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NETCASTER

ICI EXPO 2008, AUTUMN EDITION

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**Buyers/Designers
of metal castings**

**buyCASTINGS cuts
costs and adds value**

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Foundries

**Reduce cost, access
new markets**

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Suppliers

**to foundries
buyCASTINGS
expands markets**

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NEW bC Facility



buyCASTINGS.com, Inc. On the List of Inc.500 Fastest-Growing Private Companies in the US **According to the Inc. Magazine, Sept. 2008 Inc.500 Issue**

Inc. Magazine recently recognized buyCASTINGS as number 240 on the 2008 Inc.500 list. The Inc.500 list celebrates the fastest-growing private companies in America. To establish the rankings, Inc. Magazine measures revenue growth from 2004 through 2007. Companies must be based in the U.S. and have had annual revenues of at least \$200,000 in 2004 and \$2 million in 2007. For more than 27 years, the Inc.5000 has served as a benchmark for the most innovative, dynamic, and successful companies in the nation. As an Inc.5000 honoree, buyCASTINGS is honored to now be a member of one of the most influential business clubs in America.

Other Inc.5000 alumni include Bill Gates of Microsoft, Larry Ellison of Oracle, and many more. This achievement puts buyCASTINGS among an elite group that over the years has included Microsoft, Timberland, Cold Stone Creamery, Go Daddy, Intuit, Jamba Juice, Oracle, and Under Armour. Many of today's most successful U.S. companies received their first public recognition when they appeared on the Inc. list. buyCASTINGS is honored to be featured by Inc. Magazine and looks to continue its business growth. **buyCASTINGS ranked No. 2 in Ohio and No. 32 in the Top 100 Business Services Companies.**

buyCASTINGS.com, Inc. has experienced rapid growth over the last 4 years, filling a niche by doing the right thing for buyers in the metal castings market – by bringing them choice, convenience and competitive costs. buyCASTINGS' business model uses castings experts and an online marketplace that matches buyers for metal castings with foundries to fulfill their orders. Despite pressures on the economy, buyCASTINGS has expanded its client base and sales numbers by focusing on providing an effective marketplace for castings and by providing technical casting solutions to demanding customer applications. **"We are constantly reviewing our business practices and finding ways to improve our services. The goal is to constantly increase our value to our clients", reaffirms Neil Chaudhry, COO of buyCASTINGS.** While most of buyCASTINGS growth has been organic, it has also started to look for strategic acquisitions and teaming to fuel continued revenue growth.



"In addition to seeing growth in our casting sales revenues, we are also seeing the returns on other strategic initiatives and investments, such as technology commercialization and government services" said Bob Dzugan, President, buyCASTINGS.

What's Wrong with Free Market Capitalism

By Neil Chaudhry

buyCASTINGS made the Inc. 500's Fastest Growing Companies List this year (according to the Inc. Magazine, September 2008 issue.) We also got some local press recently for winning some awards and for the growth in our business since the dot com bust.

However, what do these awards, good PR, and recognition really mean for a small business or any business for that matter?

While the marketing folks will tell you that it is critical to a business to get media attention, free PR, etc. **what is essential to a business is for the management to focus on doing the right things to grow the business.** At buyCASTINGS, we did not plan for the dot com crash or the 9-11 or the recession that lasted three years after we started in 2000. However, those were the 'cards dealt to us' so we had no choice but to survive. Failure was NOT an option!

So, we have grown revenues over the years NOT because we wanted free PR or recognition or to make the list of fastest growing companies in the country but because we have evolved and fine tuned our business model to focus on doing the right thing for the customer in order to grow our business. Planting seeds, going after lots of opportunities, and working with many customers in various industries and applications — all key to diversify and improve your chances of success.

What does the buyCASTINGS experience have to do with the topic of capitalism and this country and what's going on today?

WE ARE IN THE MIDDLE OF THE BIGGEST TRANSFER OF WEALTH FROM ONE NATION TO ANOTHER IN THE HISTORY OF MANKIND! With the tripling and quadrupling of oil prices in the past year and not much reduction in our consumption of oil, **we are transferring hundreds of billions of dollars from USA to the Middle East oil countries.** While our infrastructure is deteriorating — roads, bridges, power grids getting old, Dubai, UAE is building the biggest buildings, malls, even man made islands.

We have also transferred hundreds of billions of dollars from USA to the Far East nations during the past two decades because we want to buy cheap consumer goods — from toys to appliances to furniture and just about everything else we consume.

All this has happened because our system encourages (actually it makes it necessary) for our corporations to go to where ever we can find the cheapest products, supplies, and commodities. Whether it's China for cheap toys, Japan for the best cars, India for low cost IT workers or Saudi Arabia for the cheap oil...

All this is done because **the goal is to maximize shareholder value and in a Free Market Capital system, the corporations have to go where their costs are lowest** to maximize profits...We DEPEND ON IT to compete, to survive, and to grow. **Hence the biggest transfer of wealth! To the producing nations, like China and Saudi Arabia from the consuming nation, USA.**

How do we break out of this?

To be continued in the next issue of the Netcaster.

TWO NEW ADDITIONS TO THE buyCASTINGS TEAM

"Welcome aboard and we look forward to continued growth!!"

Mr. Bart McMannon joined the buyCASTINGS.com team this September to support the effort in our facilities expansion and opening of the new manufacturing plant for out FOPAT and TacFab projects. Bart will manage the facility and production logistics for various government and commercial contracts. Over the past couple of years Bart was the President of a product development company. Prior to that, he spent over a decade working at the Edison Materials Technology Center (EMTEC) in various roles including: Director of Region IV's Small Business Development Center, Operations Manager, and Quality Manager. Bart has experience in Product Development, Marketing, Finance, and Management. During his tenure at EMTEC, Bart acquired a Certified Business Advisor (CBA) Degree where he scored with honors.



Ms. Toni DiGeronimo recently joined buyCASTINGS.com as Customer Relations Manager. Toni will be in charge of business expansion through E-commerce and investment casting sales using FOPAT technology. She earned her B.S. in Metallurgical Engineering from The Ohio State University and has worked in various capacities in manufacturing operations. While attending school she was employed at Funk



Finecast investment casting foundry in their Quality Dept. and worked as an R&D Engineer for Abrasive Technologies, Inc. in Lewis Center, OH. Upon graduation she accepted an offer to work as Development Engineer for Precision Castparts Corp., in their SSBO facility in Clackamas, OR. In her role as metallurgist and gating engineer for the Pratt & Whitney team, she was responsible for developing new superalloy investment castings for the F-22 Raptor engine and reducing rework/scrap on critical production programs. Major customers included P&W, MTU, Snecma, Volvo, Rolls Royce, Fiat, and Fabrique Nationale. Toni also acquired experience improving single crystal investment casting processes for Allison Gas Turbine (now Rolls Royce). After returning to Columbus, OH, Toni worked for the Materials Science & Engineering Dept. at OSU where she learned to use casting simulation software and incorporated it into the undergraduate foundry curriculum. In the ensuing years, she transitioned into sales and management roles where she enjoyed solving problems for customers and assisted them in their efforts to improve processes and profitability. Toni was an FEF Scholar, AFS student member, Treasurer for the Portland ASM Chapter, and looks forward to becoming an active member in professional associations in the Southwest Ohio region this fall.

Why software from Finite Solutions?

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- **Easiest to Use**

- **Fastest Results**

- **Special Features for Investment Casting**

- **AUTOMATIC Optimization**

- **Lowest Cost to Buy and Use**

- **Flexible Payment Plans Available**

- **Multiple Language Versions**

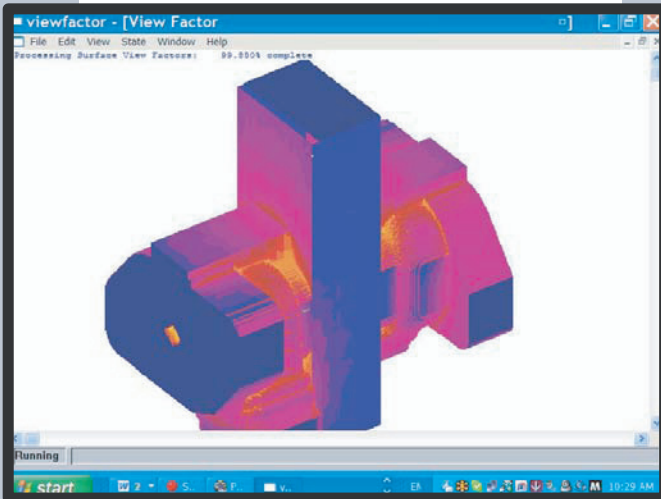
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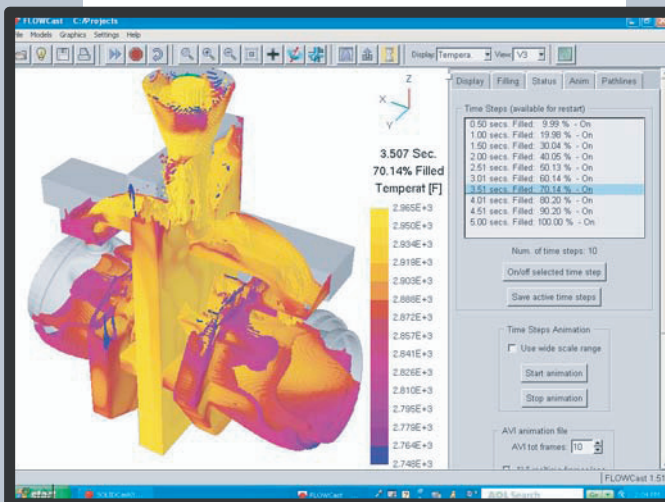


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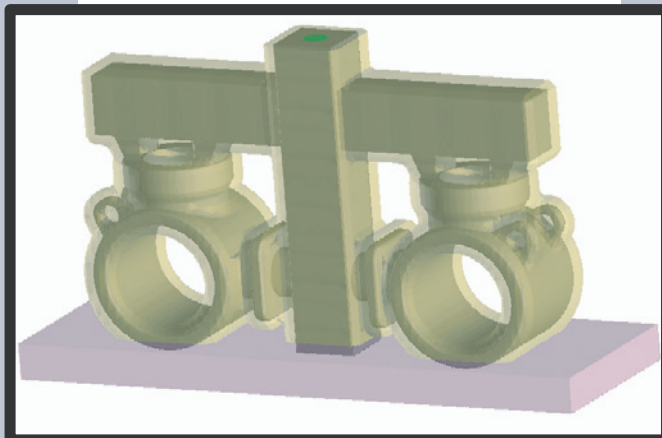
Casting simulation for the working foundry



Radiation View Factor Analysis



CFD-Based Filling Analysis



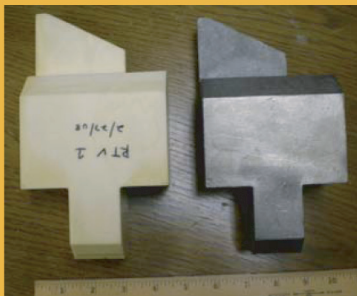
Automatic Shell Creation

FOPAT

Investment Casting Patterns

Lower Tooling Costs and Outsource Your Pattern Production!

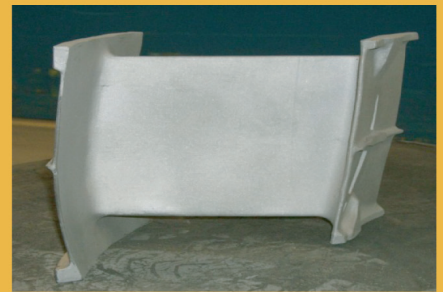
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Relatively heavy part with thick sections in FOPAT and cast from FOPAT



FOPAT Pattern of Aerospace Strut Segment with Ceramic Cores



Aerospace Strut Segment Cast using the FOPAT Technology

Advantages of using FOPAT over wax patterns

Out-source your wax jobs: thick sections, heavy parts, chills, thin walled parts – Easy with FOPAT

Minimal pattern shrinkage gives stable pattern

Durable patterns for thin sections

Shippable patterns – good handling and stability

Potentially quicker and lower cost retooling

Can withstand temperatures up to 200 degrees F

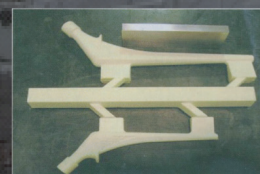
Lower cost of patterns
Lower cost of tooling

Cost effective for a given pattern

No shell cracking due to little or no pattern expansion

No chills in waxes
Sell more castings, less scrap

Breakthrough Technology for Casting Patterns





EPS "A QUALITY PRODUCT AT A FAIR PRICE"

Lost Wax Process Investment Castings Saves time, Improve processes & product and Increase profits

EPS Industries, Inc.

At **EPS** we provide an extensive list of both ferrous and non-ferrous options for your investment casting needs. Listed below are a few of the more common alloys that we pour regularly.

Stainless Steel

Tool Steel

Carbon Steel

Non-Ferrous

Cobalt Base High Temperature Plus many other air melt alloys



Above are a few examples of products we cast using the lost wax process

Contact EPS Industries about our Lost Wax Process Casting

Address: 585 Second St. Ferrysburg, MI 49409

Phone: 616-844-9220; **Fax:** 616-844-9030

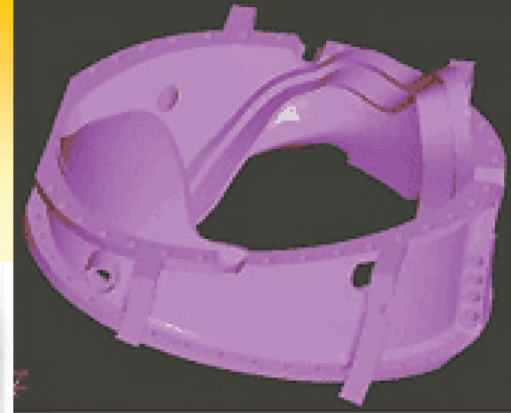
Email: sales@epsind.com

Your One Stop Source For All Metal Castings

buyCASTINGS.com matches requests for castings to an expansive group of qualified foundries. With over 150 years of experience in materials, metallurgy, metal castings, tooling, prototypes, foundry supplies and production of metal castings of all metals and all casting processes, buyCASTINGS.com serves customers in defense, aerospace, transportation, chemical, industrial, electronics, research and other manufacturing sectors. http://www.buycastings.com/how_to_request_casting_quote.html



ALL CASTINGS TYPES
ALL CASTING PROCESSES
RAPID PROTOTYPES
RAPID TOOLING
FOUNDRY EQUIPMENT
DESIGN/ENGINEERING

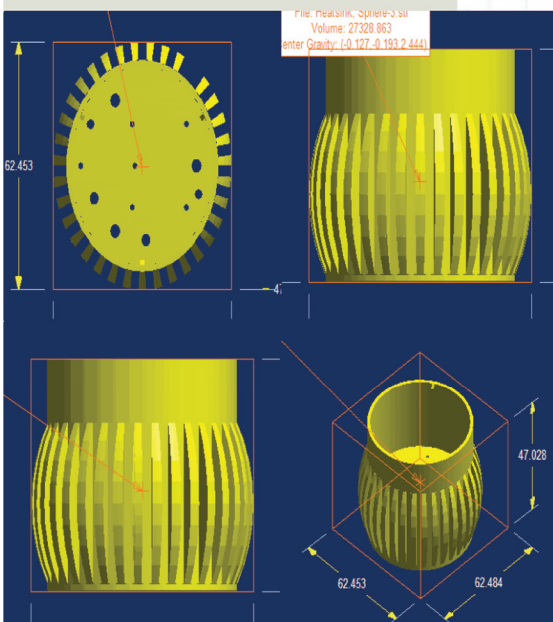


3-D Model of Coil



- Database of 600+ foundry partners to match castings
- Reduce manufacturing costs
- Casting process optimization
- Prototype metal castings
- Reduce request quote times
- Casting sourcing assistance
- Manage procurement teams
- Metal and Plastic prototypes
- Alternate material analysis
- Program management

COMPUTED TOMOGRAPHY,
REVERSE ENGINEERED
RAPID PROTOTYPED,
INVESTMENT CAST REPLICA
OF THE ORIGINAL LIBERTY
BELL



Procast, Opticast, Optistrut,
All major CAD packages

References: DOE, PPPL, General
Electric, WPAFB, P & G

Contact:

1-866-buyCAST

sales@buyCASTINGS.com

<http://www.buycastings.com/>

Dayton, Ohio



COLLABORATIVE-CONCURRENT
ENGINEERING

MEMBERS IN THE NEWS...

A common response to requests for quotations and purchase orders lately has been long lead times and greater delays. When an inquiry or order involves technical assistance, the lead times are even longer. **Delivery has become a major driver in purchasing decisions.** buyCASTINGS serves casting buyers by identifying facilities to meet the current specific needs. **As we identify opportunities for buyer and seller, buyCASTINGS President Bob Dzugan has referred to Flowserve Dayton Foundry as "a diamond in the rough."**



Flowserve has a unique combination of manufacturing and service capabilities that are ideal for the Investment Casting buyers. Flowserve routinely supplies commercial and high quality level investment castings, ASTM Severity Levels II and I quality are readily available as required. From a one-of-a-kind custom prototype part (possibly utilizing their Z-Corp "tool"-less process) to high production items, they

excel at having a seven-week delivery from receipt of pattern. Sometimes lead times are even less.

A typical surprise that casting buyers discover about Flowserve is the core competency they have regarding **engineering, radiography, metallurgical and the wide range of metals they cast** — High alloy iron, stainless grades, Ni-alloys, heat resistant, cobalt alloys, Inconels, Monels, all up to 150 pounds, Titanium and Zirconium up to 50 pounds.



One obstacle the foundry does face is that there is a perception in the industry still thinking of Flowserve as a captive facility. They have been supplying jobbing work for several years now.

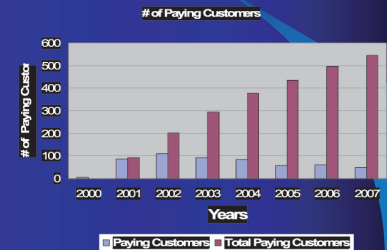
Complimenting their Investment Casting capabilities is their fine-grain-sand no-bake lines and shell capabilities. Utilizing the same core competency, they have produced castings with superior surface finish, excellent cast detail and high grade quality up to 6000 pounds, and can meet most all specifications. They have full range quality inspection, laboratory, mechanical, chemical, non-destructive, X-ray. They also offer welding, glass bead finishing, heat treatment, and acid cleaning.

The sales staff there has seen an increase in casting requests from the transportation industry, and special service metals market. Also they have seen an increase in inquiries from casting buyers where location/shipping costs are factors. The work has returned to domestic sources. **The buzz at Flowserve is that buyCASTINGS can be credited as a conduit in helping get the word out and grow their jobbing customer list.**

buyCASTINGS by the Numbers

- 862+ Foundries Worldwide
- 1950+ Buyers Worldwide
- 478+ Suppliers to Foundry Industry
- Average 100,000 "hits" per month
- 100% Focus on the Metal Casting Industry

Growing Customer Base



What customers are saying...

Thanks for the expedite! Perfect. Thanks.

Vice President, Manufacturing, Texas

"It appeared that we saved a little money at first, but with all the problems and hassles we would have been better to use buyCASTINGS."

South-eastern Retailer

"The parts you made came in on time to make the show and are gorgeous, great details."

Product Engineer in New Jersey

I think we can do a lot more with you guys.

Ohio Buyer

"We come to you because we think of you as the castings people."

Southern States US company

We look forward to a long profitable relationship.

Machine Shop in Ohio

VISIT US AT THESE UPCOMING TRADE SHOWS

October 19 - 22, 2008

Investment Casting
Institute Technical
Conference & Expo
Dallas, Texas
Booth #618

December 1 - 4, 2008

Defense Manufacturing Conf.
Orlando, Florida

December 2 - 4, 2008

PowerGen International
Orlando, Florida
Booth #4947

March 14-19, 2009

3D Systems
North America
Stereolithography
Users Group
Daytona, FL.

April 6-10, 2009

AFS CAST EXPO
Las Vegas, NV.

May 12-14, 2009

SME Rapid 2008
Schaumburg, IL.

buyCASTINGS Looks to Expand into a New Manufacturing Facility

14,000 sq ft, located in Miamisburg, Ohio (suburb of Dayton, OH)

In order to accomodate the growth in staff as well as to allow us to have our own manufacturing capability, buyCASTINGS is looking to expand from it's current location in Research Park in Kettering, Ohio to a larger manufacturing facility in Dayton area. After almost eight months of search, several candidate sites were selected for negotiations. The

Miamisburg site made one of the top spots for detail negotiations. The details are still being worked out as we look forward to our expansion.



The new facility will allow buyCASTINGS to accomodate the new program for the Army called Tactical Fabrication or the TacFab program. TacFab is a mobile foundry project which we have covered in details in newsletter 18. The Miamisburg facility will also allow buyCASTINGS to scale up production for the FOPAT technology, a new pattern material for the investment casting industry. FOPAT will require capital investment and create manufacturing jobs. FOPAT has also been covered in details in newsletter 15.

This facility will expand our corporate headquarter offices, give us manufacturing shop floor and offices, and provide for future home of our new spin off ompany called FOPAT Production Inc. The TacFab Technology Demonstration Facility will be also housed in the buyCASTINGS new building along with the technology management offices and all the equipment needed for the Army program. A quick turn around capability for parts production will be a major boost for the Army as well as for future disaster relief efforts.



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