

# EMASMAXIMS

Maximizing Runway Safety  U.S. Edition-Fall 2009

The official publication of the world's leading manufacturer of engineered material arresting systems for aircraft overrun safety.

## The EMAS Product Family Expands with Lower Strength EMASMAX<sup>®</sup>

An addition to the EMASMAX product line in 2008 was the availability of a third block strength approved for use by the FAA. The new lower block strength option allows greater flexibility to optimize EMASMAX designs where lighter weight aircraft (as low as 12,500 lbs.) are in the fleet mix.

Airports catering to business jet clientele recognized that the new, lighter EMASMAX offered a means of bringing their RSA (Runway Safety Areas) up to FAA standards while providing an optimum level of protection to both passengers and high-value asset airframes.

The Metropolitan Airports Commission (MAC) was one of the first organizations to engage discussions with Engineered Arresting Systems Corporation regarding this new technology.

The result was a contract to install two lower strength EMASMAX beds at St. Paul Downtown Airport, MN, a project that was completed in the Nov. of 2008.

In addition to pioneering the first lower-strength EMASMAX installation, the airport and contractor at St. Paul Downtown were recognized in 2009, by the engineering community for their contribution to aviation safety. (Related article appears on page 2.) -SK-



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## Corporate ID: "Zodiac" to "Zodiac Aerospace"

In December, The Zodiac Group, parent company of Engineered Arresting Systems Corp., formally announced a new corporate identity.

The approach is one that focuses on tradition (the Zodiac "Z" logo) combined with emphasis on aerospace. The group is now more prominent, balanced with each company's baseline identity. No longer "Zodiac", the name is "Zodiac Aerospace".

The new corporate identity will gradually transition into all of our company's marketing communications material.

Company email addresses now use a new naming convention: Firstname.Lastname@zodiacaerospace.com.

Please note the period between first name and last name. Old email addresses will forward until the end of 2009.

Our web site, [www.esco.zodiac.com](http://www.esco.zodiac.com), remains the same but can also be accessed via a link on the Zodiac Aerospace web site:

[www.zodiacaerospace.com](http://www.zodiacaerospace.com)

Our legal company name remains "Engineered Arresting Systems Corporation". You will also see us referred to as "ESCO-Zodiac Aerospace" (or the short-form "ESCO-ZA" in the body of extended documents).

Product names continue to be addressed by established brand names/conventions. -SK-

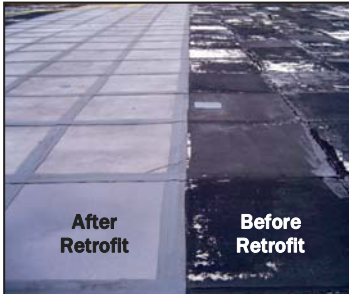
## ENGINEERED ARRESTING SYSTEMS CORP

AEROSAFETY & TECHNOLOGY  
Emergency Arresting Systems



## FAA Approves EMASMAX<sup>®</sup> Retrofits

We are pleased to announce the availability of an FAA-approved top lid retrofit option for previous generation EMAS bed owners.



A method has been developed that will allow replacement of the painted durock top boards with the pigmented, more durable plastic tops now used in the current EMASMAX<sup>®</sup> product.

For beds determined to be suitable for retrofit, this upgrade option will extend life expectancy while significantly reducing existing maintenance requirements. -KQ-



## FAA Approves EMAS Field Strength Test

On July 15, 2009, FAA Washington issued a memo announcing their approval and the availability of our portable field strength test (FST) method for EMAS block strength testing, when required.

This tool will allow airports to obtain an indication of EMAS bed condition based on compressive gradient strength (CGS) characteristic of the material. Unlike conventional ASTM test methods, this test will provide results on the crushing characteristic of the material which is the basis on how EMAS performances are predicted in the deceleration of an overrunning aircraft.

The FST method is currently the only FAA-approved EMAS test method available. -KQ-

## Mead & Hunt Earns National Engineering Excellence Finalist Award for Work on the San Luis Obispo (CA) EMASMAX<sup>®</sup> Installation

Mead & Hunt's first award was the California State honor award, along with a national award nomination. Both honors came from the American Council of Engineering Companies (ACEC).

This was followed by an ACEC National Engineering Excellence Finalist Award, the crowning tribute to their fine work at San Luis Obispo County (CA) Regional Airport.

The airport contracted Mead & Hunt to design an 800-foot runway extension and Runway Safety Areas (RSAs) that met FAA standards. Initial project alternatives had been costly, environmentally challenging, and time-consuming.



The solution: EMASMAX beds at both ends of the primary air carrier runway. The reduced-length RSA allowed the runway extension installation in a severely limited space. The firm's foresight has provided a benchmark for airports facing similar challenges. -KQ/SK-

## St. Paul Downtown (MN) Airport & Engineering Firm (HNTB) Each Win Recognition for Roles in EMASMAX<sup>®</sup> Installation



St. Paul Downtown Installation

The installation of two EMAS arrestor beds at St. Paul Downtown Airport (Holman Field), MN in November of 2008 has resulted in engineering recognitions for both the airport and engineering firm, partners with Engineered Arresting Systems Corp. on the project.

The Minnesota Council of Airports Board of Directors bestowed the "Airport Project of the Year Award" in the "Intermediate Airport" category to St. Paul Downtown for "contribution of time and effort in an exemplary manner to further the growth and development of aviation in Minnesota."

The American Council of Engineering Companies (ACEC) of Minnesota gave the HNTB Corporation's Minneapolis Office an Honor Award for their engineering efforts in improving the safety area by the installation of EMAS beds on each end of Runway 14/32 at St. Paul Downtown Airport.

Geographical restrictions for overrun areas resulted in the installation of the EMAS beds. The airport and engineers also had to address challenges related to the fact that the system was being installed in an area that was situated on a flood plain. -KQ & SK-

# EMASMAX® Summer Conference Schedule In Overdrive: AAAE (Phila.), ACI-Europe (Manchester), Paris - All in the Same Week!



The EMASMAX Airport Sales staff launched a busy period of conference activity in June, exhibiting concurrently at three important aviation conferences.

Activity launched on June 14th at the 81st Annual AAEE (American Association of Airport Executives) Conference & Exhibition, Philadelphia, PA, less than 20 miles away from ESCO-Zodiac Aerospace's Logan Township, NJ facility.

Additional sales personnel crossed the Atlantic to exhibit at the 19th ACI (Airports Council International) Europe Annual Exhibition, Manchester, UK. (6/15-17).

ESCO-ZA also sent a team to participate in the Zodiac Aerospace group exhibit at the 100th Paris Air Show (6/15-21), the world's premier bi-annual aerospace event.

These conferences and related activities provide an opportunity to uniquely showcase product developments and establish "live" dialogue with customers.

Current subjects of interest: growth in number of system installations at airports, successful product performance, use of EMASMAX to gain runway length, and lower-strength EMASMAX. -SK-

EMASMAX® U.S. Conference Schedule for Fall 2009 • = EMASMAX Speaker Event			
SEPT.	9/9-11: 6th Annual FAA Int'l Aviation Safety Forum Washington, DC	OCT.	10/24-26: CAPA Safety Conference Dallas, TX
	9/13-17: SWIFT 2009, Ontario, Canada		10/29-11/1: ATA Convention Nashville, TN
OCT.	9/30-10/2: NYAMA Fall Conference, Syracuse, NY	NOV.	11/09: ACC National Conference Las Vegas, NV
	10/5-7: FAA Southwest Conference, Dallas, TX		• 11/4-6: FAA Great Lakes Conference Schaumburg, IL
	• 10/6-8: ACPA Int'l Winter Ops, Toronto, Canada	DEC.	12/1-3: FAA Int'l Runway Safety Summit Washington, DC
10/11-14: ACI-NA 18th Ann'l Conf. & Exh., Austin, TX			
	10/14-16: FAA Southern Airport Safety, Charleston, SC		
	• 10/18-20: AAEE/IAAE Central Europe/NA Airport Issues Conference, Dubrovnik, Croatia		
	10/20-22: NBAA, Orlando, FL (as p/o Zodiac Aero exhibit)		

## Anniversaries: Two Significant EMAS Arrestments



Greenville, July 17, 2006

*July 17, 2006, Greenville, SC:* A Dassault Falcon 900 business jet had a brake system malfunction and exited the runway at an estimated speed of 30+ Knots at the Greenville Downtown Airport. 2 crew members, 3 passengers: no injuries; no significant damage to aircraft. This was the first EMAS system (designed/installed in 2003) for general aviation/small business jet protection. -SK-

*July 18th, 2008, Chicago, IL:* At 7:00 PM, Mexicana Airlines Flight 802, Airbus A320 approximately 145 people, attempted to land on Runway 4R at O'Hare International Airport. The aircraft overran the runway. Despite rainy weather/strong crosswinds, the aircraft was safely stopped by EMASMAX arrestor bed, departure end of runway. The aircraft contained the largest number of passengers on board an aircraft saved by an EMASMAX system. -SK-

# EMASMAX<sup>®</sup> Featured on Discovery Channel Series

## “Crashes That Changed Flying” Includes Testimonials & On-site Logan Footage

Engineered Arresting Systems Corporation and the EMASMAX product is featured on the Discovery Channel’s “Crashes That Changed Flying” television series (Episode 2, one hour).

In a quarter-hour segment about commercial aircraft overruns, EMASMAX is shown as the solution for making airports safer by providing overrun protection.



Wall-to-Wall’s production crew & with ESCO-ZA Logan personnel

The segment was produced by Wall to Wall Media (UK), whose production crew visited ESCO-ZA’s Logan facility in December for a controlled shoot of production footage, product demonstrations and interviews.

Wall to Wall also utilized ESCO-ZA-provided videos, broadcast media archives and interviews with commercial aviation industry experts such as John Goglia (former NTSB member) and Pam Phillips (Port Authority of NY & NJ).

The evidence and testimonials shown in this documentary shines a very positive light on ESCO-Zodiac Aerospace’s history, products and expertise, especially EMASMAX.

The broadcast debut was April 21. The episode and series continues to be in rotation on the Discovery Channel schedule. Details are in your local listings or the Discovery channel web site. -SK-

## Employees Support CHOP at Philadelphia Triathlon 2009!

On June 27 and 28, at the Philadelphia Insurance Triathlon, seventy-four employees from Engineered Arresting Systems Corporation performed volunteer work as part of the company’s fifth annual community service effort on behalf of the Cancer Center of the Children’s Hospital of Philadelphia (CHOP).



ESCO-ZA’s June 27 CHOP Volunteers at the Philadelphia Triathlon

ESCO-ZA also made a cash contribution of \$ 9,763.00.

Volunteers provided on-course routing/directions, guidance/safety instructions, distributed bottled water/liquids, food service, awarded medals to athletes as they finished, and much more.

Ten individuals from the volunteer group also competed in the triathlon events. Three 3-person teams completed the Sprint triathlon relay event (.9K swim, 24K bike, 5K run). Dan Edwards, VP of IMRO Services at ESCO-ZA, and two guest athletes formed a 3-man Olympic relay team (1.5K swim, 40K bike, 10K run) that placed 1st out of 54 participants.

This is one of the largest annual ESCO-ZA community service efforts. Employee participation and contributions growing every year. -SK-

Engineered Arresting Systems Corporation’s partnership with the FAA in the mid-1990s led to the development of the engineered material arresting system known today as EMASMAX. Composed of lightweight cellular concrete, EMASMAX installations are placed at the ends of commercial airport runways to safely decelerate aircraft in overrun situations.

Please forward comments, suggestions and article ideas to the editor: [Stan.Koczkodaj@zodiacaerospace.com](mailto:Stan.Koczkodaj@zodiacaerospace.com)

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