



الخليج للتطبيق الهندسي و التغليف م م ح
GULF APPLICATION
 ENGINEERING AND PACKAGING FZE



EXCLUSIVE DISTRIBUTOR FOR



Adhesive Systems
 Non-Woven
 Polymer Processing

Industrial Coating Systems
 Engineered Fluid Dispensing
 Test & Inspection

Industrial Printing & Labelling Solutions



Sustainable Cleaners
 & Release Agents



Labelling Machines



Finish Solutions
 Coating Lines



Fire Protection Systems
 For Powder Coating



UV Lamps
 For Industrial Curing



UV Lamps
 For Purification



Electronics
 PCB Assembly



Electronics
 Testing Solutions



Electronics
 Conformal Coating



Electronics
 Assembly Materials



Electronics
 PCB Assembly



Electronics
 Cleaning Solutions



Electronics
 ESD Equipment



Bulk Material Handling
 For the Plastics Industry
 & Food Safety



Polymer Extrusion
 & Compounding

ABOUT GAEP

PACKAGING & ADHESIVE DISPENSING

INDUSTRIAL ECO-CLEANERS

END OF LINE AUTOMATION

PRINTING & LABELLING

INDUSTRIAL COATING

UV CURING/UV PURIFICATION

PRECISION FLUID DISPENSING

ELECTRONICS MANUFACTURING

POLYMER PROCESSING

BULK MATERIAL HANDLING

FOOD PROCESSING

RAILWAY CLEANERS

Gulf Application Engineering and Packaging FZE (GAEP) is a Free Zone Establishment company located in Jebel Ali Free zone, Dubai, United Arab Emirates. It has been in operation since 1989. GAEP offers sales and after sales support in the Middle East and West Africa Region for the brands we represent, backed by a team of highly skilled Engineers and Product Specialists. Our main objective is to attain the highest level of customer satisfaction and to build and maintain long term business relationship with our valued customers.

GAEP is the appointed Exclusive Sales and Service representative of Nordson Adhesives (including Non-Woven), Nordson Industrial Coating Systems, Nordson Advanced Electronics and Nordson PPS.

Together with Nordson we also represents AABO IDEAL, Alpha-Cure, STS, Intrex, Gard, Seica, Mycronic, HumiSeal, Indium Corporation, DCT Cleaning Solutions, Extruder Experts, and Kreyenborg for the Middle East and West African Region.

Domino is one of our leading products and we represent them exclusively in Saudi Arabia via SETECH.

To enhance our sales and after sales support in Saudi Arabia, SERVICES TECHNOLOGIES ESTABLISHMENT (SETECH) handles the sales activities and GAEP ARABIA follows up the after sales services.

GAEP operates in West African Market via SAFPACK, the regional office in Ivory Coast.



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PACKAGING & ADHESIVE DISPENSING

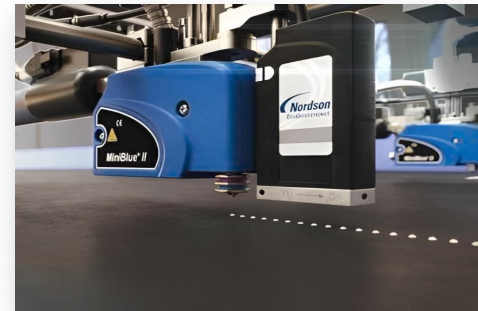


ADHESIVE DISPENSING SYSTEMS

HOT-MELT - Packaging & Product Assembly



- Adhesive Dispensing Equipment and Hot Melt Machines
- Designed for **application of Adhesives, Sealants and Coatings** in a variety of patterns to consumer and industrial products in packaging, product assembly and non-woven.
- **Precision, reliability** and **repeatability** for a large number of applications.



Adhesive Melters



Applicators



Spare Parts



Control Systems



Pattern Generators

Save up to 60% glue with EcoBead



Filling Systems

NON-WOVEN - Disposable Hygiene Products Manufacturing



- Qualified to support high-speed converting of rolled goods for disposable hygiene products, including **baby diapers, adult incontinence** or **feminine care** products.
- Precise dispensing of **Hot-Melt Adhesives, Lotions, Perfumes, Waxes**, etc.



High-Speed Lines



Versa™ Melters

Tank Sizes: 12, 25, 50 and 100L



Spray Applicators



Coat Applicators



Controllers



Nozzles



Spare Parts



Harmony® Applicators



Harmony applicators support a family of applications ranging from **continuous contact** or **spray** to demanding **ultra-high-speed intermittent applications**.

Harmony applicators are configured to meet current and future application demands; field service can update these configurations as needed to adapt to changing product application requirements.

Rebuilds are fully supported with convenient kits to **reduce the cost of ownership**.



END OF LINE AUTOMATION

GAEP APPROVED
ASSEMBLED AND
TESTED IN THE UAE

END OF LINE PACKING SOLUTIONS

With **30 years of expertise**, GAEP & SETECH are **trusted industrial machinery suppliers**. We offer a new range of **GAEP-approved machines**, designed to exceed expectations and integrate seamlessly into production processes. **Manufactured in Italy and in China** with **components from Germany, Japan, and Italy**, our machines are **assembled and tested in the UAE**. Each solution comes with a **one-year warranty** on parts, excluding wear parts and consumables.

HOTMELT SEALING: STRENGTH, SECURITY & CONFIDENCE.

Top & Bottom Carton Sealers



Automatic hot melt case sealers with manual adjustment and flap-closer automatically fold the top flaps of **American type boxes** and **glue the top and bottom flaps**.

Filled boxes arrive with lower flaps folded and upper flaps open. As boxes pass through the machine, the upper flaps are folded and sprayed with **hot melt adhesive**.



Carton Erectors & Bottom Sealers



Revolutionize your packaging process with our **automatic carton erector featuring hotmelt bottom sealing**.

Engineered for **speed** and **precision**, it effortlessly erects and seals cartons, optimizing efficiency and ensuring **secure closures for your products**.



Carton Top Sealers



Tailored for **heavy-duty cartons**, our carton top sealer with hot melt technology offers **unparalleled strength surpassing traditional tape**.

It ensures the **integrity** of your packages, providing both **robust security and peace of mind**.



END OF LINE AUTOMATION

GAEP APPROVED
ASSEMBLED AND
TESTED IN THE UAE

END OF LINE PACKING SOLUTIONS

EFFICIENCY, PRECISION & RELIABILITY

Automatic Carton Filling Stations

The perfect complement to our high-performance carton erector and bottom sealer. Designed for efficiency and precision, it **effortlessly fills boxes at optimal speeds**, ensuring **seamless integration into your production line**.

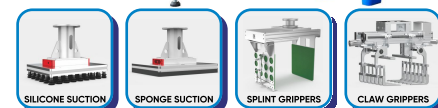


Palletizing Robots/Cobots

A flexible automation solution for **modern industries**, our **compact and robust system** combines collaborative robotics with customizable peripherals for seamless integration in diverse production environments. **Rapidly deployable and space-efficient**, it's ideal for various industries.



from 20 to 180kg



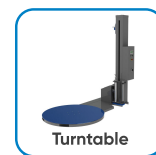
Pallet Wrappers

Our **compact and durable pallet wrappers** ensure secure and efficient load containment. With **customizable settings** and **easy integration** into existing production lines, they offer seamless adaptation to various packaging needs

Customizable



Mobile Wrapper



Turntable



Arm Wrapper

Pallet Labeller



The **Domino M230i P150** is a durable, automated pallet labelling system designed for precise **multi-sided labelling**. It integrates easily with **ERP systems**, **supports GS1-compliant labels**, and **operates reliably in harsh environments**. With customizable print formats and strong safety features, it's ideal for **enhancing logistics** and **production efficiency**.

Up to 3 sides



M230i - P150



INDUSTRIAL PRINTING & LABELLING

DOMINO PRINTERS, CODERS & MARKERS



We are the **exclusive distributor of Domino** industrial printers in **Saudi Arabia**, providing **high-quality printing** solutions to various industries.

Domino printers are commonly used in industries such as food and beverage, pharmaceuticals, personal care and cosmetics, automotive, and electronics.

Ax-Series | Continuous Inkjet (CIJ)



The Domino Ax-Series continuous inkjet printers deliver **high-speed, accurate coding on virtually any surface**. Featuring advanced ink drop technology, the printers optimize ink usage and accuracy, while the i-Pulse system ensures rapid, high-contrast printing of durable messages, even on multiple lines. Designed to handle tough post-print processes, i-Pulse inks adhere to a wide range of substrates.

Primary Packaging

Various Substrates



Gx-Series | Thermal Inkjet (TIJ)



The Domino Gx-Series offers advanced thermal inkjet (TIJ) printers that are easy to integrate and operate. They deliver **high-resolution printing** ideal for complex codes, check weighing, and track & trace applications across FMCG industries. With the latest networking technology, these printers support **high-speed, high-volume production** and offer easy print head integration and remote controller mounting for maximum uptime.

Primary/Secondary Packaging

Various Substrates



Vx-Series | Thermal Transfer Overprinter (TTO)



Domino's Vx-Series deliver **high-resolution printing on flexible packaging**, supporting **variable data and machine-readable codes**. Easy to integrate with packaging equipment, they minimize downtime and costs with features like **300 dpi resolution**, cassette-based ribbon loading, and **four ribbon-saving modes** that can reduce ribbon use by **up to 60%**.

Primary Packaging

Flexible Packaging



Cx-Series | Large Character (PIJ)



The Domino CX350i is a printer designed for **direct coding on corrugated cardboard substrates**. It delivers **high-resolution, durable printing, ideal for creating clear codes and graphics on corrugated boxes**. The printer reduces waste and downtime while supporting sustainability, making it an efficient choice for demanding production environments.

Secondary Packaging

Carton

Board

Corrugate

Construction Materials

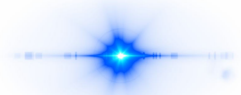


INDUSTRIAL PRINTING & LABELLING

DOMINO PRINTERS, CODERS & MARKERS



Lasers Coders | 3 Technologies



Domino's comprehensive range of laser marking solutions includes **CO2, Fiber, and UV lasers**, each engineered to meet specific marking needs **across various substrates**.

These lasers provide **high-speed, permanent marking and coding** on materials such as **plastics, metals, glass, and organic materials**.

With options that cater to different industries, Domino's laser systems ensure precise, durable marks while **minimizing maintenance and operational costs**, supporting **high efficiency and flexibility in production environments**.

D-Series | CO2 Lasers

Small yet powerful and versatile, Domino Printing's D-Series i-Tech range of CO2 laser printers deliver flexible, high speed, high quality coding across a wide variety of materials, with the ability to produce multiple lines of text.

Various Substrates Paper and Cardboard, Glass, Plastics, Wood & MDF, Ceramics, Leather



F-Series | Fibre Lasers

For permanent, precise laser marking of crisp, clear codes onto a wide range of materials, one of Domino Printing's potential solutions is the F-Series fibre laser system.

Various Substrates Metals, Hard Plastics, Coated Metals, Ceramics, Carbon-based Materials



U-Series | UV Laser

Discover the U510 UV laser: The compact all-in-one laser coder excels on modern sustainable packaging developments such as recyclable flexible mono-material polymers including thin films.

Various Substrates Glass, Plastics (clear and light colored), Silicon Wafers, Ceramics, Coated Materials, Rubber, PCBs



Mx-Series | Case Labellers



Easily integrated into your production line, our range of **Print and Apply labelling** systems are **reliable, flexible, robust** and can be configured for a wide range of applications.

Tertiary Packaging



R-Series | Verification Systems



The Domino R-Series is a **real-time verification system** that ensures the **accuracy of printed codes on packaging**. It uses high-resolution cameras to detect defects and inconsistencies, helping manufacturers **maintain compliance** and **reduce waste by catching errors early**. The system integrates seamlessly into production lines, **safeguarding product traceability and brand reputation**.



✓ Code Presence

✓ Code Position

✓ Character Count

✓ Machine Readable Codes Check

✓ Content Checking - OCR/OCV



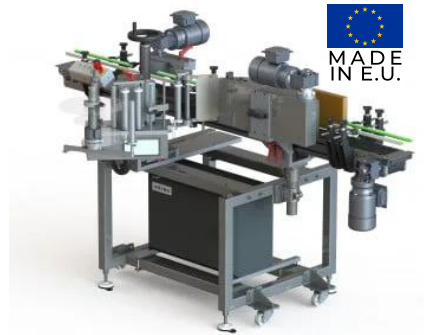
INDUSTRIAL PRINTING & LABELLING

LABELLING SOLUTIONS

intrex Labeling Solutions

Intrex labellers, known for their **quality and reliability**, can be seamlessly **integrated with Domino** solutions to deliver **high-end, precision labelling systems**. These advanced labelling systems are ideal for industries that demand **accuracy and durability**, offering **robust performance** in even the most **challenging production environments**.

The combination of Intrex's expertise in labelling with Domino's coding and marking technology ensures top-tier, fully integrated packaging solutions.



Cylindrical Products Labelling

Top & Bottom Labelling

Side Labelling

Food & Beverages Production

Multiple Labelling

Over the Edge Labelling

Tamper Evident Labelling

Cosmetics Industry

Pharmaceuticals

GAEP APPROVED Labelling Solutions

Top Labeller for Flat Surface

Streamline your labelling process with our top flat labeller. Designed for **simplicity and efficiency**, it automatically applies labels to **flat surfaces**, ensuring precise and consistent results for your packaging needs.

Product LxWxH: 500x500x500mm

Label LxW: 10-260x10-150mm

up to 150 items/min

Precision \pm 1mm



Labellers for Round and Flat Surface

Versatile **round and flat product labeller**. Designed for precision and adaptability, it seamlessly applies labels to a **variety of product shapes**, streamlining your packaging operations with **efficiency and accuracy**.

Product Size: Customizable

Label Size: Customizable

up to 150 items/min

Precision \pm 1mm

Siemens or Panasonic PLC

Sick Sensors



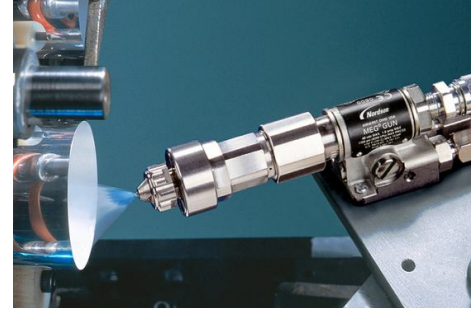
INDUSTRIAL COATING

INDUSTRIAL COATING SYSTEMS

Container Coating - Can Production

Leader in developing **Advanced Coating, Dispensing and Curing Systems** used in the **Production of Beverage and Food Containers**.

For more than 30 years, containers manufacturers worldwide have relied on Nordson.



Powder Coating

Nordson offers a comprehensive range of powder coating equipment designed to meet the diverse needs of industries seeking **high-quality, efficient, and reliable coating solutions**.

Whether you require manual or automatic systems, Nordson's technology ensures superior performance and productivity across all applications.



Manual Powder Coating Equipment

Encore® LT

Light, easy, and efficient, ideal for inexperienced users with intuitive controls.

Encore® XT

Advanced features with closed-loop air volume control for repeatable, superior coatings.

Encore® HD

Delivers unmatched productivity, perfect for coating challenging products.

Encore® PE

Designed for enameling applications with exceptional wear resistance.

Automatic Powder Coating Systems

Encore® Spray Systems

Industry-leading efficiency and finish quality for automatic and manual spraying.

Robot-Mounted Systems

Superior performance with high powder output, ideal for fast-moving robots.

Movers and Automation

Vertical and horizontal gun movers enhance coverage, with dynamic contouring for complex shapes.

Powder Coating Booths

Fast Color Change Booths

Configurable for manual or robotic stations with high color change quality.

Mono-Color, Cartridge Recovery Booths

Achieves over 99% powder utilization with energy-efficient design.

Special Applications Booths

Engineered for high application efficiency and minimal powder waste.

Feed Centers

Easy-clean designs for contamination-free color changes, supporting up to 27 inline pumps.



INDUSTRIAL COATING

AABO IDEAL AUTOMATED COATING LINES

AABO-IDEAL provides **advanced surface treatment solutions**, engineered for **high performance, durability, and efficiency**. Designed to meet the needs of various industries, their systems ensure superior quality and reliability across all applications.



- Automotive Parts
- Aluminum Profiles
- Agricultural Machinery
- Home Appliances
- Off-Highway Machinery
- Indoor Equipment
- Shop Equipment
- Outdoor Machinery & Products
- Job Coaters

Pre-Treatment Systems

Tunnel Systems
Designed for high-volume operations, these systems ensure consistent and thorough surface preparation.

Spray Pre-Treatment
Offers flexibility and precise control, making it ideal for diverse industrial applications.

Drying and Curing Ovens

Batch Ovens
Robust and reliable, ensuring uniform curing, perfect for small batches or custom jobs.

Conveyor Ovens
High-capacity solutions for continuous operations, offering precise temperature control and energy efficiency.

Cooling Zones

Cooling Tunnels
Integrated cooling zones designed to optimize the production process, ensuring components are properly cooled before moving to the next stage.

Conveyor Systems

Overhead Conveyor Systems
Efficiently manage production flow with reliable overhead conveyors, suitable for various load capacities and configurations.

Floor Conveyor Systems
Ideal for heavy-duty applications, providing smooth and consistent transport throughout the production line.

Control Systems

Automated Control Systems
Advanced control solutions that enhance operational efficiency, providing precise management of temperature, speed, and other critical parameters for optimal performance.



STS FIRE PROTECTION SOLUTIONS

Fire Protection Systems to protect **automatic and manual electrostatic powder, wet coating systems and packaging lines**.

- Filter and Dust Extraction Systems
- Powder Coating Plants
- Wet Painting Systems
- Flame Detectors
- Smoke Detectors
- Interface for Detector Integration



UV CURING UV PURIFICATION



UV LAMPS FOR CURING

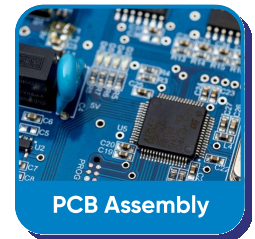
Alpha-Cure, a top manufacturer of **medium-pressure UV curing lamps**, offers a vast range of customizable options for diverse systems. With over **20,000 specifications**, they provide solutions for nearly any UV curing system worldwide, serving industries like **printing, packaging, and automotive**.



Products

- UV Lamps
- 4.0 Lamps
- IR Lamps
- LED UV
- Microwave Lamps
- UV System Reflectors
- Test Strips & Labels
- Quartz Plates
- Cooling Tubes
- Power Supplies
- UV Cassettes

Applications

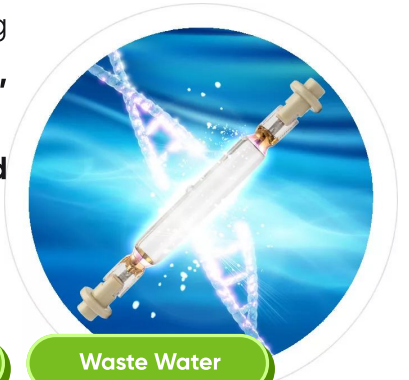


ALPHA-PURIFY

UV DISINFECTION SYSTEMS

Alpha-Purify™ lamps are crafted with precision and quality, ensuring effectiveness in a wide range of applications including **water purification, air sterilisation, and surface disinfection**.

Alpha Purify's products are recognized worldwide for their **reliability and efficiency in germicidal treatments**.



UV Disinfection Solutions for Industries

- Aquaculture
- Packaging & Processing
- Drinking Water
- Food & Beverages
- Waste Water
- Healthcare
- Horticulture
- Oil & Gas
- Mining
- Aquatics (Swimming Pools)



PRECISION FLUID DISPENSING



Nordson EFD's products and solutions fall into two main categories (**Systems and Consumables**). Our systems include **equipment used to apply fluids in assembly processes**. Our consumables include our **disposable, single-use components used to package and dispense fluids** for assembly purposes.

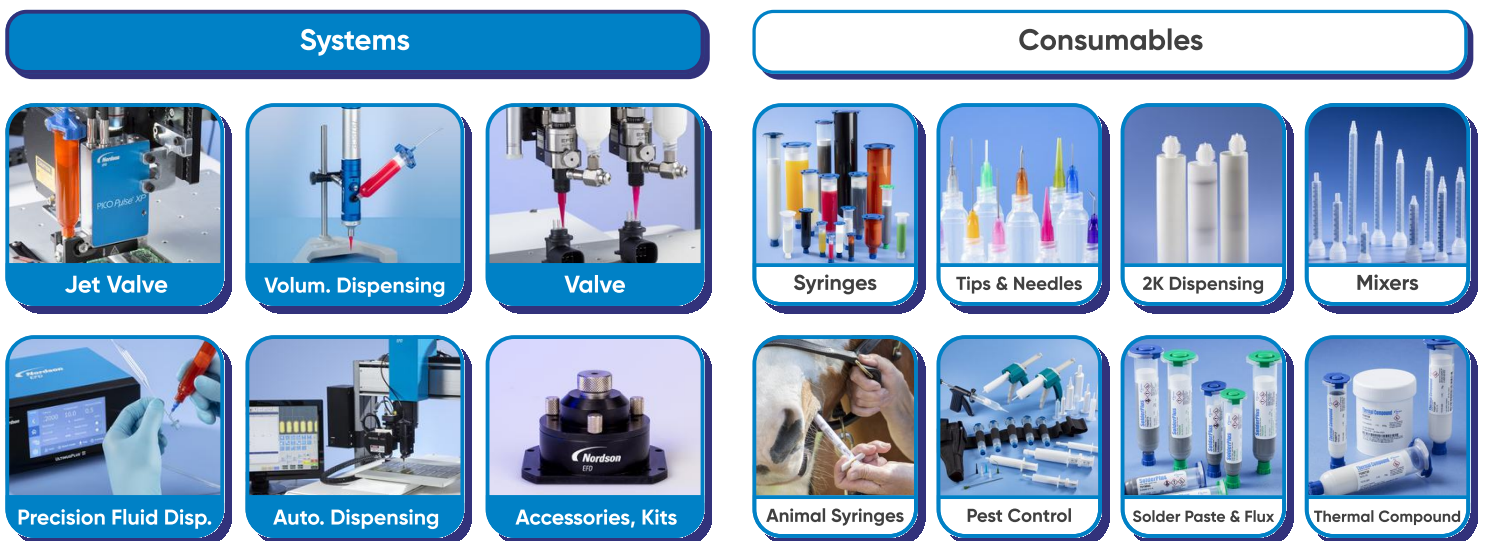
Industries We Serve

From medical and life sciences to electronics manufacturing, Nordson EFD provides precision fluid dispensing solutions to make products used in nearly every industry.



Fluids We Dispense

Our solutions are trusted for applying controlled amounts of adhesives, sealants, oils, and other high-performance assembly fluids. We also offer solder pastes and TIMs.



What is micro fluid dispensing?

Micro fluid dispensing is a manufacturing process that applies precise micron or nanoliter amounts of fluids, such as oils, sealants, and adhesives, to substrates. This technique ensures accurate, consistent fluid application across various manufacturing processes.

What is a jet valve?

A jet valve is a non-contact fluid dispensing technology that uses piezoelectric or pneumatic systems to precisely deposit small amounts of fluid, even on uneven or hard-to-reach surfaces, with high precision and speed.

ELECTRONICS MANUFACTURING




Nordson Test & Inspection provides **high-precision testing and inspection** solutions for industries like **electronics and automotive**, using **technologies such as X-ray, acoustic inspection, and AI-driven analytics** to ensure **manufacturing quality**.


- DAGE & METRICS** X-ray Inspection
- ASSURE** X-ray High Speed Component Counter
- BONDTESTER** Quality Control Solutions
- SONOSCAN** Acoustic Inspection



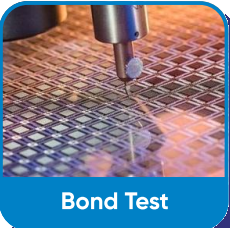
Leaders in C-SAM tools for non-destructive internal inspection and analysis.




Acoustic Inspection



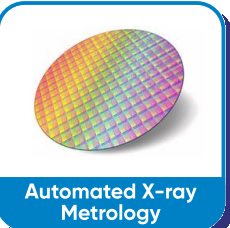
Semiconductor Metrology Sensors




Bond Test



X-ray Technologies



Automated X-ray Metrology



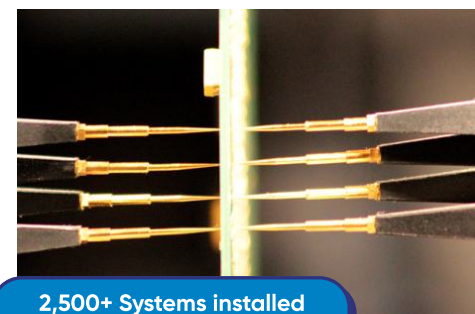
Autonomous X-ray Inspection

Seica ELECTRONICS TESTING SOLUTIONS

Seica S.p.A. is a global leader in automatic test equipment and selective soldering systems, founded in 1986 in Italy.

They provide **advanced testing and soldering solutions** for various industries, including **semiconductor, PCB manufacturing, and military sectors**.

Seica's offerings include in-circuit, functional, and flying probe testers, all integrated with their proprietary **VIVA software platform**, which ensures fast and accurate testing.



2,500+ Systems installed worldwide

- In-Circuit Testing
- Reverse Engineering
- Onboard Programming
- Functional Testing



Seica Pilot VX

- Advanced flying probe test system
- Reduces test time by up to 50% with innovative design and precise motion control.
- Highly flexible with up to 8 heads and 60 probes for simultaneous testing.
- Ideal for fast, reliable, and thorough testing of electronic boards.
- Perfect choice for manufacturers seeking efficient and effective testing solutions.



ELECTRONICS MANUFACTURING

MYCRONIC PCB ASSEMBLY

Bringing Tomorrow's electronics to life

Mycronic specializes in **advanced PCB assembly** solutions and **high-precision production equipment** for **smart factories**. Mycronic's innovations cater to high-mix, low- to mid-volume manufacturing environments, enhancing flexibility and productivity in electronics manufacturing.



High Mix, Low to Mid-Volume

SMT Assembly

- Jet Printing
- Solder Paste Inspection
- Component Placement
- Automated Optical Inspection
- Component Storage
- Process Software

Dispensing and Coating

- Tabletop Dispensing
- In-line Dispensing
- Industrial Dispensing
- Conformal Coating



MYSmart™ MYC50™ MYCRONIC
Advanced **in-line conformal coating** system designed for high-precision, automated PCB coating. It features flexible **multi-axis control**, **automated spray pattern** changes, and robust **process controls**, ensuring consistent quality and high productivity across various electronics applications.

Key Features

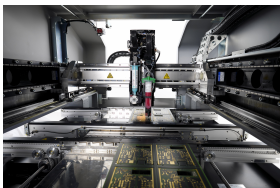
- **High-speed, high-precision** motion platform
- Flexible **multi-axis coating** capabilities
- Automated spray pattern adjustments
- Powerful **process controls** for consistent quality
- Barcode-enabled **program selection** and **traceability**



MYSmart™ MYD10™/MYD50™ MYCRONIC
Compact, fully automated **in-line dispensing systems** designed for high-precision applications in advanced production environments. These systems offer flexible dispensing solutions with advanced jetting technology, enabling consistent and reliable results across a wide range of materials and applications.

Key Features

- **Dual lane conveyors** for optimized throughput
- Configurable conveyor stations
- **Synchronous** and **asynchronous dual valve** configurations
- Pneumatic and electrical tilt options
- **Temperature spot check** for process verification
- **Automatic visual inspection (AVI)** for quality control and traceability



MY700JX™ Dual Head MYCRONIC
The Mycronic MY700JX is a versatile, all-in-one **jet printer and dispenser** designed for high-speed **solder paste** printing and **assembly fluid dispensing** in PCB manufacturing. It offers exceptional flexibility, handling complex boards with precision and speed.

Key Features

- **Dual-Process Capability:** Combines solder paste jet printing and assembly fluid dispensing in a single machine.
- **High Throughput:** Over one million dots per hour, with dual-lane and dual-head configurations.
- **Smart Board Handling:** Adjustable conveyor rails and optimized work area for faster cycle times.
- **Compact Footprint:** Fits within 1.5 square meters, maximizing space productivity.



MYTower™ 5 MYCRONIC
Compact and flexible SMT component storage system designed to optimize space and efficiency in PCB assembly environments. It provides **automated, real-time inventory tracking and retrieval**, ensuring that components are always available when needed.

Key Features

- **Compact Design:** Less than 1.5 m² footprint and 2.26 m height, ideal for limited space.
- **High Capacity:** Stores up to 812 reels, configurable for various reel sizes.
- **Accurate Tracking:** Prevents mix-ups with precise component identification and tracking.

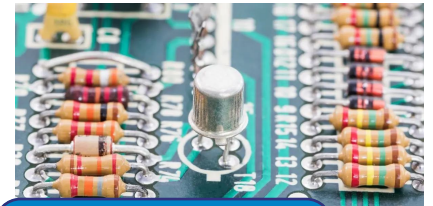
ELECTRONICS MANUFACTURING



ELECTRONICS PRECISION AUTOMATION

Universal Instruments provides a wide range of advanced manufacturing solutions, including **precision automation solutions**.

These systems are designed for **high-accuracy, high-speed** handling, and assembly applications across various industries, including **automotive, medical, industrial IoT, and renewable energy**.



High Speed, High Accuracy

Precision Automation Solutions



Odd-Form Assembly



Advanced Packaging



Hot Bar Bonding



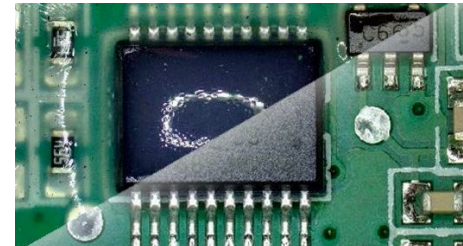
Through-Hole



ELECTRONICS CLEANING SOLUTIONS

DCT Industrial Cleaning specializes in advanced cleaning solutions for the electronics industry. DCT offers innovative **cleaning agents, equipment, and process control**, crucial for PCB and electronic assembly cleaning.

Committed to sustainability, DCT provides **eco-friendly, high-performance products** that meet the **highest industry standards**, serving a global clientele.



Cleaning Agents

Decontron®

Water-based cleaning chemicals

Proton®

Alcohol-based cleaning chemicals

100% Responsibility for the Cleaning Process

Complete Cleaning Solutions



Products

Cleaning Agents

Cleaning Systems

Process Control

Applications



Stencil+Misprint+Squeegee



PCBA Cleaning



Maintenance Cleaning



Conformal Coating Cleaning



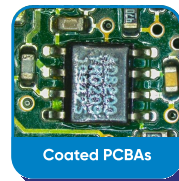
Manual Cleaning



Under Stencil Cleaning



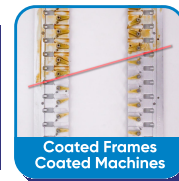
Cleaning of Reflow Ovens and Waves



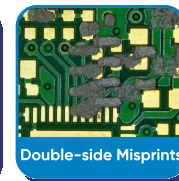
Coated PCBAs



Cleaning PCBA from Dust and Rust



Coated Frames Coated Machines



Double-side Misprints



Manual PCB Cleaning

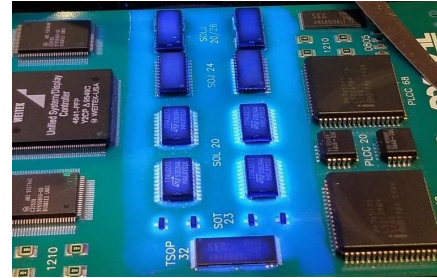


ELECTRONICS MANUFACTURING

HumiSeal® CONFORMAL COATING MATERIALS

HumiSeal®, a pioneer in conformal coating technology with over 60 years of innovation, provides reliable protection for electronic devices across various industries.

HumiSeal® products provide **reliable protection for electronic components** across various industries, ensuring optimal performance in **diverse operating environments**.



ELECTRONICS ASSEMBLY MATERIALS

Indium Corporation is a global **leader in materials science**, specializing in the development and manufacturing of **high-performance materials for electronics assembly, semiconductor fabrication, and thermal management**.

With a rich history of innovation, Indium offers a comprehensive range of products designed to meet the evolving demands of advanced technology industries.



Soldering Products



ESD EQUIPMENT



POLYMER PROCESSING

Nordson POLYMER PROCESSING SYSTEMS

Extrusion and Coextrusion Die Systems



Nordson EDI® specializes in **advanced extrusion and coextrusion die systems** for the **polymer processing industry**. Nordson design and manufacture **high-performance dies for precise and efficient production of plastic films, sheets, and coatings**, ensuring superior quality and reliability.



Biaxially Oriented Film Dies



EDI® BOPE Film Dies
EDI® BOPP Film Dies
EDI® BOPET Film Dies

Cast Film Dies



EDI® Barrier Film Dies
EDI® Breathable Film Dies
EDI® CPP Film Dies
EDI® Optical & Thermally Sensitive Film Dies
EDI® Stretch Film Dies

Die Options & Ancillary Equipment



EDI® Dies Carts



EDI® Deckling Systems



EDI® Lip Adjustment

Sheet Dies

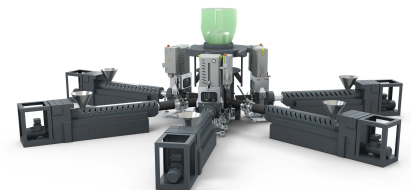


EDI® Ultraflex Sheet Dies
EDI® Polyside Dies
EDI® RPVC Siding Dies
EDI® Stripe Dies

Extrusion Coating & Laminating Dies



EDI® Extrusion Coating & Laminating Dies



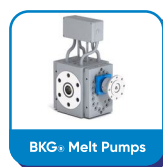
Polymer Melt Delivery & Palletizing



Nordson BKG® is a leading provider of innovative **melt delivery and pelletizing systems** for the **polymer processing industry**. With extensive experience, Nordson BKG® offers high-performance solutions for **underwater pelletizing, melt filtration, and gear pump applications**.



BKG® Melt Filters



BKG® Melt Pumps



BKG® Jet Cleaners



BKG® Pelletizers



RECYCLATES PROCESSING BKG® HiCon™ K-SWE-HD/RS

Recycling Filter for Blown Film Applications

The BKG® HiCon™ K-SWE-HD/RS recycling filter enables processing highly contaminated recyclates in your blown film application without line shutdowns.



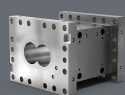
watch video

Polymer Extrusion and Compounding



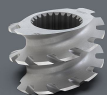
Extruder Experts specializes in **manufacturing and servicing durable wear parts** for **twin-screw extruders**, including **barrels, segments, and shafts**.

Extruder Experts also offer **maintenance, repair, and modernization services** to optimize extrusion equipment performance.



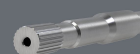
Barrels

Barrel shapes for less wear and tear, as well as better cooling and heating.



Segments

Segments for less maintenance and longer service life.



Shafts

Shafts for extreme protection against breakage and pressure.



MATERIAL HANDLING & FOOD PROCESSING



MATERIAL HANDLING SOLUTIONS

Plastic Drying, Crystallization, Mixing, Storage...

Kreyenborg has been a global partner and solution provider to the plastic industry for more than 50 years.

In addition to innovative turn-key solutions for bulk material handling, Kreyenborg's core competencies are in the fields of **drying, crystallization, storage, mixing, conveying and dosing of plastics.**

Drying and Crystallization

- Customized heat treatment
- PET up to 50ppm / up to 150ppm
- PET sheet extrusion
- PET/PLA/PPS pellets
- PLA regrind
- Amorphous Co-Polyester
- Coating of hotmelts
- Plastics -high moisture contents (>1%)
- Drying, heating and removing of volatile matter from PE Granulate
- Masterbatch – small batches up to 200 kg/h
- PEEK (high temperature polymers)

Mixing and Homogenizing

- Plastics (Flakes)
- Plastic pellets
- Materbatches and compounds
- Glass fiber compounds
- Loosen up and discharge of hotmelt
- Powder



Storage and Discharge

- Plastics (Flakes)
- Plastic fibers
- Film flakes
- Granulate and masterbatch
- PA fibers
- PP fibers
- PVC Film flakes
- PVC
- BOPP
- Xanthan fibers
- PP splints
- PVC soft
- Xanthan fibers



Dosing

- Metering of PET regrind
- Metering of plastic granulate
- Metering of plastic regrind

Feeding

- Conveying of PET regrind with vacuum conveying
- Conveying of plastic regrind with screw conveyors

Food Safety - InfraRed (IRD) Technology

FoodSafety-IRD reduces germs, decontaminates, dries, disinsectizes, opens flavors, roasts and toasts.

Kreyenborg offer turn-key solutions that integrate our problem-solving expertise in storage, mixing, conveying and dosing processes.



- Roasting
- Drying
- Coating
- Stock Protection

Sterilization

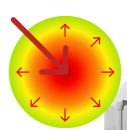
Validated **5-log** Reduction

No Gases or Chemical

Applicable to Organic Products



Infrared Technology



Heat to the product core. Inside to the outside.



Product Integrity Maintained

- ✓ Flavors
- ✓ Colors
- ✓ Odors
- ✓ Essential Oil



INDUSTRIAL ECO-CLEANERS



ADHESIVE CLEANERS - RELEASE AGENTS

Sustainable Adhesive Cleaners

GARD products have been designed to effectively **remove and prevent build-up of glue deposits** and smears on adhesive application and dispensing equipment, as well as on machinery working surfaces.

They can be used with **all grades of hot melt and cold adhesives**.



Hot Melt External Cleaner

External cleaner to remove contamination of hot melt adhesive from machinery and components.

Daily Cleaning



Hot Melt External Cleaner | Non-Woven

External cleaner to remove contamination of hot melt adhesive for the Non-Woven Industry.

Daily Cleaning



Hot Melt Purging Solution

Designed for purging melter tanks, hoses and guns. Used for hot melt maintenance and heavily contaminated parts.

Preventive Maintenance



Hot Melt Anti-Adhesion Compound

Release Agent that prevents from unwanted buildup of hot melt.

Preventive Maintenance

Used in multiple industries

Bottling/Can Factories

Food & Beverages Packaging

Non-Woven Factories

Labelling Lines

For regular deep cleaning



High Temperature Bath (Green HMP)



Digital Ultrasonic Cleaner (EV60)

RAILWAY ECO-CLEANERS



TRAIN CLEANERS

Are you still using high pH chemicals for the exterior cleaning of rolling stock?

High pH chemicals, often caustic-based, are effective for unblocking drains but are unsuitable for cleaning rolling stock due to **risks like dull paintwork, discharge issues, and chemical burns.**

The benefits of using Gard for rolling stocks cleaning include **preserving paint finishes, maintaining discharge limits, high dilution rates, safety in use, compatibility with CWM or manual application.**



ROLLING STOCK CLEANER

pH Neutral
Exterior Cleaner



- ✓ Manual Cleaning
- ✓ Automatic Cleaning

GARD Rolling Stock Cleaner pH Neutral

- External Cleaning
- No Dull Paintwork
- Longevity of Paint/Finishes
- Biodegradable
- High Dilution Rate
- Safety in Use



High Efficiency

Environmentally Friendly

Approved by Numerous Train Manufacturers

Hitachi Rail

ALSTOM

SIEMENS

STADLER



WS DEGREASER

Water Splitting
Degreaser



- ✓ Pit Roads, Depots
- ✓ Refueling Stations

AR10

Acid Replacement
Cleaner



- ✓ Brake Dust
- ✓ Deep Cleaning

LSR100X

Lime & Salts
Remover



- ✓ Unit Bodies
- ✓ Windows, etc

HBC

Hand Bash
Cleaner



- ✓ Safe Formulation
- ✓ Ingrained Dirt

NEUTRAGARD

pH Neutral
Interior Cleaner



- ✓ Grease, Oils, Dirt
- ✓ For Floors and Walls



TECHNICAL SUPPORT



15+ Technical Engineers

Skilled & trained to address your operational needs with precision



Reliability & Optimized Performance

Tailored Service Contracts

Service agreements designed to suit your equipment's specific requirements.

Proactive Monitoring & Health Checks

Regular assessments (Health Checks) to keep your machinery in top condition.

Thorough Maintenance & Deep Cleaning

We ensure your equipment operates efficiently through meticulous care.

Precision & Care

Every aspect of our service is delivered with a focus on accuracy and attention to detail.

Maximize Efficiency & Longevity

Our services enhance equipment performance and extend its operational lifespan.

Cost-Efficient Management

We help you optimize operations while controlling costs.



Annual Maintenance Contract (AMC)

Extended Machine Life

Request our **Annual Maintenance Contracts (AMC)** for Nordson and Domino machines to ensure the **extended life of your equipment**.

Preventive Maintenance

Scheduled services **reduce downtime** and keep your **production line running smoothly**.

Corrective Maintenance

Enjoy peace of mind with **breakdown support** covered as part of our AMC, ensuring **rapid response** to any unexpected issues.



OUR LOCATIONS



MIDDLE EAST

UAE
Saudi Arabia
Oman
Qatar
Kuwait
Jordan
Yemen
Bahrain

WEST AFRICA

Nigeria
Ivory Coast
Ghana
Senegal
Mali
Cameroon
Guinea
Sierra Leone
Liberia
Benin
Togo
Burkina Faso
Congo

20+ COUNTRIES
COVERED ACROSS MIDDLE EAST & WEST AFRICA



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