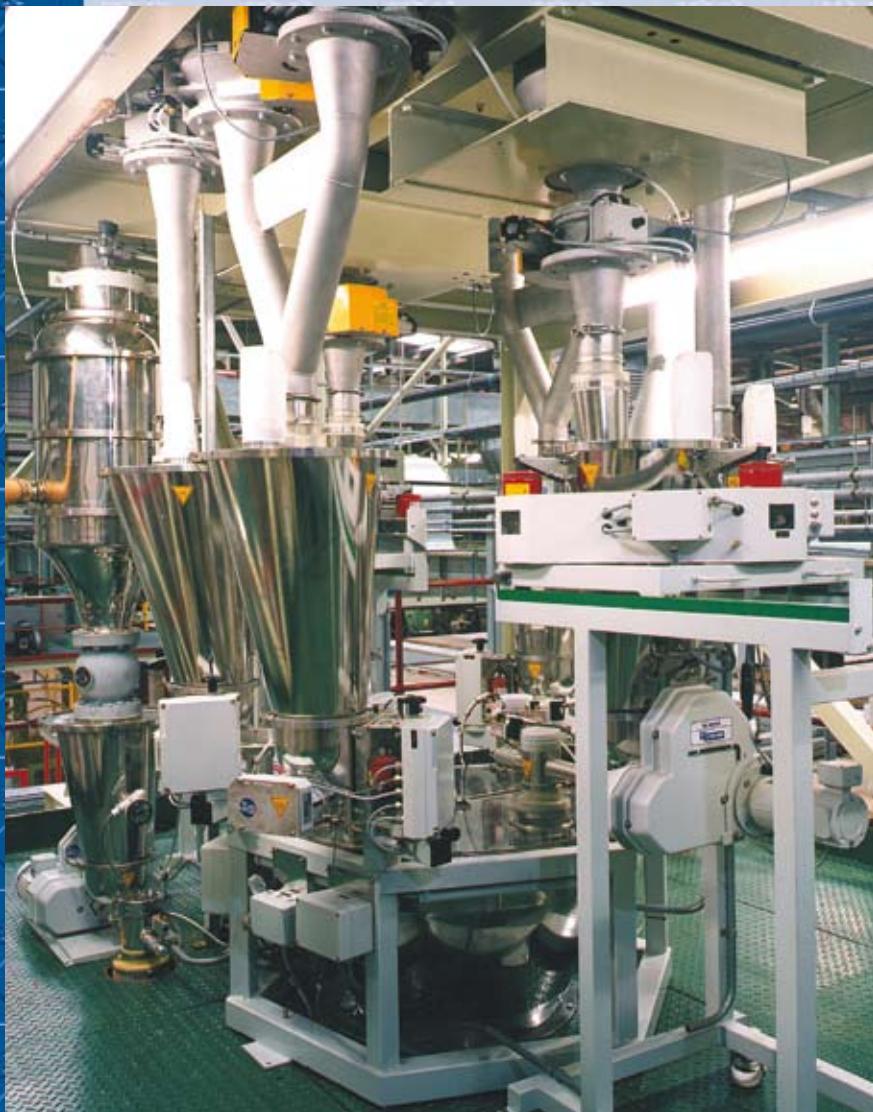


K-Tron Process Group

The Technology Leader for
Process Feeding and Conveying Equipment



K-Tron Process Group

Creating Value
for Customers,
Shareholders,
Employees and
Associates

Mission

K-Tron is a global leader in the design, production, marketing and servicing of high-quality feeders, pneumatic conveying systems and related equipment for the handling of bulk solids in a wide variety of manufacturing processes.

At K-Tron, our mission is to create value for our customers, shareholders, employees and associates by producing superior feeders, vacuum conveyors and related material processing equipment.

The Company Focus

K-Tron's focus on creating value has made it the preferred feeder company of leading manufacturers around the world. Eighty percent of the Fortune 100 industrial companies have purchased K-Tron feeders, and K-Tron is a major supplier to regional and local processors. With roots more than 100 years old, K-Tron defines the leading edge in designing, manufacturing and marketing feeders and related equipment.

A Global Presence

K-Tron is headquartered in Pitman, New Jersey USA and has more than 500 employees in the United States, Europe and the Far East. It is further represented by more than 80 sales organizations with over 100 offices in more than 60 countries around the world.

Complete Control Over Design and Manufacturing

K-Tron has complete control over the design and manufacture of its own weighing, mechanical and control systems. K-Tron holds more than 35 patents for weighing, mechanical and control technologies and their application to bulk solids handling.

Our People Guarantee Reliability and Satisfaction

K-Tron fully supports customers before and after the sale with services to help them derive full value from their equipment purchases. The company's total dedication to satisfying processors' needs has led to long-term relationships with these customers. Through its people, as much as its technology, K-Tron is able to deliver feeders and services that consistently provide a high level of performance and long-lasting value.

K-Tron Milestones

1900

Soder AG is founded in Niederlenz, Switzerland, to manufacture mills for the food industry

1949

K-Tron (then known as Monsell) is founded in USA to manufacture pneumatic scales

1972

K-Tron introduces the first digitally controlled belt feeder worldwide

1975

K-Tron acquires Soder AG

1976

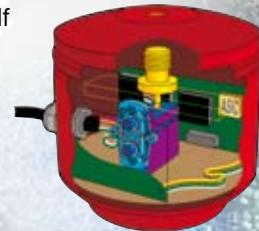
K-Tron introduces the first all-digital loss-in-weight feeders

K-Tron Core Technologies



Mechanical: Materials Handling

No two process applications are the same, and K-Tron offers the widest range of materials handling solutions in the industry. All volumetric feeders, loss-in-weight feeders, weigh belts, flow meters and conveying systems are offered in a variety of configurations. Volumetric and loss-in-weight feeders are available in single and twin screw configurations or as vibratory trays and liquid or solids pumps. Weigh belts come in multiple sizes in open or closed frame configuration. Flow meters are available in multiple sizes with or without prefeed devices. Vacuum conveying systems can be self contained or central systems and filtered or nonfiltered units.



Digital Weighing: SFT Technology

K-Tron's unique vibrating wire weighing technology is based on the fact that the resonance frequency of an oscillating wire depends on the wire tension produced when a load is applied. Force, when derived from an applied weight, is transferred mechanically to the wire. The resonant frequency of the wire is then measured to determine the weight with a resolution exceeding 1 part in 4 million.



Control: SmartConnex Architecture

K-Tron's SmartConnex concept represents a new control environment that tightly integrates the core technologies of a feeder system—mechanical design, control algorithm and weighing technology. This greatly reduces the cost of installation and daily operation, makes the system easier to use and maintain, and provides an optimum level of performance. A key component combines motor drive and control unit functions into a small box that mounts directly on the feeder. This K-Tron Control Module (KCM) serves as the feeder's brain and controls the feeder for either batch or continuous processes.



In multi-feeder applications, SmartConnex can be used to form a network of feeders using simple field wiring techniques with superior performance.

1989	1997	1999	2000	2001	2003
K-Tron introduces modular feeders with Smart Force Transducer weighing	K-Tron acquires Hurricane Pneumatic Conveying Inc. K-Tron opens a representative office in Shanghai, China	K-Tron introduces SmartConnex Control System and SFT III	K-Tron acquires Colormax Ltd	K-Tron acquires Pneumatic Conveying Systems Ltd (PCS)	K-Tron acquires Penn Crusher Corp. and Jeffrey Corp.

K-Tron International at a Glance

Public company headquartered in Pitman, New Jersey USA

NASDAQ symbol KTII

Over 500 employees worldwide

Yearly sales in excess of US \$112 million



Designs, manufactures and markets high quality feeding equipment, conveying systems, size reduction equipment and electronic components worldwide

Internet address:
www.ktron.com

K-Tron International Family



Volumetric and gravimetric feeding equipment



Pneumatic conveying systems



Auxiliary and blending equipment for the plastics industry



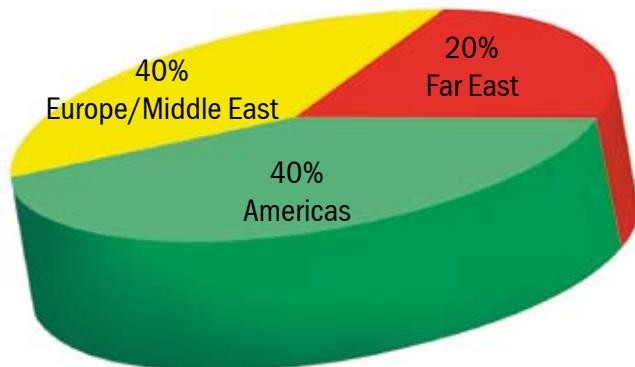
Electronic design and assembly manufacturing



Size reduction equipment for heavy industry

K-Tron Process Group

Markets Served



Industries Served

- Aluminum
- Building Materials
- Chemical
- Coatings
- Compounding
- Detergents
- Filaments
- Films
- Feeds
- Food
- Hygiene Products
- Paper
- Pharmaceuticals
- Plastics
- Others

Services Provided

- Consulting and process planning
- Systems engineering including third party products
- Material tests in state-of-the-art test laboratories
- Supervision during systems installation
- Start-up and commissioning of systems
- On-site training of customer personnel
- Preventive maintenance of systems
- 24 hour spare parts and repair services
- Emergency service and 24 hour hot-line
- Retrofit of installed systems with new technology

Smart Volumetric and Gravimetric Feeders and Mass Flow Meters for Material Control in Batch and Continuous Applications

K-Tron feeders provide high-accuracy solutions to handle a wide range of ingredients – from chocolate chips to fiberglass and from floodable powders to waxy liquids. The K-Tron feeder product line includes volumetric feeders, loss-in-weight feeders, weigh belt feeders and mass flowmeters for bulk solids or liquids and related controls for continuous or batch processes. These feeders are used in the chemical, detergent, food, pharmaceutical, plastics and other industries.

Typical Applications and Feeding Solutions



Modular Volumetric Feeders

Volumetric twin and single screw feeding of dry bulk materials when accuracy by weight is not critical.



Modular Loss-in-Weight Feeders

Gravimetric loss-in-weight feeding of dry bulk materials and liquids when accuracy by weight is critical.



Weigh Belt Feeders

Gravimetric weigh belt feeding of dry bulk materials when accuracy by weight is critical and limited headroom is available.



Plastics Extrusion

This application shows four K2 Modular loss-in-weight feeders feeding various resins and additives into a compounding extruder to produce an engineered resin used to make automotive components.



Food Processing

K-Tron K2-ML-T60 loss-in-weight feeder feeding ingredients into a continuous mixing system for the manufacture of dough used in the snack food or bakery products industries.



Bulk Solids Pump Feeders

Volumetric and gravimetric positive displacement feeders for free-flowing materials.



Smart Flowmeter

Gravimetric metering of dry bulk materials.



Compact Micro-Ingredient Feeders

Gravimetric low rate loss-in-weight feeding of dry bulk materials and liquids when accuracy by weight is critical.



Pharmaceutical Feeders

Volumetric and loss-in-weight twin screw feeding of dry bulk materials. Pharma feeders are designed for sanitary construction, quick disassembly and easy cleaning.

Self-Contained and Central Vacuum Receiving Systems for Conveying of Bulk Materials

Product Overview

K-Tron PCS vacuum receiving systems are the smart choice for feeder refill or other pneumatic conveying applications. For fine or dusty powders, the P-series offers compact filtered units which are ideally suited for use in the food and pharmaceutical as well as plastics and chemical industries. The patented dual cyclone design used in K-Tron PCS M-series loaders and receivers handles a wide range of materials without the need for filters required by conventional vacuum conveying systems.



M-Series Self-Contained Receivers

Filterless and filtered units with integrated vacuum pump for conveying a wide range of materials over short distances from day bins or other portable containers.

M-Series Central Receivers

Filterless and filtered units for conveying a wide range of materials over long distances from silos to the process area.

P-Series Central Receivers

Filtered units for use with powders and in sanitary applications.

User-Friendly Controls

HCU controller and HSU hand-held interface for self-contained and single central units



Foam Extrusion Manufacturer

K-Tron PCS Central Filtered Receiver is used to convey a very fine foaming agent from sack tip stations to a volumetric feeder in the process area.



Smart Material Handling and Loading Solutions



Auxiliary Equipment
for the Plastics Industry

Product Overview

K-Tron Colormax blenders feature Posimax feeders with integrated refill systems to blend two to four ingredients prior to processing. The volumetric Multiflow blender (below left) provides high accuracy for materials with consistent bulk density. In addition, the gravimetric Multiweigh blender (below right) offers control by weight and provides material usage reports and recipe control. The K-Tron Colormax line also includes vacuum loaders and volumetric feeders for plastics extrusion and molding applications.

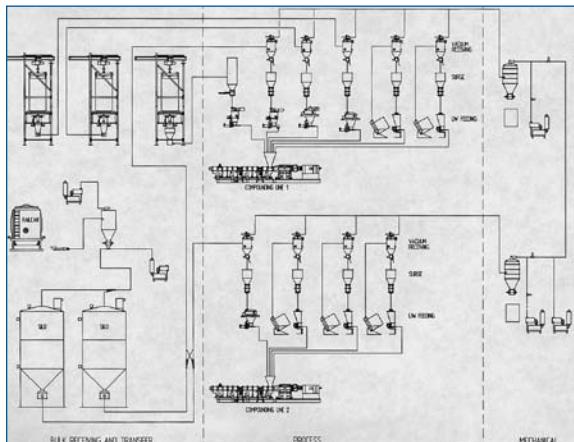




Smart Engineering,
Electronic Design,
Testing, Training,
Service and Support
Solutions for All
Your Material
Handling Needs

K-Tron Process Group

Since its founding, K-Tron has been at the forefront of smart technology for material handling applications in the process industries. K-Tron also offers smart engineering, electronic design, testing, training, service and support solutions over the life of K-Tron equipment ownership.



Systems Engineering Support

K-Tron is the logical starting point for processors in search of smart, effective solutions for bulk material handling and feeding. K-Tron engineering design support is available for single or multi-station systems designed to meet your complete application needs, including design of structure and installation.



K-TRON ELECTRONICS

Electronic Design

K-Tron Electronics designs, assembles and tests electronic circuit boards and electro-mechanical assemblies for K-Tron feeder and conveyor controls. K-Tron also provides automated surface mount, through-hole assembly, automated testing, engineering and development services for outside OEMs.



Testing

Selecting the right feeding or conveying equipment depends on material handling characteristics, required accuracy, rate of material throughput, data communication needs and physical constraints such as plant headroom and the processing environment. K-Tron's modern material test facilities are available at no charge to test your materials and help in making the optimal equipment selection.

Training

The K-Tron Institute provides hands-on startup, operator and maintenance training for all supplied equipment specific to your application. Training can be conducted in K-Tron classroom facilities conveniently located around the world or may be arranged on site.



Service and Parts

K-Tron maintains a worldwide network of factory-trained service engineers and parts supply centers to provide on-site solutions to keep your process up and running and minimize costly downtime. 24/7/365 technical assistance is also available to help solve customer problems.

Website

www.ktron.com provides a quick and convenient way to find information, ask a question, request a quote or order literature from K-Tron.





www.ktron.com

K-Tron Process Group

World Headquarters

K-Tron International, Inc.
Routes 55 & 553, PO Box 888,
Pitman, NJ 08071-0888 USA
Tel +1 856-589-0500
Fax +1 856-582-7968
E-mail ktii@ktron.com

Manufacturing, Sales & Service

K-Tron America, Inc.
Routes 55 & 553, PO Box 888
Pitman, NJ 08071-0888 USA
Tel +1 856-589-0500
Fax +1 856-256-3281
E-mail ka@ktron.com

K-Tron (Switzerland) Ltd
Industrie Lenzhard
CH-5702 Niederlenz
Tel +41 62 885 71 71
Fax +41 62 885 71 80
E-mail ks@ktron.com

K-Tron PCS GB
46 Europa Business Park
Bird Hall Lane, Cheadle Heath
GB - Stockport, SK3 0XA
Tel +44 161 491 6225
Fax +44 161 491 6229
E-mail kb@ktron.com

K-Tron Colormax Ltd.
3 Stafford Park 12
GB - Telford TF3 3BJ
Tel +44 1952 292 101
Fax +44 1952 292 761
E-mail info@colormax.co.uk
www.colormaxltd.com

Sales & Engineering Offices

Asia-Pacific
K-Tron Asia Pte Ltd
10 Bukit Batok Crescent
#04-05 The Spire
Singapore 658079
Tel +65 6899 7255
Fax +65 6569 7600
E-mail kap@ktron.com

China
K-Tron China Ltd.
Rm 907 Sinotrans Mansion
No.188 Fujian Road
CN-200001 Shanghai
Tel +86 21 6375-7925
Fax +86 21 6375-7930
E-mail kcn@ktron.com

France
K-Tron France S.à.r.l.
56, boulevard de Courcerin
FR-77183 Croissy-Beaubourg
Tel +33 1 64 80 16 00
Fax +33 1 64 80 15 99
E-mail kf@ktron.com

Germany
K-Tron Deutschland GmbH
Im Steinigen Graben 10
DE-63571 Gelnhausen
Tel +49 6051 9626 0
Fax +49 6051 9626 44
E-mail kd-g@ktron.com

Independent Sales Offices

Belgium
K-Tron Benelux b.v.
Kontichsesteenweg 17
BE-2630 Aartselaar
Tel +32 (0)3 870 96 40
Fax +32 (0)3 870 96 41
E-mail info@ktron.be

Japan
K-Tron Japan
Verder Co., Ltd
5-8-8 Shinjuku, Shinjuku-ku
JP-Tokyo 160-0022
Tel +81 3 3351 9811
Fax +81 3 3351 9815
E-mail info@ktron.co.jp

Netherlands
K-Tron Benelux b.v.
Postbus 1
NL-3450 AA Vleuten
Utrechtseweg 4 A
NL-3451 GG Vleuten
Tel +31 (0)30 677 9260
Fax +31 (0)30 677 9269
E-mail info@ktron.nl

Related Businesses

Jeffrey Specialty Equipment Corp.
398 Willis Road
Woodruff, SC 29388
USA
Tel +1 864-476-7523
+1 800-615-9296
Fax +1 864-476-7510
E-mail sales@jeffreycorp.com
www.jeffreycorp.com

Pennsylvania Crusher Corp.
600 Abbott Drive, P. O. Box 100
Broomall, PA 19008-0100
USA
Tel +1 610-544-7200
+1 610-543-0190
E-mail buster@penncrusher.com
www.penncrusher.com

Gundlach Equipment Corporation
One Freedom Drive
Belleville, Illinois 62226
USA
Tel +1 618-233-7208
+1 618-233-6154
E-mail bettercrushers@gundlach.us
www.gundlach.us

