



# Centrifugal Compressors For Oil-Free Air

## VOYAGER

SPECIAL FEATURE NEWSLETTER—October 2006

### FS-Elliott Celebrates Open House - 06 October 2006



Pictured above from left to right: Ron Stewart, CEO of FS-Elliott, Keith Macurdy, CFO of FS-Elliott, and Daniel Gundersen, representing Pennsylvania Governor, Ed Rendell presented FS-Elliott with a check for \$327,700 during the Open House ceremony.

FS-Elliott's Open House was attended by more than 120 guests. Included were customers, key suppliers, financial institutions, local and state officials. The opening session was held in the Atrium area of the Mellon Road facility.

Addison Kelley, Ron Stewart, Pat Mohan and Keith Macurdy provided the audience with an overview of FS-Elliott's first three years of operation. The theme of their message was, since the business was purchased from the Elliott Company in October 2003, we have moved the entire operation to Export, PA while the business volume has nearly tripled.

Attendees from Fu Sheng were H.T. Lee (Chairman), L.C. Lee (Executive Vice President), Robert Lee (Manager, USA) and Andrew Juang (Assistant Vice President). Chairman, H.T. Lee spoke to the audience and expressed his pleasure with the events of the past three years. Fu Sheng has demonstrated their confidence by providing the necessary capital and research and development funding to empower our employees to succeed.

Welcome to  
FS-Elliott



Exterior of the newly built test facility at the Mellon site

FS-Elliott...  
building on  
the success of  
the past and  
investing in  
the promise  
of the future.



Just completed air end test area ready for operation

The new test facility at the Mellon Road site is the most recent testament of this commitment. Daniel Gundersen, representing Pennsylvania Governor, Ed Rendell presented FS-Elliott with a check for \$327,700 during Open House ceremony as part of the state's Opportunity Grant and Job Creation programs. The financial award was a combination of grant money and tax credits.

The visitors were given a tour of FS-Elliott's Export, Pennsylvania site. This site includes two modern facilities with more than 200,000 square feet of manufacturing and office space situated on 30+ acres of land. The dedication of the new 15,000 square foot state-of-the-art test facility was the highlight of the shop tour. After the facility tour, the Open House event was concluded with a relaxing outdoor barbeque lunch under the huge tent that was setup on the front lawn.



FS-Elliott's Open House opening ceremony was held in the Atrium area of our Mellon Road facility.



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### *FS-Elliott's New Test Facility Is Up and Running*



*Pictured are the control cabinets located at each test stand.*



*The three variable frequency drives allow us to test 50 and 60 HZ units.*



*Three complete compressor units can be tested at the same time.*

The new FS-Elliott test facility was dedicated at the October 6, 2006 Open House event. This modern facility includes the most progressive test equipment, instrumentation and control systems that are commercially available.

The eight test stands and staging areas are spaciouly situated into nearly 16,000 square feet. Complete compressor packages as well as airends can be accommodated in the amazingly efficient and flexible facility.

Electrical capabilities include 50 and 60 hertz units with motor drivers up to 4000 horsepower and 6600 Volts. By using the Kirk Key Interlock System, we can insure that the entire electrical system is safe. Another unique feature is the automation system that enables the simultaneous testing of three complete compressor units.



*The data acquisition system collects the mechanical and aerodynamic information for analysis and storage.*

#### Testing Cell Specifications:

- 8 Test Cells
- Variable Speed Drives (50 & 60 Hz):
  - 4,000 HP \ 1,000 HP \ 800 HP
- Testing Capabilities:
  - 200 HP to 4,000 HP

The testing is controlled from either the main drive control system that is situated in the control room or from each test stand control cabinet.

This automated system starts the oil pump, sets all the valves in the proper position, and starts the compressor. All of the compressor package safety systems are automatically monitored and can initiate alarms and trips should such actions be required.

A state-of-the-art data acquisition system collects the mechanical and aerodynamic information for analysis and storage. This system processes the data to ensure the compressor is achieving or exceeding all the customer's mechanical and aerodynamic requirements. The results are displayed in user friendly formats.