

# Sustainability

We all have the **ability** to help ensure a better tomorrow for our planet and ourselves by reducing, recycling, and reusing. Here are just some of the **green** initiatives Diagraph has taken to create a more eco-friendly environment inside our own facilities **and** within the **products** we engineer, manufacture and distribute.

- **material/waste reduction**
- **chemical hazard reduction**
- **energy savings**
- **water conservation**

At Diagraph, we're focused on how our processes and products benefit the environment **and** how they benefit **YOU**, our customers.

## Reduce, Recycle, Reuse...

- single-stream waste recycling of paper & plastic
- recycling aluminum, copper, steel, stainless steel
- recycling wiring, dry cell batteries, fluorescent lights
- recycling PC boards & wood pallets
- turning hazardous waste into fuel blending
- using 100% green cleaning supplies
- janitorial team trained in recycling methods
- irrigation control system reduces water consumption
- reducing corrugated & packing materials with reusable shipping totes
- improving hazardous waste status from Large to Small Quantity Generator



**It's What We Do.**



# All-Electric Labelers with Built-In Sustainability...



## E-Series All-Electric Labelers

- **50-80% better power efficiency vs. comparable pneumatic systems**
- *\$500 annual cost savings per system vs. compressor-run pneumatic systems*

## RoHS Compliant Products

- **Reduction or elimination of hazardous materials**
- *Safer product handling and disposal*

## Elimination of Lithium or NiHM Batteries for Time Clock Backup

- **Using SuperCap eliminates dry cell battery disposal and waste**
- *Achieves the same functionality with no disposal headaches*

## Manuals on USB Memory Stick

- **Eliminates paper waste and provides reusable memory for other system features**
- *Fast, electronic data sharing in a small package*

## Product TUV Testing Meets CE and UL Standards

- **RF-friendly systems reduce potential RF and EMI energy pollution**
- *Eliminates electrical interference with other plant equipment*

## Shipped Fully Assembled

- **Uses less individual packing, no foams or "peanuts"**
- *Delivered as tested, ready to run with no start-up delays*

## Reusable Tote Containers

- **No packaging waste**
- *Reusable totes provide optimal component protection*
- *Elimination of assembly labor translates into cost savings*

## JIT Manufacturing

- **Components produced only as needed to avoid high stocking levels and extra storage space requirements**
- *Reduced lead times, prices, and product obsolescence*

## Electronic Work Instructions

- **No paper waste or confusion for build changes—changes are immediate**
- *System builds always current with all incremental improvements*
- *Build quality more easily tracked and monitored*

**Notes**

- *green bullets represent environmental benefits*
- *black bullets represent customer benefits*



# Industrial Ink Jet Printers with Built-In Sustainability...

## RoHS Compliant Products

- **Reduction or elimination of hazardous materials**
- *Safer product handling and disposal*

## Conformal Coatings on PCBs

- **Environmental protection**
- *Extended product life*

## Sealed Integrated Valve Printhead

- **Environmental protection**
- *Extended product life*

## Repairable Impulse Jet Printheads

- **Nothing to throw away, nothing wasted**
- *Diagraph remanufacture program salvages printheads and extends product life*

## Metal/Aluminum Enclosures and Components

- **No throw away waste**
- *Metal products can be repaired, aluminum products can be recycled*

## Thermal Jet Rechargeable Battery

- **Eliminates battery disposal and waste**
- *Achieves same functionality with no replacement/disposal of batteries*

## Software for High Resolution Printing

- **Draft mode reduces ink usage by 50%**
- *Reduced ink consumption translates into customer cost savings*

## No-VOC Option for Valve Jet Non-Porous Inks

- **Emits no volatile organic compounds into the environment**
- *Maintains good air quality for customers' workers*

## Shipped in Recyclable Materials

- **Less negative impact on the environment**
- *Less waste for customers*

## High-Level ESD Testing to Exceed 24kv

- **Mimimizes waste with fewer failures**
- *Improves product reliability and extends product life*

## IJ3000 Preventive Maintenance Timer

- **Less waste on parts, consumables, and replacement items**
- *Equipment operates at optimum efficiency with extended service life*

## Manuals on CD

- **Eliminates paper waste**
- *Fast, electronic data sharing in a small package*



## LINX<sup>®</sup> Continuous Ink Jet Printers with Built-In Sustainability...



### Precise Control of Ink Viscosity via Temperature and Time of Flight

- **Less solvent usage, less impact on environment**
- *Reduced consumption saves money and fluid replenishing labor*

### Mistake-Proof Ink System Design

- **Half-liter ink and solvent bottles pour completely into printer to eliminate waste**
- *Prevents pouring ink and solvent in the wrong reservoir*

### Environmentally-Friendly Fluid Options

- **All LINX inks and solvents are non-toxic to the environment. Low VOC fluids are available.**
- *Provides safer work environment, free from toxic methanol*

### RoHS/CONEG Reduction of Toxics in Packaging Compliance

- **Reduction or elimination of hazardous materials**
- *Safer product handling and disposal*

### Fluids Packaged in LDPE Bottles

- **Recyclable plastic containers reduce environmental impact**
- *500 mL fluid bottles are simple to use and color-coded to prevent mistakes*

### Full-Flush™ Auto System Thoroughly Cleans & Dries Printhead at Shutdown

- **Less solvent usage translates into fewer plastic bottles and less waste**
- *Reliable startups, cleaning interval reduced from weekly to monthly*

### Hermetically-Sealed Printhead

- **No moving parts to replace means less waste disposed into environment**
- *No manual adjustments to make, less downtime and maintenance*

### No Shop Air Required

- **Elimination of compressed air reduces energy consumption and CO2 emissions**
- *Cuts utility costs, reduces contaminants, and makes equipment portable*



## LINX<sup>®</sup> Laser Coders with Built-In Sustainability...



### No Factory Air, No Water Cooling, No Consumables

- **Saves energy and utility costs while reducing waste**
- *Saves money—no fluids to purchase, inventory or replenish*



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