

DURAjet™

SUB-SURFACE PRINTABLE ALUMINUM



DuraJet™: Sub-Surface Color Printing in Aluminum

DuraJet is a revolutionary imaging system that allows you to digitally create durable, full-color images on anodized aluminum and subsequently seal the image inside the metal, making it virtually impervious to abrasion, chemicals, moisture, humidity and salt spray.

Product Attributes:

- Full color ink jet printing with the modern, high-quality look of real aluminum
- Impervious to abrasion, chemicals, moisture, humidity and paint
- Digital process: short run and variable data friendly
- Easy to use and reliable: digital process requires no screens
- Lower acquisition costs than comparable systems

Product Technology:

DuraJet open-pored aluminum is engineered to absorb certain inkjet inks. After printing, DuraJet is “sealed,” protecting the image inside the metal itself. Unlike other open-pored aluminum, DuraJet is extremely stable and will not seal unless plates are put through the sealing process. That means that DuraJet has a long shelf life and will print beautifully the first time, every time.

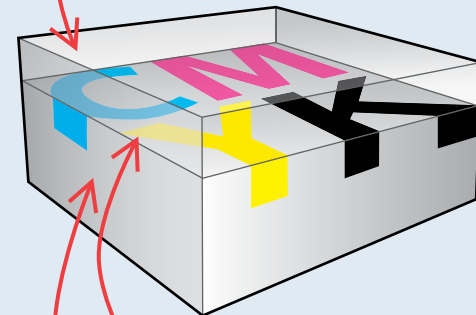
Applications

- **Barcode** – print durable variable data plates with full color
- **Signage/Wayfinding** – full color, high-value metal signage that is durable and cleanable
- **Plaque & Award** – company awards, ISO-certification plaques, patent reproductions
- **Labels & Panels** – create full-color, durable metal labels and panels
- **Spot Color** – add color to Metalphoto®

DuraJet™ Technology:

Anodized Layer

The glass-clear, sapphire-hard anodized layer resists chemicals, paint, abrasion and dirt.



Sealed Image

The full-color ink jet image is absorbed into the DuraJet pores.

Aluminum Layer

The rigid aluminum base won't peel, crack or delaminate.

DuraJet Durability Characteristics

Application	Test Condition	Effect
Outdoor Exposure	500 hrs of accelerated UV/weather with Q-Sun XE-3/HS*	Slight dulling of image*
Abrasion Exposure	7,000 cycles on a Taber Abraser, CS17 with 1Kg wheel load	Slight dulling of surface
Marine Exposure	5% at 95°F for 700hrs of salt fog exposure as per ASTM B117	No Effect
Corrosive/Chemical Exposure	24 hr immersion in MIL-STD-810G fluids	No Effect

* - Test Ongoing

Horizons ISG does not warrant performance of its materials in any environment.

Comparison to Other Print Methods

Excellent: ● Good: ● Poor: ●

	DuraJet Ink Jet	UV Ink Jet	Screen Printing
Digital Advantage (variable data, short runs, full color)	●	●	●
Total Cost to Operate (acquisition, material, setup, etc.)	●	●	●
Total Production Speed (minutes per square foot, incl. set ups)	●	●	●
Image Performance: Weather/UV/Heat	●	●	●
Image Performance: Abrasion Resistance	●	●	●
Image Performance: Chemical Resistance	●	●	●
Media Compatibility	●	●	●
Fabricate-able & Clean-able	●	●	●

DuraJet is engineered to give your business an edge by creating higher quality, higher value products at lower acquisition and usage costs than UV-ink jet and screen printing on metal systems. With DuraJet you can profitably service short-run, full-color jobs previously inaccessible due to screen reclamation and set-up costs.

Material & Equipment Pricing

DuraJet works with most dye-based solvent ink jet printers.

Horizons ISG recommends DirectJet™ printers for verified compatibility with DuraJet.

	Part #	Description	Price
DuraJet Open	5980	0.020" thick, 10" x 12" Satin Finish (10 sheets/box)	\$119
DuraJet Open	5981	0.020" thick, 10" x 12" Matte Finish (10 sheets/box)	\$119
DuraJet Pored	5982	0.020" thick, 12" x 20" Satin Finish (5 sheets/box)	\$119
DuraJet Aluminum	5983	0.020" thick, 12" x 20" Matte Finish (5 sheets/box)	\$119
DuraJet Sealing System	7892	1220 Sealing Tank Unit (8 sht capacity, 7.5 gal vol)	\$2,034
	6985	Stainless Steel Rods	\$7/ea
	6970	Stainless Steel Clips	\$5/ea
	7571	No Nickel Sealing Concentrate (1 gal. container)*	\$44
Printer & Inks	-	Direct Jet 1324 Direct Jet 1314 Direct Jet 1309 Direct Jet 2-17	Contact Horizons ISG for Pricing

*1 gallon seals up to 300 12x20 plates when added to 24 gallons of de-ionized or distilled water

DuraJet Print Profiles (provided upon sale) allow throughput between 10-30 minutes for a 12x20 sheet (depending upon resolution/quality).

See DuraJet Processing Guide for more information on Print Profiles.

How To Order

Call 1-800-482-7758 or visit our website at HorizonsISG.com.

DURAjet
SUB-SURFACE PRINTABLE ALUMINUM

18531 South Miles Road – Cleveland, OH 44128

1-800-482-7758 – Fax 216-475-6507

www.HorizonsISG.com

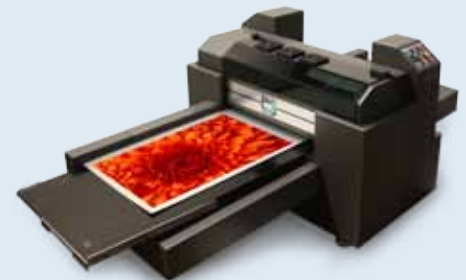
sales@HorizonsISG.com

DuraJet is a registered trademark of Horizons Inc.
Horizons ISG does not warrant performance of its materials in any environment.

The DuraJet Process



1. Design



2. Print



3. Seal



Horizons Incorporated

ISG Imaging Systems Group

Direct Color Systems