

# DURAjet<sup>®</sup>

SUB-SURFACE PRINTABLE ALUMINUM



## DuraJet<sup>®</sup> - Sub-Surface Color Printing in Aluminum.

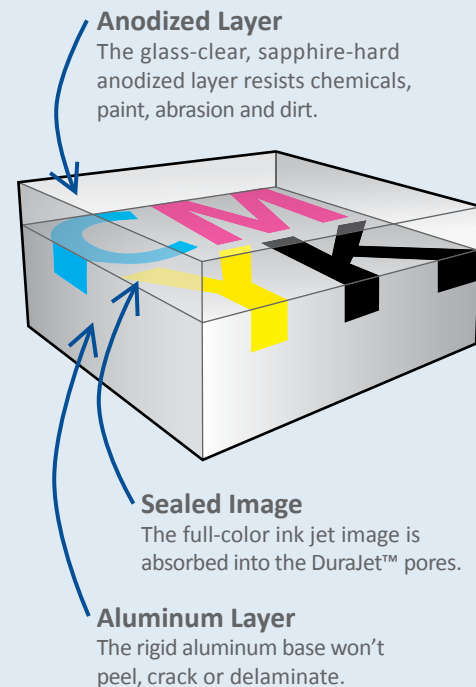
The DuraJet imaging system allows you to create durable, full-color images on anodized aluminum and subsequently seal the image inside the metal, making it virtually impervious to abrasion, chemicals, moisture, humidity and salt spray.

DuraJet open-pored aluminum is engineered to absorb certain ink jet 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.

### Product Benefits:

- Durable:** chemical resistant, cleanable, abrasion resistant and graffiti proof (DuraJet is certified to MIL-STD A-A-50271)
- Beautiful:** high-resolution, full CMYK color printing with the modern, high-quality look of anodized aluminum
- Economical:** lower acquisition and usage cost than comparable systems
- Digital:** digital process is designed for short production runs, customized prototypes and variable data
- Convenient:** on-site production give you control over where and when items are produced

## DuraJet Technology:

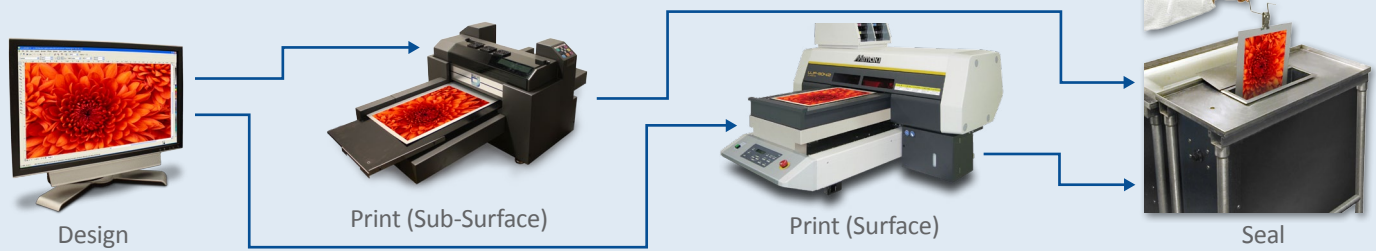


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## The DuraJet System

The DuraJet system includes DuraJet open-pored anodized aluminum, an approved ink jet printer and a sealing tank. After DuraJet is printed, it must be sealed in an approved sealing tank before fabrication.



DuraJet open-pored anodized aluminum can be printed into with dye/solvent ink jet printers (recommended) or printed upon with UV-cured ink jet printers. For verified compatibility, Horizons ISG recommends only the following printers for use with DuraJet:

- **For Sub-Surface Printing Into DuraJet:** DirectJet 1324 Dye-Solvent Ink Jet Printer
- **For Surface Printing Onto DuraJet:** Mimaki UJF-3042 | Rastek from EFI

## Durability Characteristics

DuraJet is certified to MIL-STD A-A-50271. DuraJet has an estimated outdoor life of 1-3 years, depending upon environmental conditions. Horizons ISG does not warrant performance of its materials in any environment. Testing conducted on sub-surface printed DuraJet.

Application	Test Condition	Effect
Outdoor Exposure	2,000 hrs of accelerated UV/weather with Q-Sun XE-3/HS* (1-3 years)	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
High-Temperature Exposure	One hour in 500°F air over	Slight dulling of image

## Comparison to Screen Printing

DuraJet is engineered to give your business more flexibility than screen printing on metal. As a digital, direct to substrate process, DuraJet makes one-off prototypes, short production runs and customized information easy and profitable by eliminating screen set-up costs.

	DuraJet™	Screen Printing
Variable Data Friendly?	✓	✗
Short Run & Prototype Friendly?	✓	✗
Full CMYK Color?	✓	✗
No Screen Changes?	✓	✗

## Material & Equipment

	Part #	Description	Price
DuraJet Open Pored Aluminum	5980	0.020" thick, 10" x 12" Satin Finish (10 sheets/box)	\$119
	5981	0.020" thick, 10" x 12" Matte Finish (10 sheets/box)	\$119
	5982	0.020" thick, 12" x 20" Satin Finish (5 sheets/box)	\$119
	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)	Contact Horizons ISG for Pricing
	6985	Stainless Steel Rods	
	6970	Stainless Steel Clips	
	7571	No Nickel Sealing Concentrate (1 gal. container)*	
Printers & Inks	-	Direct Jet 1324 Direct Jet 1314	
	-	Direct Jet 1309 Direct Jet 2-17	

\* One gallon seals up to 300 12x20 plates when added to 24 gallons of de-ionized or distilled water. Above sheet sizes are printable area – actual sheets are ½ an inch larger on each dimension (height & width). DuraJet Print Profiles (provided upon sale) allow throughput between 10-30 minutes for a 12x20 sheet. See the DuraJet Processing Guide for more info. Prices subject to change without notice.

## How To Order

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



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