



Dameron's "Express Wax" System Patterns for modeling and rapid proto-type casting production.

Due to the increasing call for the investment cast products we produce to be delivered quicker and the need for reduce tooling costs, Dameron Alloy Foundries has purchased a ThermoJet® Solid Object Printer capable of producing one, two or even small volume Rapid Proto-Type wax patterns for a variety of end uses. This new capability will give our customers the ability to move their new product from concept to market more quickly than ever before.



The system is based on Multi-Jet Modeling (MJM) technology and is in the Thermoplastic material class. Manufactured by 3D Systems, the ThermoJet machine will provide a superior opportunity for communicating design ideas between our customers and Dameron. The "Dameron Express Wax" process can be used to produce real models for a variety of uses including, but not limited to, presentations, design validation and approval, improving product design, reduction (possible elimination) of tooling costs, reduction in R & D development costs and production of wax patterns for casting manufacture.

If your need is to see a physical model of the design you are developing, this process will be of invaluable service to you. By simply transferring your STL modeling files electronically to Dameron, within a few days (possibly even overnight), a solid wax, three-dimensional model is express mailed to you. Or, the Express Wax pattern is placed into Dameron's investment casting process and within a very short period of time, you have a casting that can be machined, assembled or placed directly into service. Either way, you achieve your requirement very quickly and with extremely low upfront costs.

Dameron has worked with several Rapid Prototyping materials for many years either supplied directly by our customers, or purchased from outside sources. Some non-wax patterns (SLA) have produced outstanding results, but, due to the material they are manufactured in, require additional time and effort to insure our customer's requirements are met. Now, our Express Wax process will continue to provide this valuable service to our customers very inexpensively and with a pattern materi-

al nearly matching that of traditional injected wax patterns.

Imagine this scenario, you have a component that you feel will improve the performance of your product. In order to prove your design, you must first produce a sample casting. However, the cost of the tooling could be \$1,000, \$5,000 or even \$10,000. Solution: Have Dameron produce an "Express Wax" pattern for a fraction of

the tool cost and you have either the wax pattern model or the casting a short time later.

Or, another possibility is that you may have a new product line that you want to produce, process, assemble and test run the various components (prior to production design finalization) and therefore only need one or two pieces of each component for a laboratory test cycle. Once again, the price of the



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Dameron Cast Neck Ring Inserts and Baffle Inserts

Hundreds of thousands of the Dameron cast Neck Ring Inserts (NRIs) and Baffle Inserts (BIs) have been produced by both Dameron foundry operations over the last several years.

From the basic design of a simple NRI to the sophistication of the cored out BIs, Dameron has led the way in providing glass container customers around the world with HR Alloy inserts that extend the life of mould equipment, improve container quality and as a result, reduce overall mould costs.

In addition to the numerous designs that Dameron has tooled and the ability to produce the castings extremely quick, the company has developed an untraditional way of producing these components that allows these cast inserts to be offered at very low prices.

The photo illustrates the complexity of the designs that can be provided to the glass industry in any of the original Dameron HR Alloy designations.

Inventorying of these components is available provided the volumes adequately support this process. Inventories can either be located at the foundry or at the customer location.



Join the many customers that are currently using the Dameron cast Neck Ring and Baffle Insert products made from original HR Alloy materials and begin to experience the advantages that these designs and alloys offer. ▲



Dameron Quality Statement

(Condensed & Reprinted from Dameron's QA Manual)

Much has changed for Dameron over the past several years. New employees, new equipment, new foundry operations; both domestically and in Asia. But one thing has not changed: Our commitment to a quality product for our customers.

Dameron's Quality Statement:

Dameron Alloy Foundries, Inc. and DAFCO, Inc. are dedicated to the production of Nickel-base, Cobalt-base, Low-Alloy and Stainless Steel investment castings of consistent high quality for the commercial industry.

Dameron and DAFCO are names synonymous with quality. This is achieved by systematic control of all variables involved in the casting production process—from the raw materials through all the manufacturing operations, and inspection of the finished product.

We believe that it is our primary responsibility to deliver a value-added quality product on time. Our concept of value to the customer involves assisting with the selection of materials for the application, helping with the design of a new part, maintaining a technological edge, and delivering a defect-free product within a promised time frame. Dameron & DAFCO are committed to further enhancing the quality of its products by making major investment in advanced manufacturing technology to achieve this.

Company policy is directed toward the production of castings that meet every customer requirement. Quality Systems employed at Dameron & DAFCO are based upon the concept of control at every stage of manufacture of the variables involved in our production process. It commences with the control of raw materials and includes Customer Service and Engineering. Such control of variables at separate stages enables quality to be built into the product and identifies individual responsibilities.

The Quality Assurance Manual places the approach to quality on a formal basis and it documents all stages of the application of the requirement of ISO-9001: 2000. This statement is the mandate for the application of the principles listed in this manual. It is the commitment of management that its primary goals shall include:

- 1) Obligation To Meet Customer Requirements**
- 2) Work Together With Customer And Employee**
- 3) Prevent Loss And Be Responsible**
- 4) Obtain Financial Strength**

It is the declared policy of the organization that all employees shall be committed to the maintenance of quality and that they are trained in the necessary practices to achieve this. ▲

Meet Dameron Alloy Foundries Pouring Floor Technicians

Considered to be one of the most difficult positions in the foundry to have, the melting and pouring crews at Dameron-Compton and DAFCO/TRUE-CAST-Louisville make the best of their difficult situations.

As if the handling of preheated investment molds (ambient temperatures in the area of 1800° F) and the staging of large air set sand molds (some weighing near 500 lbs.) isn't enough, add to it the fact that Dameron's pouring floor technicians work with molten metal that can reach temperatures of 3000° F and you know you are dealing with a difficult position.

How do they handle these extremely difficult and obviously challenging situations? This is done by having optimum training and following excellent safety and procedure controls. Most importantly, each employee is dedicated to their specific work assignment and carries it out to the highest level of integrity.

Each heat of metal must be prepared properly with the correct chemistry, staged for processing, melted and poured to strict pouring techniques and standards to insure that the customer's alloy specification requirements are met...each time; every time. Working in these challenging conditions with a successful pour rate is a testament to their commitment to doing their part in making Dameron castings the best in the industry.

The dedicated pouring floor employees shown in these photos are an extremely important asset to the company. "Thank you" to each and every employee for a job well done. 🙏



Dameron photo by Mario Estupinian

Dameron Pouring Technicians. L to R... Gregorio Lopez, Jose Alvarado, Clemente Ruvalcaba, Adan Calderon, Jesus Quinones, Gabriel Fernandez (Foreperson) and Stefan Derrick (Supervisor).



Dameron photo by Carlos Chavez

Dafco/Truecast Pouring Technicians. L to R... Martin Monico, Julio Lopez, Eliseo Encarnacion, Juan Encarnacion, Freddy Encarnacion, Juan Sanchez and Dave Franco (Supervisor).



**Where Customer
Design and Foundry
Experience Converge
to Achieve
Outstanding Results.**



DAMERON
YOUR PARTNER IN QUALITY,
PRODUCTIVITY AND PROFITABILITY

We Fill Your Needs

DAMERON ANNOUNCEMENTS

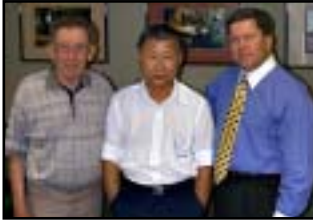
Births to Dameron Employees

Johnathan Jared Vazquez, Born to Maria and Jorge Vazquez. Birthday: 5/29/03 - 7 lbs., 13 oz., 20"

Jarey Lopez, Born to Laura Murillo and Rene Lopez. Birthday: 6/24/03 - 8 lbs., 1 oz., 20 1/2"

Jayline Encarnacion, Born to Gina and Eliseo Encarnacion. Birthday: 7/15/03 - 6 lbs., 11 oz., 19"

Specials



Paul Boon receiving 30 year service award.

Paul Boon, 30 years
August 30, 2003

Paul has been a loyal and dedicated Dameron employee. The company is extremely grateful for his service, loyalty, dedication, performance and for the "model employee" example he sets for his co-workers. He hopes to remain a Dameron employee for another 30 years, provided his wife will allow it.



Victor Pimentel, 25 years,
April 24, 2003

Victor (center) receiving service award from Jeff Milucky (l) and John Dameron



Maria Solorzano
25 years
June 16, 2003

Frank Palafox
25 years
June 10, 2003

(L to R) Jack Dameron; Maria Solorzano, Frank Palafox and Bill Smith- (receiving service awards); and John Dameron

Bill Smith
25 years
June 8, 2003

Mike Archuleta - Married on 6/28/03 to Carol.

Corrections

In the Spring 2003 issue, it was erroneously reported that Faaleaga Toalepai had retired. The photo actually showed him receiving his 25th year service award. Apologies to Faaleaga.

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upfront tooling cost is just too expensive for the "introductory project". Solution: Your already existing electronic model file can be transferred to Dameron and within a few days, **Express Wax** patterns are produced and followed by Dameron's short manufacturing cycle. You will have your new cast product samples available and at a fraction of the cost. Further, should there be any modifications needed and new patterns or castings produced, a simple e-drawing change is made to any design and the **Express Wax** process can be repeated as many times as needed.

Still yet another possible scenario could be that you only require a few parts to fill your entire requirement. To construct an investment-casting tool or to have a local machine shop set up for a small proto-type run of your design cut from expensive stock material would be cost prohibitive. Solution: Allow Dameron's **Express Wax** process produce patterns utilizing your electronic engineering files, process them through our system and produce castings for you within a few weeks. Many investment castings can be used as cast or with minimal machining. You will once again fulfill your requirements with just a fraction of the cost.

There are some size limitations to the process, however, we working on a variety of ways to produce larger designs. Like all Dameron processes, this new addition will continue to be enhanced and upgraded to meet our growing customer demands.

Our organization is committed to producing the best possible cast product we can. When our customers excellent designs meet with our ability to produce a quality product for them, the results are extraordinary. Allow Dameron to put it's **Express Wax** process to work for you in any imaginable way we can to meet your need. It would be our pleasure to work with you, utilizing this new technology with the goal of reducing your costs. We "Will" Fill Your Needs!

Contact any of our sales or customer service representatives via the numbers provided below, or at our recently updated web site... www.dameron.net. ▲



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